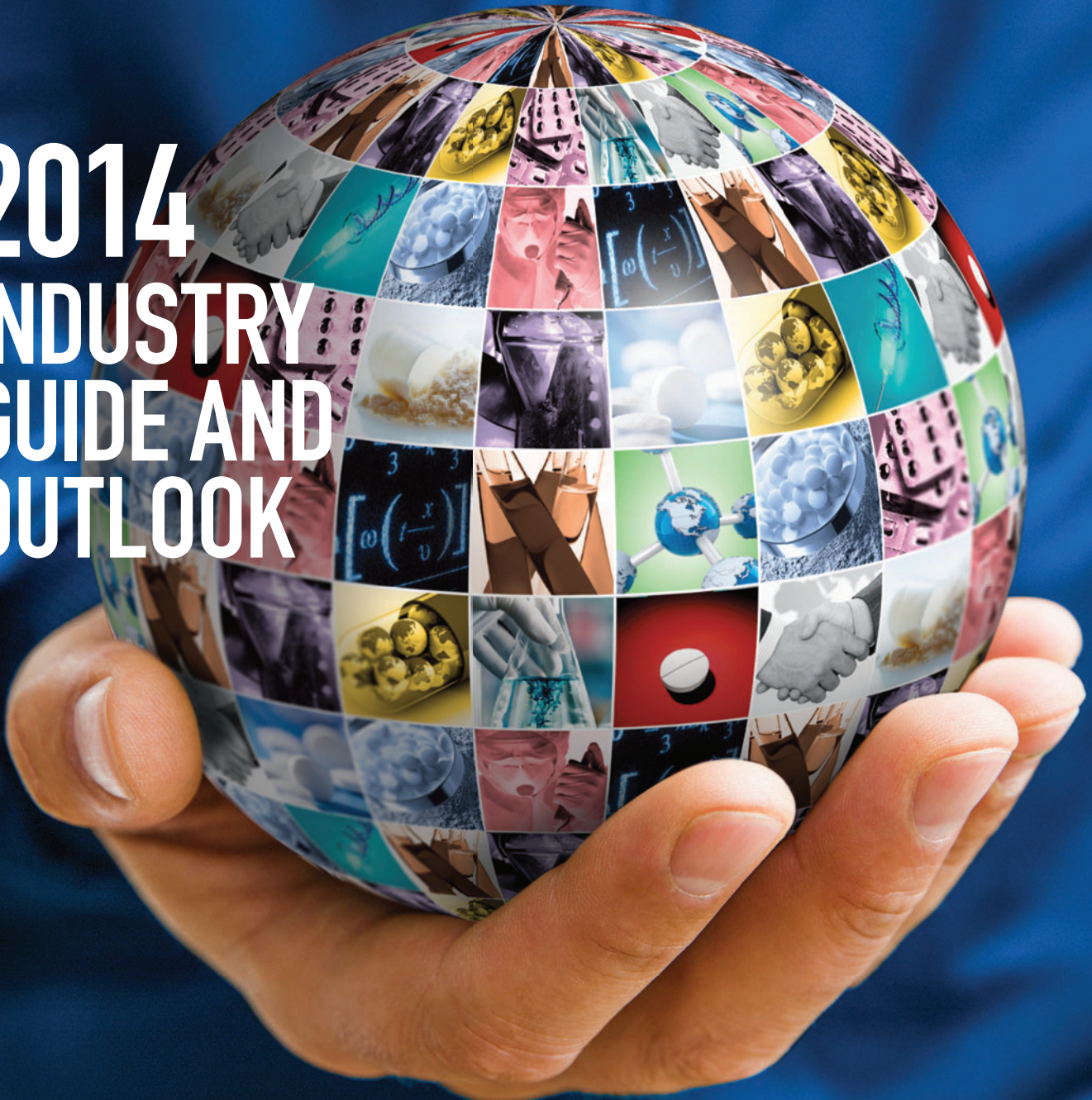


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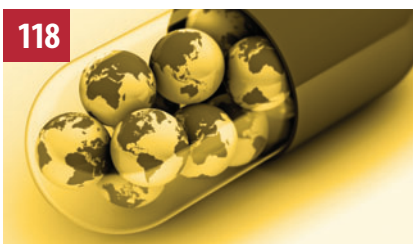
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Recent economic times have taught buyers to exercise caution when making purchases. The more information you have about proposed purchases, the more informed your decision can be. *Pharmaceutical Technology* invited sponsors of this Industry Guide and Outlook to share their perspectives on industry dynamics, regulatory challenges, and technology advances. You can find their perspectives on the bio/pharma market and trends in the Thought Leaders section of this 2014 Industry Guide and Outlook, beginning on page 168.

This issue also features our annual buyers guide, a comprehensive list of suppliers of chemicals, raw materials, intermediates and excipients; manufacturing equipment and supplies; cleanroom equipment; packaging equipment and supplies; laboratory equipment and supplies; information technologies; and outsourcing services. The Elite Suppliers section, featuring company descriptions, begins on page 188. A Regulatory Anthology lists regulatory and standards organizations from around the globe; upcoming events; and a reference list to new FDA, EMA, and ICH guidance documents and guidelines issued in the past 12 months.

We hope this Industry Guide and Outlook provides you with the sources you need for procuring vital technologies and services, and provides insight into emerging trends and industry growth. **PT**

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Alfa Chem

ACETAMINOPHEN (N-ACETYL-P-AMINOPHENOL)
AIC
Alfa Chem
Anmar Intl Ltd
Asiamerica Ingredients
Barrington Nutritionals
Boscogen
CellMark USA, LLC,
Chemicals
LGM Pharma
Parchem - Fine &
Specialty Chemicals
Pharmsolv LLC
Ruger Chemical Co
Spectrum Chemical Mfg Corp
SPI Pharma

ACETANILIDE
Alfa Chem
CellMark USA, LLC,
Chemicals
Spectrum Chemical Mfg Corp

ACETANISOLE, P-METHOXY-ACETOPHENONE
Alfa Chem
Asiamerica Ingredients
INDOFINE Chemical Co

ACETIC ACID
Alfa Chem
Asiamerica Ingredients
Avantor Performance
Materials
BASF Corp, G-ENP
Brenntag North America
Eastman Chemical Co
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ACETIC ANHYDRIDE
Alfa Chem
Brenntag North America
Eastman Chemical Co
Parchem - Fine &
Specialty Chemicals
Spectrum Chemical Mfg Corp

ACETOIN
Alfa Chem
Spectrum Chemical Mfg Corp

ACETOIN BLENDS
Alfa Chem

ACETONE
Avantor Performance
Materials

ACETONITRILE
Alfa Chem
Avantor Performance
Materials
Parchem - Fine &
Specialty Chemicals
Spectrum Chemical Mfg Corp

ACETOPHENETIDIN (PHENACETIN)
Alfa Chem
LGM Pharma
Scandinavian Formulas

ACETOPHENONE
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

ACETYL ACETONE
Alfa Chem
Spectrum Chemical Mfg Corp
Wacker Chemical Corp

ACETYL CHLORIDE
Alfa Chem
Arkema
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ACETYLATED MONOGLYCERIDES
Adept Solutions, World
Headquarters
Alfa Chem

ACETYLENEDI-CARBOXYLIC ACID DIMETHYLESTER
Alfa Chem
INDOFINE Chemical Co
Lonza

ACETYLENEDI-CARBOXYLIC ACID MONOPOTASSIUM SALT
Alfa Chem

ACETYLDRAZINE
Alfa Chem

ACETYLMETHIONINE
Alfa Chem

ACETYLSALICYLIC ACID (ASPIRIN)
AIC

ACETYLTRIBUTYL CITRATE
Alfa Chem
Mutchler Pharmaceutical
Ingredients

ACETYLTRIETHYL CITRATE
Alfa Chem
Mutchler Pharmaceutical
Ingredients

ACID CHLORIDES
FAR Chemical

ACID FUCHSIN
Alfa Chem

ACID NEUTRALIZERS
Adept Solutions, World
Headquarters
Alfa Chem
Arkema
Brenntag North America
Spectrum Chemical Mfg Corp

ACRIFLAVINE
Alfa Chem

ADIPIC ACID
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AGAR
Adept Solutions, World
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Alfa Chem
Electron Microscopy
Sciences
Gumix Intl
Marcor Development Corp
Pangaea Sciences
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALANINE
Adept Solutions, World
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Alfa Chem
Anmar Intl Ltd
Asiamerica Ingredients
Brenntag North America
CellMark USA, LLC,
Chemicals
Evonik Corp, Health
Care
Richman Chemical
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALBENDAZOLE
Boscogen

ALBUMIN
Adept Solutions, World
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Kraeber & Co GmbH
Lampire Biological Labs
Pangaea Sciences
Spectrum Chemical Mfg Corp

ALBUMIN HYDROLYSATE
Adept Solutions, World
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Alfa Chem
Marcor
Development Corp

ALBUTEROL
Alfa Chem
LGM Pharma

Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALBUTEROL SULFATE
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

ALCOHOLS
Avantor Performance
Materials
Croda, Health Care
Grain Processing Corp

ALCOHOLS, ETHOXYLATED
ABITEC Corp
Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Croda, Health Care
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALCOHOLS, PROPOXYLATED
ABITEC Corp
Adept Solutions, World
Headquarters
Alfa Chem
Croda, Health Care
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALDEHYDES
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Eastman Chemical Co
Electron Microscopy
Sciences
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALFUZOSIN HCl
Boscogen
LGM Pharma

ALGIN
Adept Solutions, World
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FMC Corp, FMC
BioPolymer
Spectrum Chemical Mfg Corp

ALGINATES
AIC
Evonik Corp, Health Care

ALGINIC ACID
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
FMC Corp, FMC
BioPolymer
JRS Pharma GmbH &
Co KG
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALIZARINE POWDER
Alfa Chem
Spectrum Chemical Mfg Corp

ALIZARINE RED
Alfa Chem
Spectrum Chemical Mfg Corp

ALKALINE PHOSPHATASE
Alfa Chem
Spectrum Chemical Mfg Corp

ALKANOLAMIDES
ABITEC Corp
Albemarle Corp
Alfa Chem
Croda, Health Care
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALKYL ARYL SULFONATES
Albemarle Corp
Alfa Chem
Ruger Chemical Co

ALKYL DIMETHYLAMINE
Albemarle Corp
Alfa Chem
Spectrum Chemical Mfg Corp

ALLANTOIN
AIC
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALLYL ESTERS
Albemarle Corp
Alfa Chem
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ALLYL ISOTHIOCYANATE (VOLATILE OIL OF MUSTARD)
Alfa Chem

ALMOND OIL
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Headquarters
Alfa Chem
Arista Industries
Brenntag North America
Jedwards Intl
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALOE
Adept Solutions, World
Headquarters
Alfa Chem
Jedwards Intl
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp
Terry Labs LLC

ALPRAZOLAM
Alfa Chem
LGM Pharma
Spectrum Chemical Mfg Corp

ALUM, AMMONIUM AIC
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUM, POTASSIUM AIC
Alfa Chem
Avantor Performance Materials
Scandinavian Formulas
Spectrum Chemical Mfg Corp
Vac-U-Max

ALUMINIUM ACETATE
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM ALKYLs
Albemarle Corp
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM BROMIDE
Albemarle Corp
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM CHLORIDE
Albemarle Corp
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM CHLORIDE, HYDROUS
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM CHLOROXYDRATE
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM FORMATE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM HYDROXIDE
AIC
Albemarle Corp
Alfa Chem
Brenntag Specialties
Generichem Corp
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM HYDROXIDE/MAGNESIUM CARBONATE CO-DRIED GEL
AIC
Alfa Chem
Brenntag Specialties
Generichem Corp
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM HYDROXIDE/MAGNESIUM HYDROXIDE CO-DRIED GEL
AIC
Alfa Chem
Brenntag Specialties
Generichem Corp
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM HYDROXIDE/MAGNESIUM HYDROXIDE FLUID GEL
AIC
Alfa Chem
Generichem Corp
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM LACTATE
Alfa Chem
Generichem Corp
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM METAPHOSPHATE
Alfa Chem
Scandinavian Formulas

ALUMINIUM MONOSTEARATE
Alfa Chem
Parchem - Fine & Specialty Chemicals
PlusPharma
Scandinavian Formulas

ALUMINIUM NITRATE
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Scandinavian Formulas

ALUMINIUM OXIDE
Albemarle Corp
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Brenntag North America
Brenntag Specialties
Ruger Chemical Co
Scandinavian Formulas

ALUMINIUM PHENOLSULFONATE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM PHOSPHATE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM SILICATE
AIC
Alfa Chem
Charles B Chrystal
Spectrum Chemical Mfg Corp

ALUMINIUM SULFATE
Alfa Chem
Avantor Performance Materials
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM-ZIRCONIUM TETRACHLORO-HYDREX-GLYCINE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALUMINIUM-ZIRCONIUM TRICHLORO-HYDREX-GLYCINE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

ALVERINE CITRATE
Alfa Chem
Spectrum Chemical Mfg Corp

AMANTADINE HCL
Alfa Chem
Asiameica Ingredients
LGM Pharma
Parchem - Fine & Specialty Chemicals
Spectrum Chemical Mfg Corp

AMBROXOL
Adept Solutions, World Headquarters
Alfa Chem
LGM Pharma
Parchem - Fine & Specialty Chemicals
Spectrum Chemical Mfg Corp

AMINACRINE HCL
Alfa Chem

AMINO ACID CHLORIDES
Alfa Chem
Spectrum Chemical Mfg Corp

AMINO ACIDS (SEE ALSO SPECIFIC AMINO ACIDS)
Adept Solutions, World Headquarters
Agilent Technologies
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
Charles Bowman & Co
Evonik Corp, Health Care
Generichem Corp
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Alfa Chem
Evonik Corp, Health Care
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp

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Alfa Chem
Bioliink Life Sciences
Evonik Corp, Health Care
INDOFINE Chemical Co
Scandinavian Formulas

AMINO ACIDS, T-BUTYLOXYCARBONYL
Evonik Corp, Health Care

AMINO CHLONIDINE
Alfa Chem
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMINO DEXTRANS
Alfa Chem
Scandinavian Formulas

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Alfa Aesar, A Johnson Matthey Co
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMINOANTIPYRINE
Alfa Chem
Kraeber & Co GmbH
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMINOPHYLLINE
Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
LGM Pharma
Ruger Chemical Co

AMIODARONE
Alfa Chem
Asiameica Ingredients
Isochem
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

AMITRIPTYLINE HCL
Boscogen

AMMONIA
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Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIATED GLYCERYRHIZIN
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Asiameica Ingredients

AMMONIUM ACETATE
AIC
Alfa Chem

Avantor Performance Materials
Spectrum Chemical Mfg Corp

AMMONIUM ALGINATE
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMMONIUM BICARBONATE
Alfa Chem
Brenntag North America
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM BISULFITE
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMMONIUM BROMIDE
AIC
Albemarle Corp
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMMONIUM CARBONATE
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMMONIUM CHLORIDE
Avantor Performance Materials

AMMONIUM CITRATE
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Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

AMMONIUM DICHROMATE
Alfa Chem
Spectrum Chemical Mfg Corp

AMMONIUM FORMATE
Alfa Chem
Spectrum Chemical Mfg Corp

AMMONIUM HEPARIN
Alfa Chem
Kraeber & Co GmbH
Spectrum Chemical Mfg Corp

AMMONIUM IODIDE
Alfa Chem
Spectrum Chemical Mfg Corp

AMMONIUM LACTATE
Alfa Chem
Genericher Corp
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM LAURYL ETHER SULFATE
Alfa Chem
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM LAURYL SULFATE
Alfa Chem
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM OXALATE
AIC
Alfa Chem
CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Spectrum Chemical Mfg Corp

AMMONIUM PHOSPHATE, DIBASIC
AIC
Alfa Chem
Avantor Performance Materials
Brenntag North America
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM PHOSPHATE, MONOBASIC
AIC
Alfa Chem
Avantor Performance Materials
Brenntag North America
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM SALICYLATE
Alfa Chem
Spectrum Chemical Mfg Corp

AMMONIUM SULFAMATE
AIC
Alfa Chem
Spectrum Chemical Mfg Corp

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Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Avantor Performance Materials
Brenntag North America
Jost Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM SULFITE
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Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM TARTRATE
Alfa Chem
Spectrum Chemical Mfg Corp

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Alfa Chem
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM THIOSULFATE
Alfa Chem
Ruger Chemical Co
Spectrum Chemical Mfg Corp

AMMONIUM VALERATE
Alfa Chem

AMOBARBITAL
Alfa Chem

AMODIAQUIN
Alfa Chem
Spectrum Chemical Mfg Corp
XenoTech

AMOXAPINE
Alfa Chem
LGM Pharma
Spectrum Chemical Mfg Corp

AMOXICILLIN
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Alfa Chem
LGM Pharma
Spectrum Chemical Mfg Corp

AMPHETAMINE SULFATE
Alfa Chem
Asiameica Ingredients
Spectrum Chemical Mfg Corp

AMPICILLIN SODIUM
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LGM Pharma
Parchem - Fine & Specialty Chemicals
Spectrum Chemical Mfg Corp

AMRINONE
Alfa Chem
Spectrum Chemical Mfg Corp

AMYL ESTERS
Alfa Chem
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp

AMYL NITRITE
FAR Chemical

AMYRIS OIL
Alfa Chem
Asiameica Ingredients
Spectrum Chemical Mfg Corp

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Alfa Chem

ANGELICA
Ruger Chemical Co
Spectrum Chemical Mfg Corp

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Albemarle Corp
Alfa Chem
Spectrum Chemical Mfg Corp

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Ruger Chemical Co
Spectrum Chemical Mfg Corp

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INDOFINE Chemical Co

ANISIC ALDEHYDE, TECHNICAL
Alfa Chem
Asiameica Ingredients
INDOFINE Chemical Co

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Alfa Chem
INDOFINE Chemical Co
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ANISOLE, TECHNICAL
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Alfa Chem
Asiameica Ingredients
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp

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Alfa Chem
LGM Pharma
Spectrum Chemical Mfg Corp

ANTAZOLINE PHOSPHATE
Alfa Chem
Spectrum Chemical Mfg Corp

ANTHRALIN
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LGM Pharma
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ANTHRANILIMIDE
Alfa Chem

ANTIBIOTICS (SEE ALSO SPECIFIC ANTIBIOTICS)
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Alfa Chem
LGM Pharma
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ANTIBODIES
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Lampire Biological Labs
Novasep
Scripps Labs
XenoTech

ANTICAKING AGENTS
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Albemarle Corp
Alfa Chem
Beneo-Palatinit GmbH
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Brenntag Specialties
Charles B Chrystal
Grain Processing Corp
Ruger Chemical Co
Siovation LLC

ANTIFOAM AGENTS
ABITEC Corp

ANTIFOAM AGENTS, FERMENTATION
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Brenntag North America
Siovation LLC
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Albemarle Corp
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Soltec Ventures
Spectrum Chemical Mfg Corp

ANTIMONY POTASSIUM TARTRATE (TARTAR EMETIC)
AIC
Alfa Chem
CellMark USA, LLC, Chemicals
Spectrum Chemical Mfg Corp

ANTIOXIDANTS
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Arkema
Brenntag North America
Charles Bowman & Co
DSM Nutritional Products LLC
Eastman Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

ANTISERA TO HUMAN PROTEINS
Alfa Chem
Scripps Labs

APOMORPHINE HCL
Alfa Chem
Spectrum Chemical Mfg Corp

APRAMYCIN
Alfa Chem
Spectrum Chemical
Mfg Corp

APROTININ
Kraeber & Co GmbH

**AQUEOUS
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DISPERSION**
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Colorcon

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Alfa Chem
Anmar Intl Ltd
Arkema
Asiameica Ingredients
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BASF Corp, G-ENP
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Charles Bowman & Co
DSM Nutritional
Products LLC
Helm New York
KIC Chemicals
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Mfg Corp
Suzhou-Chem

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Mfg Corp
Suzhou-Chem

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Ruger Chemical Co
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Mfg Corp

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Alfa Chem

ATORVASTATIN
Alfa Chem
Hetero, Custom
Pharmaceutical
Services
Spectrum Chemical
Mfg Corp

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Boscofen

ATROPINE SULFATE
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Boscofen
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Mfg Corp

ATTAPULGITE
Spectrum Chemical
Mfg Corp

AURANOFIN
Alfa Chem
Spectrum Chemical
Mfg Corp

AZATHIOPRINE
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Mfg Corp

AZITHROMYCIN
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Pharmaceutical
Services

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Spectrum Chemical
Mfg Corp

BACITRACIN
AIC
Alfa Chem
Napp Technologies LLC
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Mfg Corp

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Alfa Chem
Asiameica Ingredients
Napp Technologies LLC
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Scandinavian Formulas
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Mfg Corp

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Parchem - Fine &
Specialty Chemicals
Spectrum Chemical
Mfg Corp

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Alfa Chem
Napp Technologies LLC
Ruger Chemical Co

BALSAM PERU
Alfa Chem
Pangaea Sciences
Ruger Chemical Co

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Mfg Corp

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Spectrum Chemical
Mfg Corp

BARIUM ACETATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

BARIUM FLUORIDE
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Matthey Co
Alfa Chem
Arkema

Scandinavian Formulas
Soltec Ventures
Spectrum Chemical
Mfg Corp

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Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Scandinavian Formulas
Soltec Ventures
Spectrum Chemical
Mfg Corp

BARIUM NITRATE
Alfa Chem
Scandinavian Formulas
Soltec Ventures
Spectrum Chemical
Mfg Corp

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AIC
Alfa Chem
Arkema
Brenntag Specialties
Scandinavian Formulas

BASIL OIL
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Jedwards Intl
Ruger Chemical Co
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Spectrum Chemical
Mfg Corp

BAY OIL
Alfa Chem
Arista Industries
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

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DIPROPIONATE**
Alfa Chem
Spectrum Chemical
Mfg Corp

**BEEF MARROW
POWDER**
American Labs
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Brenntag North America
Brenntag Specialties
Croda, Health Care
Jedwards Intl
Jet Pulverizer Co
Mutchler

Pharmaceutical
Ingredients
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Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Strahl & Pitsch

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Brenntag North America
Brenntag Specialties
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas
Strahl & Pitsch

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Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

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THIAZIDE**
Spectrum Chemical
Mfg Corp

BENFLUOREX
Spectrum Chemical
Mfg Corp

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INDOFINE Chemical Co

BENZALDEHYDE
Alfa Chem
Arkema
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Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

**BENZALKONIUM
CHLORIDE**
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Lonza
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

BENZALPHTHALIDE
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

BENZHYDROL
Spectrum Chemical
Mfg Corp

**BENZHYDRYL
CHLORIDE**
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Chemicals
Spectrum Chemical
Mfg Corp

BENZILIC ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Spectrum Chemical
Mfg Corp

BENZIMIDAZOLE
Spectrum Chemical
Mfg Corp

BENZOATE
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

**BENZOFURAZAN
1-OXIDE**
Asiameica Ingredients

BENZOIC ACID
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
CellMark USA, LLC,
Chemicals
KIC Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

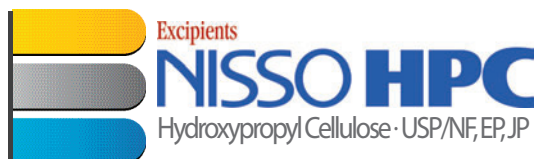
BENZONATATE
Albemarle Corp
Alfa Chem
BASF Corp, G-ENP

**BENZOTRIFLUORIDE
DERIVATIVES**
Kingchem LLC

BENZOYL PEROXIDE
Alfa Chem
Arkema
Asiameica Ingredients
Brenntag North America
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**BENZTROPINE
MESYLATE**
Alfa Chem
Spectrum Chemical
Mfg Corp

BENZYL ACETATE
Alfa Chem
Asiameica Ingredients



~ Special Low Viscosity HPC Grades for Application Advantages ~

	NISSO HPC	SSL	SL	L
	Viscosity mPa·s @ 20°C/2%aq	2.0 – 2.9	3.0 – 5.9	6.0 – 10.0
	Molecular Weight/GPC method	~ 40,000 ~	~ 100,000 ~	~ 140,000 ~
Availability	Regular Powder (40 mesh)	✓	✓	✓
	Fine Powder (100 mesh)		✓	✓
	Super Fine Powder (330 mesh)	✓		
Application	High Shear Mixer Granulation	—————		
	Fluidized Bed Granulation	—————		
	Dry Granulation Direct Compression	———		
	Orally Disintegrating Tablet	———		
	Drug Layering on Multi-Unit Particle	—————		
	Solubility Enhancement	—————		



www.nissoexcipients.com

Nippon Soda Co., Ltd, Tokyo, Japan: info@nippon-soda.co.jp
Nisso America Inc., New York USA: info@nissoamerica.com
Nisso Chemical Europe GmbH, Dusseldorf: info@nisso-chem.de

For vendor contact information, see Company Directory section.

CellMark USA, LLC,
Chemicals
Helm New York
INDOFINE Chemical Co
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BENZYL ALCOHOL
Alfa Chem
Arkema
Avantor Performance
Materials
Brenntag North America
CellMark USA, LLC,
Chemicals
INDOFINE Chemical Co
Ruger Chemical Co
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BENZYL BENZOATE
Alfa Chem
Asiameica Ingredients
Brenntag North America
Helm New York
INDOFINE Chemical Co
Ruger Chemical Co
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BENZYL CHLORIDE
Alfa Chem
Arkema
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BENZYL CINNAMATE
Asiameica Ingredients
INDOFINE Chemical Co
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BENZYL CYANIDE
Arkema
INDOFINE Chemical Co
Scandinavian Formulas

**BENZYL METHYL
KETONE**
Alfa Chem
Asiameica Ingredients
INDOFINE Chemical Co
Scandinavian Formulas

BENZYL SUCCINATE
Alfa Chem
Asiameica Ingredients
INDOFINE Chemical Co
Scandinavian Formulas

BENZYL VALERATE
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas

**BENZYLACETONE,
4-PHENYL-2-
BUTANONE**
INDOFINE Chemical Co
Scandinavian Formulas

**BENZYLIDENE
ACETONE**
Scandinavian Formulas

BERGAMOT OIL
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BETAINE HCL
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
**Spectrum Chemical
Mfg Corp**

BETAMETHASONE
Alfa Chem
Parchem - Fine &
Specialty Chemicals

**BETAMETHASONE
DERIVATIVES**
Alfa Chem
Parchem - Fine &
Specialty Chemicals

**BETHANECHOL
CHLORIDE**
BASF Corp, G-ENP

BILE ACIDS
Marcor
Development Corp

BIOCIDES
Albemarle Corp
Alfa Chem
Arkema
Ruger Chemical Co

BIOTIN
Adept Solutions, World
Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
DSM Nutritional
Products LLC
Generichem Corp
Helm New York
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Soltec Ventures
Suzhou-Chem

**BIS
(TRIMETHYLSILYL)
ACETAMIDE**
CellMark USA, LLC,
Chemicals
Regis Technologies
Scandinavian Formulas

**BISMUTH
AMMONIUM
CITRATE**
AIC
Alfa Chem

BISMUTH OXIDE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

**BISMUTH
OXYCHLORIDE**
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients

BISMUTH SALTS
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Barrington Nutritionals

Boscogen
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

**BISMUTH
SUBNITRATE**
AIC
Alfa Chem
Barrington Nutritionals
CellMark USA, LLC,
Chemicals
Ruger Chemical Co

**BISMUTH
SUBSALICYLATE**
AIC
Alfa Chem
Barrington Nutritionals
CellMark USA, LLC,
Chemicals
Ruger Chemical Co

**BISMUTH
TRIBROMOPHENATE**
AIC
Alfa Chem
Jet Pulverizer Co

BISMUTH TRIOXIDE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

BIXIN
INDOFINE Chemical Co

BLOCKING AGENTS
Adept Solutions, World
Headquarters
Albemarle Corp
Electron Microscopy
Sciences
Lampire Biological Labs

BLOOD DERIVATIVES
Alfa Chem
Biologos
Kraeber & Co GmbH
Lampire Biological Labs
Pangaea Sciences
Worthington
Biochemical Corp

BORATES
Albemarle Corp
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas

BORAX
Alfa Chem
Arkema
Brenntag North America
Ruger Chemical Co

BORIC ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Electron Microscopy
Sciences
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

**BORON
TRIFLUORIDE AND
DERIVATIVES**
Arkema
Richman Chemical
Ruger Chemical Co
Scandinavian Formulas

BORON TRIOXIDE
Albemarle Corp
Alfa Chem
Scandinavian Formulas

**BOTANICAL
EXTRACTS**
Adept Solutions, World
Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

BOVINE ALBUMIN
Alfa Chem
Electron Microscopy
Sciences
Kraeber & Co GmbH
Lampire Biological Labs
Pangaea Sciences
Worthington
Biochemical Corp

BOVINE THROMBIN
Kraeber & Co GmbH

BROMINE
Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema

**BROMOETHYLAMINE
HYDROBROMIDE**
INDOFINE Chemical Co

BROMOFORM
Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co

**BROMPHENIRAMINE
MALEATE**
AIC
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Marcor
Development Corp
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

BROMTHYMOL BLUE
Asiameica Ingredients

BUCLIZINE
Asiameica Ingredients

BUCLIZINE HCL
Asiameica Ingredients
Parchem - Fine &
Specialty Chemicals

BUFLOMEDIL HCL
Isochem

BUPIVACAINE HCL
Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

**BUPRENORPHINE
HCL**
Scandinavian Formulas

BUSPIRONE HCL
Asiameica Ingredients

**BUTABARBITAL,
SODIUM, SALT**
Scandinavian Formulas

BUTALBITAL
Asiameica Ingredients
Napp Technologies LLC

BUTENEDIOL
Asiameica Ingredients

BUTYL ACETATE
Asiameica Ingredients
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

BUTYL BUTYRATE
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas

BUTYL CAPROATE
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas

BUTYL CINNAMATE
Asiameica Ingredients
INDOFINE Chemical Co
Scandinavian Formulas

BUTYL ETHERS
Ruger Chemical Co
Scandinavian Formulas

**BUTYL
ISOBUTYRATE**
Albemarle Corp
Alfa Chem
Scandinavian Formulas

BUTYL LACTATE
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

BUTYL PROPIONATE
Alfa Chem

**BUTYL
UNDECYLENATE**
Scandinavian Formulas

**BUTYLATED
HYDROXYANISOLE**
Brenntag North America
Eastman Chemical Co
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

**BUTYLPARABEN
(BUTYL-P-HYDROXY-
BENZOATE)**
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co

BUTYRATE
Eastman Chemical Co
Scandinavian Formulas

**BUTYRIC
ANHYDRIDE**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Eastman Chemical Co

CADMIUM
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Soltec Ventures

CADMIUM NITRATE
Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas
Soltec Ventures

CAFFEINE
Adept Solutions, World
Headquarters
AIC

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
CellMark USA, LLC,
Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Pharmsolv LLC
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem

**CAFFEINE AND
SODIUM BENZOATE**
Adept Solutions, World
Headquarters
Asiameica Ingredients
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

**CAJEPUT OIL
(OIL OF CAJEPUT)**
Scandinavian Formulas

**CALAMINE (ZINC
OXIDE)**
Brenntag Specialties
Ruger Chemical Co

CALCIUM ACETATE
AIC

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Richman Chemical
Ruger Chemical Co

**CALCIUM ACID
PYROPHOSPHATE**
Brenntag North America

CALCIUM ALGINATE
Alfa Chem
Brenntag North America
FMC Corp, FMC
BioPolymer

**CALCIUM AMINO
ACID CHELATE**
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp
Scandinavian Formulas

CALCIUM BENZOATE

Alfa Chem
Asiameica Ingredients
Brenntag North America
Scandinavian Formulas

CALCIUM BOROGLUCONATE

Asiameica Ingredients
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

CALCIUM BROMIDE

Albemarle Corp
Alfa Chem
Scandinavian Formulas

CALCIUM CARBONATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance
Materials
Barrington Nutritionals
Biddle Sawyer Corp
Brenntag North America
Brenntag Specialties
Charles B Chrystal
Charles Bowman & Co
Generichem Corp
Jost Chemical Co
Mutchler Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
Specialty Minerals

CALCIUM CARBONATE, DIRECT-COMPRESSION

AIC
Biddle Sawyer Corp

CALCIUM CARBOXYMETHYL CELLULOSE

Asiameica Ingredients
Biddle Sawyer Corp
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

CALCIUM CHLORIDE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CALCIUM CITRATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Generichem Corp
Helm New York
Jost Chemical Co
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CALCIUM CYCLAMATE

Alfa Chem

CALCIUM D-SACCHARATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Marcor Development Corp

CALCIUM GLUCONATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Generichem Corp
Jost Chemical Co
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CALCIUM GLYCEROPHOSPHATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

CALCIUM GLYCINATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CALCIUM HEPARIN

Alfa Chem

CALCIUM HYDROXIDE

Jost Chemical Co

CALCIUM HYPOPHOSPHITE

Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals

CALCIUM IODATE

AIC
Alfa Chem

CALCIUM IODIDE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients

CALCIUM LACTATES

AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Generichem Corp
Jost Chemical Co
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

CALCIUM LEVLINATE

AIC
Alfa Chem

CALCIUM OROTATE

AIC

Alfa Chem
Asiameica Ingredients
Generichem Corp
Parchem - Fine &
Specialty Chemicals

CALCIUM PANTOTHENATE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
Helm New York

CALCIUM PEROXIDE

AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Scandinavian Formulas

CALCIUM PHOSPHATE

AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

CALCIUM PROPIONATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CALCIUM PYROPHOSPHATE

Brenntag North America
Ruger Chemical Co

CALCIUM SACCHARATE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem

CALCIUM SILICATE

Alfa Chem
Mutchler Pharmaceutical
Ingredients
Scandinavian Formulas

CALCIUM SORBATE

Adept Solutions, World
Headquarters
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

CALCIUM STEARATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Asiameica Ingredients
Brenntag Specialties
Generichem Corp
KIC Chemicals

Mutchler Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

CALCIUM STEAROYL LACTYLATE

Scandinavian Formulas

CALCIUM SULFATE DIRECT COMPRESSIBLE

Charles B Chrystal

CALCIUM SULFATE, ANHYDROUS

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag North America
Brenntag Specialties
Charles B Chrystal
Ruger Chemical Co
Scandinavian Formulas
WA Hammond Drierite
Co Ltd

CALCIUM THIOGLYCOLATE

Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

CAMPHOR

Alfa Chem
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CAMPHOR, SYNTHETIC

Alfa Chem
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas

CAMPHORSULFONIC ACID

Alfa Chem

CAMPTOTHECIN

Alfa Chem

CANANGA OIL

Jedwards Intl
Scandinavian Formulas

CAPRIC ACID (DECANOIC)

ABITEC Corp
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CAPROIC ACID (HEXANOIC)

ABITEC Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CAPRYL ALCOHOL (OCTANOL)

Ruger Chemical Co
Scandinavian Formulas

CAPRYLATE

ABITEC Corp
Napp Technologies LLC
Ruger Chemical Co
Scandinavian Formulas

CAPRYLIC ACID (OCTANOIC)

ABITEC Corp

CAPSAICIN

Alfa Chem
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
Richman Chemical
Ruger Chemical Co
Scandinavian Formulas

CAPTOPRIL

Alfa Chem
Boscogen
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

CARAMEL

Adept Solutions, World
Headquarters
Brenntag North
America
Ruger Chemical Co
Scandinavian Formulas

CARAWAY

Ruger Chemical Co
Scandinavian Formulas

CARBAMAZEPINE

Alfa Chem
BASF Corp, G-ENP
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

CARBENICILLIN INDANYL SODIUM

Alfa Chem

CARBETAPENTANE CITRATE

Napp Technologies LLC

CARBINOXARMINE MALEATE

CellMark USA, LLC,
Chemicals
Napp Technologies LLC
PlusPharma

CARBOMER

Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North
America
Lubrizol Advanced
Materials
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

CARBON DISULFIDE

Arkema
Ruger Chemical Co

CARBON TETRACHLORIDE

Arkema
Asiameica Ingredients
Ruger Chemical Co

CARBON, ACTIVATED (CHARCOAL, ACTIVATED)

Alfa Chem
Arkema
Asiameica Ingredients
Jacobi Carbons
NUCON Intl
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

CARBONATES

Avantor Performance
Materials

CARBOXYLIC ACIDS AND SALTS, PERFLUORINATED

Kingchem LLC

CARBOXYMETHYL-CELLULOSE SODIUM Blanver

Mutchler Pharmaceutical
Ingredients

CARDAMOM OIL, SEED

Alfa Chem
Scandinavian Formulas

CARISOPRODOL

BASF Corp, G-ENP
Isochem
Parchem - Fine &
Specialty Chemicals

CARMINE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Brenntag North America
Ruger Chemical Co
Sensient Pharmaceutical

CAROTENOID COLORS

AIC
Alfa Chem
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC

CARRAGEENAN

Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Brenntag Specialties
FMC Corp, FMC
BioPolymer
Gumix Intl
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

CASEIN

Adept Solutions, World
Headquarters
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

CASEIN HYDROLYSATE

Adept Solutions, World
Headquarters
Alfa Chem
American Labs
Kerry
Marcor Development Corp
Ruger Chemical Co
Scandinavian Formulas

CASEINATES

Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

CASSIA OIL

Arista Industries

CASTOR OILAlfa Chem
Arista Industries
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
CellMark USA, LLC,
Chemicals
Jedwards Intl
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CATALASE**Brenntag North America
Worthington
Biochemical Corp**CATECHOL**Alfa Chem
Ruger Chemical Co
Scandinavian Formulas**CEDARLEAF OIL**

Arista Industries

CEDARWOOD OIL

Jedwards Intl

CEFACTORAlfa Chem
LGM Pharma**CEFADROXIL**

Alfa Chem

CEFATRIAXONE

PlusPharma

CEFOTAXIMEAlfa Chem
PlusPharma**CEFUROXIME SODIUM**

PlusPharma

CELL CULTURE MEDIUMKraeber & Co GmbH
StemCell Technologies**CELLULOSE ACETATE BUTYRATE**

Eastman Chemical Co

CELLULOSE ACETATE PHTHALATEAIC
Eastman Chemical Co**CELLULOSE ESTERS**Brenntag North America
Eastman Chemical Co
Ruger Chemical Co**CELLULOSE ETHERS**Dow Pharma Solutions,
Dow Advanced
Materials
Kerry
Mutchler
Pharmaceutical
Ingredients**CELLULOSE TRIACETATE**

Eastman Chemical Co

CELLULOSE, ETHYL (DISPERSION)Brenntag North America
Colorcon
Ruger Chemical Co**CELLULOSE, FLOC**JRS Pharma GmbH &
Co KG**CELLULOSE, MICROCRYSTALLINE**Adept Solutions, World
Headquarters
AIC
Alfa Aesar, A Johnson
Matthey Co
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Asiameica Ingredients
Barrington Nutritionals
Biddle Sawyer Corp
Brenntag North America
FMC Corp, FMC
BioPolymer
Generichem Corp
Glatt Pharmaceutical
Services
JRS Pharma GmbH &
Co KG
Mingtai Chemical LLC
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co**CELLULOSE, POWDERED**Adept Solutions, World
Headquarters
FMC Corp, FMC
BioPolymer
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co**CELLULOSE, SILICIFIED MICROCRYSTALLINE**Biddle Sawyer Corp
Mutchler Pharmaceutical
Ingredients**CEPHALEXIN**

Alfa Chem

CEPHALOSPORINSAlfa Chem
PlusPharma**CEPHALOTHIN**

PlusPharma

CERAMIDES

Ruger Chemical Co

CETRIMIDE

Scandinavian Formulas

CETYL ALCOHOL (HEXADECANOL)Brenntag North America
Croda, Health Care
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CETYL ESTERS**Brenntag North America
Brenntag Specialties

For vendor contact information, see Company Directory section.

Croda, Health CareRuger Chemical Co
Scandinavian Formulas
Strahl & Pitsch**CETYL PALMITATE**Brenntag North America
Brenntag Specialties
Croda, Health Care
Ruger Chemical Co
Scandinavian Formulas**CETYL PYRIDINIUM CHLORIDE**AIC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CETYL TRIMETHYL AMMONIUM BROMIDE**Albemarle Corp
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas**CETYLDIMETHYL-BENZYLAMMONIUM CHLORIDE (SURFACTANT)**Ruger Chemical Co
Scandinavian Formulas**CHELATING AGENTS**Alfa Chem
Avantor Performance
Materials
Brenntag North America
Generichem Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co**CHITIN**Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Kraeber & Co GmbH
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CHITOSAN**Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Kraeber & Co GmbH
Marcor
Development Corp
Parchem - Fine &
Specialty Chemicals
Richman Chemical
Ruger Chemical Co
Scandinavian Formulas**CHLOPHEDIANOL HCL**PlusPharma
Scandinavian Formulas**CHLORAMPHENICOL**AIC
Alfa Chem
Parchem - Fine &
Specialty Chemicals
PlusPharma**CHLORHEXIDINE BASE**Evonik Corp, Health
Care**CHLORHEXIDINE DIACETATE**

AIC

Alfa ChemEvonik Corp, Health
Care
Napp Technologies LLC**CHLORHEXIDINE DIGLUCONATE**AIC
Alfa Chem
Evonik Corp, Health
Care
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CHLORHEXIDINE GLUCONATE**AIC
Evonik Corp, Health
Care
Meritech**CHLORHEXIDINE HCL**AIC
Alfa Chem
Evonik Corp, Health Care
Napp Technologies LLC
Ruger Chemical Co**CHLORINE**Alfa Chem
Avantor Performance
Materials**CHLOROBUTANOL**

Ruger Chemical Co

CHLOROFORMArkema
Avantor Performance
Materials**CHLOROFORMATES**

Arkema

CHLOROPHYLLAlfa Chem
Charles Bowman & Co
Ruger Chemical Co
Scandinavian Formulas**CHLOROQUINE DIPHOSPHATE**Alfa Chem
Parchem - Fine &
Specialty Chemicals**CHLOROXYLENOL**

Asiameica Ingredients

CHLORPHENIRAMINEAIC
Asiameica Ingredients
PlusPharma
Ruger Chemical Co**CHLORPHENIRAMINE MALEATE**AIC
Asiameica Ingredients
Marcor Development
Corp
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co**CHLORZOXAZONE**Boscogen
Parchem - Fine &
Specialty Chemicals**CHOLESTEROL**Adept Solutions, World
Headquarters
Alfa Chem
Charles Bowman & Co
Croda, Health Care
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CHOLINE**Alfa Chem
Arkema
Asiameica Ingredients
Ruger Chemical Co**CHOLINE CHLORIDE**AIC
Alfa Chem
Brenntag North
America**CHOLINE DIHYDROGEN CITRATE**AIC
Alfa Chem**CHOLINE SALICYLATE**Alfa Chem
BASF Corp, G-ENP**CHOLINE SALTS**

AIC

CHONDROITIN SULFATEAlfa Chem
American Labs
Asiameica Ingredients
Brenntag North
America
Charles Bowman & Co
Helm New York
Kraeber & Co GmbH
Marcor
Development Corp**CHONDROITIN SULFATE**Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CHORIONIC GONADOTROPIN**Kraeber & Co GmbH
Scandinavian Formulas**CHROMIC ACID**

Alfa Chem

CHROMIUM COMPOUNDSAIC
Asiameica Ingredients
Soltec Ventures**CHROMIUM SULFATE**

Scandinavian Formulas

CHRYSINAlfa Chem
Anmar Intl Ltd
Barrington Nutritionals
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas**CHYMOTRYPSIN**American Labs
Asiameica Ingredients
Marcor
Development Corp
Pangaea Sciences
Scandinavian Formulas
Worthington
Biochemical Corp**CICLOPIROX**ETHANOLAMINE
SALT
Napp Technologies LLC**CINNAMATE**Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Ruger Chemical Co**CINNAMIC ACID**INDOFINE Chemical Co
Kraeber & Co GmbH
Ruger Chemical Co
Scandinavian Formulas**CINNAMIC ALCOHOL**INDOFINE Chemical Co
Kraeber & Co GmbH
Ruger Chemical Co**CINNAMON**Adept Solutions, World
Headquarters
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas**CINNAMON OIL**Adept Solutions, World
Headquarters
Alfa Chem
Arista Industries
Jedwards Intl
Ruger Chemical Co
Scandinavian Formulas**CINNARIZINE**Alfa Chem
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
PlusPharma**CIPROFLOXACIN HCL**Alfa Chem
Scandinavian Formulas**CIS-2, 6-DIMETHYL PIPER-IDINE**

Asiameica Ingredients

CISPLATINHetero, Custom
Pharmaceutical
Services**CITRAZINIC ACID**

Alfa Chem

CITRIC ACIDAlfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Helm New York
Jedwards Intl
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas**CITRONELLA OIL**Alfa Chem
Jedwards Intl
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

CLEANERS

Alconox
Decon Labs
International Products Corp
ITW Texwipe
MultiTherm LLC
Veltek Associates Inc

CLEMASTINE HYDROGEN FUMARATE

Marcor Development Corp

CLENBUTEROL

Alfa Chem
Parchem - Fine & Specialty Chemicals

CLINDAMYCIN HCL

Alfa Chem
Parchem - Fine & Specialty Chemicals

CLIOQUINOL

Alfa Chem
Napp Technologies LLC

CLOBETASOL 17-PROPIONATE

Parchem - Fine & Specialty Chemicals

CLOMIPRAMINE HCL

Parchem - Fine & Specialty Chemicals

CLONIDINE HCL

Parchem - Fine & Specialty Chemicals

CLOTIRMAZOLE

Asiamerica Ingredients
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

CLOVE OIL

Arista Industries
Jedwards Intl

COAL TAR

Adept Solutions, World Headquarters
Asiamerica Ingredients
Ruger Chemical Co

COATINGS, TABLET, AQUEOUS

Adept Solutions, World Headquarters
BASF Corp, G-ENP
Colorcon
Eastman Chemical Co
Evonik Corp, Health Care
FMC Corp, FMC
BioPolymer
Grain Processing Corp
Kerry
Nicos Group
Ortec
Roquette America
Ruger Chemical Co
Sensient
Pharmaceutical

COATINGS, TABLET, ENTERIC

Adept Solutions, World Headquarters
Asiamerica Ingredients
BASF Corp, G-ENP
Colorcon
Eastman Chemical Co
Evonik Corp, Health Care
FMC Corp, FMC
BioPolymer

Kerry
Nicos Group
Ortec
Ruger Chemical Co
Sensient Pharmaceutical

COATINGS, TABLET, SOLVENT-BASED

BASF Corp, G-ENP
Colorcon
Eastman Chemical Co
Evonik Corp, Health Care
Kerry
Nicos Group
Sensient
Pharmaceutical

COBALT (METAL)

Alfa Aesar, A Johnson
Matthey Co

COBALT GLUCONATE

Adept Solutions, World Headquarters
Alfa Chem

COBALT SALTS

AIC
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

COCOA

Adept Solutions, World Headquarters
Brenntag North America
Jedwards Intl
Ruger Chemical Co
Scandinavian Formulas

COCOA BUTTER

Arista Industries
Jedwards Intl

COCONUT FATTY ACIDS

ABITEC Corp
Alfa Chem
Arista Industries
Brenntag North America
Jedwards Intl
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

COD (FISH) LIVER OIL CONCENTRATE

Alfa Chem
Arista Industries
Asiamerica Ingredients
CellMark USA, LLC, Chemicals
Jedwards Intl
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CODEINE

Ruger Chemical Co

CODEINE PHOSPHATE

Asiamerica Ingredients
Parchem - Fine & Specialty Chemicals

COELENTERAZINE

Regis Technologies

COLCHICINE

Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

COLISTIN SULFATE

Alfa Chem

COLLAGEN

Asiamerica Ingredients
Kraeber & Co GmbH
Lampire Biological Labs
Parchem - Fine & Specialty Chemicals
PB Leiner USA
Ruger Chemical Co
Worthington
Biochemical Corp

COLLAGEN HYDROLYSATE

American Labs
Asiamerica Ingredients
Kraeber & Co GmbH
Marcor
Development Corp
PB Leiner USA

COLOR DISPERSIONS

Alfa Chem
Brenntag North America
Colorcon
Sensient Pharmaceutical

COLORS, CERTIFIED

Alfa Chem
Brenntag North America
Colorcon
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Sensient
Pharmaceutical

COLORS, NATURAL

AIC
Alfa Chem
Asiamerica Ingredients
Brenntag North America
Colorcon
Ruger Chemical Co
Scandinavian Formulas
Sensient Pharmaceutical

COMPLEX CARBOHYDRATES (SEE ALSO SPECIFIC CARBOHYDRATES)

Adept Solutions, World Headquarters
Alfa Chem
Grain Processing Corp
Kraeber & Co GmbH
Ruger Chemical Co

COPPER ACETATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiamerica Ingredients
Scandinavian Formulas

COPPER BROMIDE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Scandinavian Formulas

COPPER CARBONATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiamerica Ingredients
Generichem Corp
Scandinavian Formulas

COPPER CHLORIDE

Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas

COPPER CITRATE

Jost Chemical Co

COPPER GLUCONATE

Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiamerica Ingredients
Generichem Corp
Jost Chemical Co
Scandinavian Formulas

COPPER GLYCINATE

Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiamerica Ingredients
Generichem Corp
Scandinavian Formulas

COPPER IODIDE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Scandinavian Formulas

COPPER NITRATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiamerica Ingredients
Scandinavian Formulas

COPPER OXIDE

Jost Chemical Co

COPPER SULFATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiamerica Ingredients
Generichem Corp
Helm New York
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

CORIANDER OIL

Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

CORN OIL

Arista Industries
Brenntag North America
Croda, Health Care
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

CORN STARCH, PREGELATINIZED

Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Colorcon
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co
Scandinavian Formulas

CORN SYRUP SOLIDS

Grain Processing Corp

CORTISONE

Alfa Chem
Ruger Chemical Co

CORTISONE ACETATE

Alfa Chem
Ruger Chemical Co

COSMETIC CHEMICALS

ABITEC Corp
Adept Solutions, World Headquarters
AIC
Albemarle Corp
Alfa Chem
Arista Industries
Brenntag North America
Brenntag Specialties
Croda, Health Care
DSM Nutritional Products LLC
Kraeber & Co GmbH
Lonza
Napp Technologies LLC
Ortec
Roquette America
Ruger Chemical Co
Scandinavian Formulas

COTTONSEED HYDROLYSATE

Kerry

COTTONSEED OIL

Arista Industries
Croda, Health Care
Jedwards Intl
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

COTTONSEED OIL, HYDROGENATED

ABITEC Corp
Adept Solutions, World Headquarters
Arista Industries
JRS Pharma GmbH & Co KG
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

COUMARIN

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiamerica Ingredients

CREAM BASES

ABITEC Corp
Adept Solutions, World Headquarters
Napp Technologies LLC

CREATINE MONOHYDRATE

Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiamerica Ingredients
Brenntag North America
CellMark USA, LLC, Chemicals
Jet Pulverizer Co
Marcor Development Corp
Parchem - Fine & Specialty Chemicals
Pharmsolv LLC
Richman Chemical
Scandinavian Formulas

CROMOLYN SODIUM SALT

Alfa Chem
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

CROSCARMELLOSE SODIUM

AIC
Alfa Chem
Asahi Kasei Chemical Corp/Asahi Kasei America, Functional Additives Div
Asiamerica Ingredients
Barrington Nutritionals
Biddle Sawyer Corp
Blanver
DFE pharma
FMC Corp, FMC
BioPolymer
Generichem Corp
JRS Pharma GmbH & Co KG
Mingtai Chemical LLC
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals

CROSPVIDONE

AIC
Ashland, Ashland
Specialty Ingredients
Asiamerica Ingredients
BASF Corp, G-ENP
Biddle Sawyer Corp
Generichem Corp
Mutchler
Pharmaceutical
Ingredients
Scandinavian Formulas

CROSS-LINKED CARBOXYMETHYL CELLULOSE

Adept Solutions, World Headquarters
Asiamerica Ingredients
Brenntag Specialties
FMC Corp, FMC
BioPolymer
Generichem Corp
JRS Pharma GmbH & Co KG
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

CUPFERRON

Albemarle Corp
Richman Chemical

CUPRIC SULFATE

AIC
Alfa Chem
Generichem Corp
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

CYANOACETIC ACID

Asiamerica Ingredients
Scandinavian Formulas

CYANOGEN BROMIDE

FAR Chemical

CYCLOBENZAPRINE HCL

Aptalis Pharmaceutical
Technologies
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

CYCLODEXTRINS

Ashland, Ashland
Specialty Ingredients
Captisol

For vendor contact information, see Company Directory section.

- CYCLOHEXANONE**
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- CYCLOHEXYL BROMIDE**
Albemarle Corp
Scandinavian Formulas
- CYCLOHEXYL ETHYL ALCOHOL**
Scandinavian Formulas
- CYCLOHEXYL METHYL KETONE**
Scandinavian Formulas
- CYCLOPENTANONE**
Richman Chemical
Scandinavian Formulas
- CYCLO-
PHOSPHAMIDE**
Boscogen
Hetero, Custom
Pharmaceutical
Services
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- CYCLOPROPENE
METHANOL**
Scandinavian Formulas
- CYPROHEPTADINE
HCL**
Boscogen
- CYSTEAMINE HCL**
Asiameica Ingredients
Richman Chemical
Scandinavian Formulas
- CYSTEINE**
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Charles Bowman & Co
Generichem Corp
Marcor Development Corp
Pangaea Sciences
Ruger Chemical Co
Scandinavian Formulas
Wacker Chemical Corp
- CYTOCHROME C**
Pangaea Sciences
- D-(-)-MANDELIC
ACID**
Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas
- D-(-)-S-ACETYL-
β-MERCAP-
TOISOBUTYRIC ACID**
Adept Solutions, World
Headquarters
Alfa Chem
- D-MANNITOL**
Avantor Performance
Materials
- D-MENTHOL**
Alfa Chem
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas
- D-PHENYLGLYCINE**
Richman Chemical
- D(-)-A-PHENYLGLYCINE**
Richman Chemical
- D&C PIGMENTS**
Alfa Chem
Brenntag North America
Colorcon
Sensient
Pharmaceutical
- DACARBAZINE**
Asiameica Ingredients
- DANAZOL**
Adept Solutions, World
Headquarters
Parchem - Fine &
Specialty Chemicals
- DECANOL (DECYL
ALCOHOL)**
Scandinavian Formulas
- DEGRAS**
Ruger Chemical Co
- DEHYDROACETIC
ACID**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Lonza
- DEKATONIUM
BENZOATE**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
- DEKATONIUM
SACCHARIDE**
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
- DEOXYCHOLIC ACID**
Alfa Chem
Marcor
Development Corp
Soltec Ventures
- DEOXYRI-
BONUCLEASE**
Alfa Chem
Pangaea Sciences
Worthington
Biochemical Corp
- DESIPRAMINE HCL**
Parchem - Fine &
Specialty Chemicals
- DEXAMETHASONE
AND SALTS**
Alfa Chem
Ruger Chemical Co
- DEXBROMPHENIR-
AMINE MALEATE**
AIC
- DEXCHLORPHENIR-
AMINE MALEATE**
Napp Technologies LLC
- DEXTRATES**
Adept Solutions, World
Headquarters
Alfa Chem
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Paulaur Corp
- DEXTROMETHO-
RPHAN**
AIC
Alfa Chem
Boscogen
CellMark USA, LLC,
Chemicals
Pharmsolv LLC
Ruger Chemical Co
- DEXTROMETHO-
RPHAN
HYDROBROMIDE**
AIC
Alfa Chem
Boscogen
CellMark USA, LLC,
Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Pharmsolv LLC
- DEXTROSE**
Adept Solutions, World
Headquarters
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Paulaur Corp
Roquette America
Ruger Chemical Co
Scandinavian Formulas
- DI-N-PROPYLAMINE**
Asiameica Ingredients
- DI-TERT-BUTYL
DICARBONATE**
Albemarle Corp
Scandinavian Formulas
- DIACETONE
ALCOHOL**
Asiameica Ingredients
Brenntag North America
- DIACETOXYACETO-
PHENONE**
Asiameica Ingredients
- DIAMMONIUM
PHOSPHATE**
Alfa Chem
Brenntag North America
- DIASTASE**
Adept Solutions, World
Headquarters
American Labs
Marcor
Development Corp
- DIAXOXIDE**
Parchem - Fine &
Specialty Chemicals
- DIBENZYLAMINE**
Scandinavian Formulas
- DIBROMODIMETHYL
HYDANTOIN**
Albemarle Corp
- DIBUCAINE**
BASF Corp, G-ENP
Napp Technologies LLC
- DIBUCAINE HCL**
BASF Corp, G-ENP
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
- DICALCIUM
PHOSPHATE,
ANHYDROUS**
AIC
Mutchler Pharmaceutical
Ingredients
- DICALCIUM
PHOSPHATE,
DIHYDRATE**
AIC
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Scandinavian Formulas
- DICHLORODI-
METHYLHYDANTOIN**
Lonza
- DICLOFENAC
SODIUM**
Aptalis Pharmaceutical
Technologies
Boscogen
XenoTech
- DICYCLOMINE HCL**
Parchem - Fine &
Specialty Chemicals
- DIETHYL MALONATE**
Alfa Chem
- DIETHYL SULFATE**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
- DIETHYL SULFIDE**
Arkema
- DIETHYLAMINE**
Arkema
Ruger Chemical Co
Scandinavian Formulas
- DIETHYLAMINO-
ETHANOL**
Arkema
Richman Chemical
Ruger Chemical Co
- DIETHYLAMINO-
ETHYL CHLORIDE**
Richman Chemical
- DIETHYLAMINO-
TRIMETHYLSILANE**
Brenntag Specialties
- DIETHYLENE
GLYCOL**
Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
- DIETHYLENE
GLYCOL LAURATE**
Adept Solutions, World
Headquarters
Alfa Chem
Lonza
Ruger Chemical Co
- DIETHYLENE
GLYCOL
MONOETHYL ETHER**
Adept Solutions, World
Headquarters
- Alfa Aesar, A Johnson
Matthey Co
Richman Chemical
Ruger Chemical Co
- DIETHYLENE
GLYCOL STEARATE**
Adept Solutions, World
Headquarters
Lonza
Ruger Chemical Co
- DIFLUNISAL**
Parchem - Fine &
Specialty Chemicals
- DIGITOXIN**
Alfa Chem
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
- DIGOXIN**
Alfa Chem
INDOFINE Chemical Co
Parchem - Fine &
Specialty Chemicals
- DIHYDROCODEINE
TARTRATE**
Ruger Chemical Co
Scandinavian Formulas
- DIHYDROXY-
ACETOPHENONE**
INDOFINE Chemical Co
- DIHYDROXYANISOLE**
INDOFINE Chemical Co
- DIISOPROPYLAMINE**
Arkema
Ruger Chemical Co
- DIISOPROPYLDI-
CHLOROSILANE**
Brenntag Specialties
- DILTIAZEM HCL**
Aptalis Pharmaceutical
Technologies
Boscogen
- DIMAGNESIUM
PHOSPHATE**
AIC
- DIMETHICONE
(POLYDIMETHYL-
SILOXANE)**
Brenntag North America
Momentive
Performance Materials
NuSil Technology
Ruger Chemical Co
- DIMETHOXY-
ACETOPHENONE**
INDOFINE Chemical Co
- DIMETHYL
PHTHALATE**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Parchem - Fine &
Specialty Chemicals
- DIMETHYL SULFIDE**
Arkema
Gaylord Chemical Co
- DIMETHYL
SULFOXIDE**
Avantor Performance
Materials
Gaylord Chemical Co
- DIMETHYLAMINE**
Scandinavian Formulas
- DIMETHYLAMINE
HCL**
Scandinavian Formulas
- DIMETHYLAMINO-
2-PROPANOL**
Alfa Chem
Arkema
- DIMETHYLAMINO-
PROPYL CHLORIDE**
Scandinavian Formulas
- DIMETHYLAMINO-
PROPYLAMINE**
Scandinavian Formulas
- DIMETHYLUREA**
Alfa Chem
- DI-OCTYL SODIUM
SULFOSUCCINATE
(DOCUSATE
SODIUM)**
AIC
Cytec Industries,
Additive Technologies
Mutchler Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co
- DI-OCTYL
THIOGLYCOLATE**
Ruger Chemical Co
- DIOSMIN**
Anmar Intl Ltd
INDOFINE Chemical Co
Isochem
- DIPEPTIDES**
Evonik Corp, Health Care
- DIPHENHYDRAMINE
CITRATE**
Albemarle Corp
Asiameica Ingredients
PlusPharma
- DIPHENHYDRAMINE
HCL**
AIC
Albemarle Corp
Aptalis Pharmaceutical
Technologies
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Marcor Development Corp
Napp Technologies LLC
PlusPharma
- DIPHENYLMETHANE,
BENZYL BENZENE**
Arkema
- DIPOTASSIUM
PHOSPHATE**
AIC
Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- DISACCHARIDES**
Adept Solutions, World
Headquarters
Scandinavian Formulas

DISINFECTANTS

Albemarle Corp
Alfa Chem
Contec
Decon Labs
Hutchins & Hutchins
Lonza
Ruger Chemical Co
Veltek Associates Inc

DISULFIRAM

Kingchem LLC

DITHIOTHREITOL

Adept Solutions, World
Headquarters
INDOFINE Chemical Co
Soltec Ventures

DL-10-CAMPHORSULFONIC ACID

Asiameica Ingredients

DOPAMINE HCL

BASF Corp, G-ENP

DOXEPIN HCL

Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals

DOXYLAMINE SUCCINATE

AIC
Alfa Chem
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals

DRIED HONEY, COMPRESSIBLE

Adept Solutions, World
Headquarters
Alfa Chem
Scandinavian Formulas

DRUG CONJUGATES

CARBOGEN AMCIS AG

DYCLONINE HCL

Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals

DYES & PIGMENTS

Albemarle Corp
Sensient
Pharmaceutical

ECONAZOLE NITRATE

AIC
Alfa Chem
Isochem
Napp Technologies LLC

EDETATE DISODIUM

AIC
Alfa Chem
Ruger Chemical Co

EGG PHOSPHATIDES

Alfa Chem

EGG PHOSPHOLIPIDS

Alfa Chem
Pangaea Sciences

ELASTOMERS

Alfa Chem
Arkema
G-M-I
NuSil Technology
Ruger Chemical Co

EMULSION BASES

ABITEC Corp
Adept Solutions, World
Headquarters
Asiameica Ingredients
Croda, Health Care
Siovation LLC

ENHANCERS, CHOCOLATE

Adept Solutions, World
Headquarters

ENZYMES (SEE ALSO SPECIFIC ENZYMES)

American Labs
Asiameica Ingredients
Avidity LLC
Brenntag North America
Kraeber & Co GmbH
Marcor
Development Corp
Pangaea Sciences
Scripps Labs
Worthington
Biochemical Corp

EPHEDRINE AND SALTS

Adept Solutions, World
Headquarters
Asiameica Ingredients
PlusPharma
Ruger Chemical Co

EPHEDRINE HCL

Adept Solutions, World
Headquarters
Asiameica Ingredients
BASF Corp, G-ENP
PlusPharma
Ruger Chemical Co

EPICHLOROHYDRIN

PlusPharma
Richman Chemical
Ruger Chemical Co

EPINEPHRINE (ADRENALIN)

Adept Solutions, World
Headquarters
Asiameica Ingredients

EPINEPHRINE BITARTRATE

Adept Solutions, World
Headquarters
Asiameica Ingredients

ERBIUM SALTS

Alfa Aesar, A Johnson
Matthey Co
Brenntag Specialties
Soltec Ventures

ERGOLOID MESYLATES

Parchem - Fine &
Specialty Chemicals

ERGONOVINE MALEATE

Alfa Chem

ERYTHORBIC ACID

Alfa Chem
Asiameica Ingredients
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Roquette America

ERYTHROMYCIN AND DERIVATIVES

Abbott Labs, Global
Pharmaceutical
Operations
AIC
Alfa Chem
Helm New York
Parchem - Fine &
Specialty Chemicals

ERYTHRULOSE

Kraeber & Co GmbH
Napp Technologies LLC

ESTROGENS

Ruger Chemical Co

ESTRONE

Parchem - Fine &
Specialty Chemicals

ETHANOLAMINES

Ruger Chemical Co

ETHOXYLATED AMINES

ABITEC Corp
Croda, Health Care

ETHOXYLATED FATTY ACIDS

ABITEC Corp
Brenntag North America
Croda, Health Care
Ruger Chemical Co

ETHOXYLATED FATTY ALCOHOLS

ABITEC Corp
Brenntag North America
Croda, Health Care
Lonza
Ruger Chemical Co

ETHOXYLATED SORBITAN FATTY ACID ESTERS

Brenntag North America
Croda, Health Care
Lonza
Ruger Chemical Co

ETHYL 4-ETHOXYBENZOATE

INDOFINE Chemical Co

ETHYL 4,4,4-TRIFLUOROACETATE

INDOFINE Chemical Co

ETHYL ACETATE

Alfa Chem
Avantor Performance
Materials
Brenntag North America
Eastman Chemical Co
Parchem - Fine &
Specialty Chemicals

ETHYL ACETOACETATE

Alfa Chem
Eastman Chemical Co
Lonza

ETHYL ALCOHOL

Alfa Chem
Avantor Performance
Materials
Biologos
Brenntag North America
Decon Labs
Grain Processing Corp
Ruger Chemical Co

ETHYL AMINOENZOATE (BENZOCAINE)

AIC

ETHYL BROMIDE

Albemarle Corp
Alfa Chem

ETHYL BUTYL KETONE

Alfa Chem
Ruger Chemical Co

ETHYL CELLULOSE

Ashland, Ashland
Specialty Ingredients
Brenntag North America
Brenntag Specialties
Colorcon
Dow Pharma Solutions,
Dow Advanced Materials
Ruger Chemical Co

ETHYL CELLULOSE (DISPERSION)

Brenntag North America
Colorcon
Ruger Chemical Co

ETHYL CROTONATE

Alfa Chem

ETHYL CYCLOHEXANE CARBOXYLATE

Adept Solutions, World
Headquarters

ETHYL IODIDE

Alfa Chem

ETHYL ISONICOTINATE

Alfa Chem

ETHYL LACTATE

Alfa Chem
Brenntag North America

ETHYL LAURATE

Brenntag North America

ETHYL OLEATE

Croda, Health Care

ETHYL OXALYL CHLORIDE

CellMark USA, LLC,
Chemicals

ETHYL P-HYDROXY-BENZOATE

INDOFINE Chemical Co
Napp Technologies LLC

ETHYL PHENYL ACETATE, TECHNICAL

Arkema

ETHYLENE DICHLORIDE

Alfa Chem
Asiameica Ingredients
Brenntag North America

ETHYLENE GLYCOL

Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Eastman Chemical Co

Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

ETHYLENE GLYCOL MONOSTEARATE

Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Ruger Chemical Co

ETHYLENE OXIDE

Alfa Chem
Asiameica Ingredients
Brenntag North America

ETHYLENEDIAMINE-TETRAACETIC ACID, POWDER

AIC
Brenntag North America
Parchem - Fine &
Specialty Chemicals

ETHYLPARABEN

Avantor Performance
Materials
Brenntag Specialties
Napp Technologies LLC
Ruger Chemical Co

ETOPOSIDE

Parchem - Fine &
Specialty Chemicals

EUCALYPTOL

Alfa Chem
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

EUCALYPTUS OIL

Alfa Chem
Arista Industries
Asiameica Ingredients
Jedwards Intl
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

EUROPIUM SALTS

Brenntag Specialties

EVAN'S BLUE

Alfa Chem

FAMOTIDINE

Alfa Chem
LGM Pharma

FATTY ACID AMIDES

ABITEC Corp
Alfa Chem
Croda, Health Care
KIC Chemicals
Scandinavian Formulas

FATTY ACID ESTERS

Croda, Health Care

FATTY ALCOHOL ETHERS

ABITEC Corp
Alfa Chem
Brenntag North America
Croda, Health Care
Ruger Chemical Co

FATTY ALCOHOL SULFATES

Alfa Chem
Croda, Health Care

Ruger Chemical Co
Scandinavian
Formulas

FATTY ALCOHOLS

Alfa Chem
Brenntag North America
CellMark USA, LLC,
Chemicals
Croda, Health Care
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

FATTY OILS

ABITEC Corp
Alfa Chem
Arista Industries
Croda, Health Care
DSM Nutritional
Products LLC
Jedwards Intl
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

FENNEL OIL

Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

FENOFIBRATE

Boscogen
Hetero, Custom
Pharmaceutical
Services
Novasep

FENOPROFEN CALCIUM

Albemarle Corp

FERMENTATION NUTRIENTS

Marcor
Development Corp

FERRIC AMMONIUM CITRATE

Alfa Chem
Asiameica Ingredients
Generichem Corp
Jost Chemical Co
Scandinavian Formulas

FERRIC AMMONIUM SULFATE

AIC
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

FERRIC CHLORIDE

AIC
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

FERRIC CITRATE

Jost Chemical Co

FERRIC NITRATE

Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

FERRIC OXIDE, RED

Alfa Chem
Asiameica Ingredients
Brenntag Specialties
Ruger Chemical Co
Scandinavian Formulas
Sensient
Pharmaceutical
Soltec Ventures

FERRIC PYROPHOSPHATE
Asiameica Ingredients
Jost Chemical Co
Scandinavian Formulas

FERROUS AMMONIUM SULFATE
Jost Chemical Co
Scandinavian Formulas

FERROUS CARBONATE, SACCHARATED
Scandinavian Formulas

FERROUS FUMARATE
AIC
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
CellMark USA, LLC,
Chemicals
Generichem Corp
Jost Chemical Co
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

FERROUS GLUCONATE
Adept Solutions,
World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Generichem Corp
Jost Chemical Co
Scandinavian Formulas

FERROUS LACTATE
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp
Jost Chemical Co
Scandinavian Formulas

FERROUS SULFATE
AIC
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Barrington Nutritionals
Brenntag North America
Generichem Corp

FILM COATINGS
Adept Solutions, World
Headquarters
Ashland, Ashland
Specialty Ingredients
BASF Corp, G-ENP
Biddle Sawyer Corp
Colorcon
Eastman Chemical Co
Evonik Corp, Health
Care
Grain Processing Corp
Kerry
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co
Sensient
Pharmaceutical

FLAVOR ENHANCERS
Adept Solutions, World
Headquarters
Asiameica Ingredients
Biddle Sawyer Corp
Brenntag North America
Scandinavian Formulas
Sensient Pharmaceutical

FLAVORS
Adept Solutions, World
Headquarters
Asiameica Ingredients
Kerry
Ruger Chemical Co
Scandinavian Formulas
Sensient
Pharmaceutical

FLAVORS & FRAGRANCES
Albemarle Corp
Arista Industries
Asiameica Ingredients
Jedwards Intl
KIC Chemicals
Scandinavian Formulas

FLUFENAMIC ACID
Asiameica Ingredients
Scandinavian Formulas

FLUNARIZINE DIHYDROCHLORIDE
INDOFINE Chemical Co

FLUOCINOLONE ACETONIDE
Alfa Chem
Parchem - Fine &
Specialty Chemicals

FLUORESCEINS
Kraeber & Co GmbH

FLUORINE DERIVATIVES, ALIPHATIC
INDOFINE Chemical Co

FLUORINE DERIVATIVES, AROMATIC
Albemarle Corp
INDOFINE Chemical Co

FLUOROURACIL
Alfa Aesar, A Johnson
Matthey Co
INDOFINE Chemical Co

FLUOXETINE
Boscogen

FLUOXETINE HCL
Alfa Chem
Asiameica Ingredients
Boscogen
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

FLURAZEPAM 2 HCL
Asiameica Ingredients

FLURBIPROFEN
Albemarle Corp

FLUTAMIDE
Parchem - Fine &
Specialty Chemicals

FOLIC ACID
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
CellMark USA, LLC,
Chemicals
Charles Bowman & Co
DSM Nutritional
Products LLC
Generichem Corp
Helm New York
KIC Chemicals

For vendor contact information, see Company Directory section.

Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

FOLINIC ACID CALCIUM SALT PENTAHYDRATE
Alfa Chem

FORMALDEHYDE
Scandinavian Formulas

FORMAMIDE
Alfa Chem
Scandinavian Formulas

FORMATES
Albemarle Corp
Alfa Chem
Brenntag North America
Scandinavian Formulas

FRAGRANCES
Scandinavian Formulas

FRUCTOSE
Adept Solutions, World
Headquarters
Alfa Chem
Barrington Nutritionals
Brenntag North America
Paulaur Corp
Roquette America
Ruger Chemical Co
Scandinavian Formulas

FULLER'S EARTH
Ruger Chemical Co

FUMARIC ACID
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

FUNGICIDES
Albemarle Corp
Alfa Chem
Ruger Chemical Co

FUROSEMIDE
Alfa Chem
Parchem - Fine &
Specialty Chemicals

GALACTOSE
Adept Solutions, World
Headquarters
Alfa Chem
Avantor Performance
Materials
Kraeber & Co GmbH
Marcor Development Corp
Mutchler Pharmaceutical
Ingredients

GALLIC ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

GELATIN
Adept Solutions, World
Headquarters

Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals
PB Leiner USA
Ruger Chemical Co
Scandinavian Formulas
Suheung America Corp

GELATIN, HYDROLYZED
Adept Solutions, World
Headquarters
Asiameica Ingredients
Brenntag North America
Marcor
Development Corp
PB Leiner USA
Ruger Chemical Co
Scandinavian Formulas
Suheung America Corp

GELATION AGENTS
Adept Solutions, World
Headquarters
Brenntag North America
FMC Corp, FMC
BioPolymer
PB Leiner USA
Ruger Chemical Co

GELLAN GUM
Adept Solutions, World
Headquarters
Brenntag North America

GEMFIBROZIL
Kraeber & Co GmbH

GENTAMICIN SULFATE
Alfa Chem
Parchem - Fine &
Specialty Chemicals

GENTIAN VIOLET
Ruger Chemical Co

GIBBERELIC ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Parchem - Fine &
Specialty Chemicals

GLICLAZIDE
Alfa Chem
DSM Pharmaceuticals
Products
Parchem - Fine &
Specialty Chemicals

GLIPIZIDE
Alfa Chem
INDOFINE Chemical Co

GLUCONIC ACID AND SALTS
Alfa Chem
Roquette America

GLUCONO DELTA LACTONE
Alfa Chem
Brenntag North America
Lonza
Parchem - Fine &
Specialty Chemicals
Roquette America

GLUCOSAMINE SULFATE SALT
Adept Solutions, World
Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients

Barrington Nutritionals
Charles Bowman & Co
Kraeber & Co GmbH
Marcor Development Corp
Parchem - Fine &
Specialty Chemicals
Richman Chemical

GLUCOSE
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Parchem - Fine &
Specialty Chemicals
Roquette America
Ruger Chemical Co

GLUCOSE POLYMERS
Adept Solutions, World
Headquarters
Roquette America

GLUCOSE SYRUP
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Roquette America
Ruger Chemical Co

GLUTAMIC ACID AND SALTS
Evonik Corp, Health Care

GLUTAMIC ACID HCL
Alfa Chem
Asiameica Ingredients
Napp Technologies LLC
Ruger Chemical Co

GLUTARALDEHYDE
Alfa Chem
Electron Microscopy
Sciences

GLUTETHIMIDE
Alfa Chem

GLYBURIDE (GLIBENCLAMIDE)
Alfa Chem
Parchem - Fine &
Specialty Chemicals

GLYCERIN
AIC
Arista Industries
Jedwards Intl

GLYCEROL MONOLAURATE
ABITEC Corp
Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Lonza
Ruger Chemical Co

GLYCEROL MONOLEATE
ABITEC Corp
Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Croda, Health Care
Lonza
Ruger Chemical Co

GLYCERO-PHOSPHATES
Adept Solutions, World
Headquarters

Alfa Chem
Asiameica Ingredients
Brenntag North America

GLYCERYL GUAIACOLATE
Adept Solutions, World
Headquarters

GLYCERYL MONOSTEARATE
ABITEC Corp

GLYCINE
Adept Solutions, World
Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
CellMark USA, LLC,
Chemicals
Charles Bowman & Co
Evonik Corp, Health Care
Generichem Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

GLYCINE ETHYL ESTER HCL
Alfa Chem
Scandinavian Formulas

GLYCINE IRON SULFATE
Scandinavian Formulas

GLYCINE METHYL ESTER HCL
Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas

GLYCOL MONOSALICYLATE
Adept Solutions, World
Headquarters
Alfa Chem

GLYCOLS AND RELATED COMPOUNDS
Adept Solutions, World
Headquarters
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

GLYCRRHIZA
Adept Solutions, World
Headquarters
Ruger Chemical Co
Scandinavian Formulas

GLYCRRHIZIC ACID
Adept Solutions, World
Headquarters
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

GOLD
Alfa Aesar, A Johnson
Matthey Co

GRAPE SKIN EXTRACT
Adept Solutions, World
Headquarters
Alfa Chem

Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
Charles Bowman & Co
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Sensient Pharmaceutical

**GUAIACOL
GLYCERYL ETHER
(GUAIFENESIN)**

AIC
Barrington Nutritionals
CellMark USA, LLC,
Chemicals
Napp Technologies LLC

GUANIDINE

Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Ruger Chemical Co

**GUANIDINE
CARBONATE**

Alfa Chem
Asiameica Ingredients
Kingchem LLC
Ruger Chemical Co

GUANIDINE HCL

AIC
Avantor Performance
Materials
BioSpectra

GUANIDINE NITRATE

Alfa Chem
Asiameica Ingredients

GUANINE

Adept Solutions, World
Headquarters

GUAR GUM

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
Gumix Intl
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

**GUM BENZOIN
(BENZOIN USP)**

Alfa Chem
Pangaea Sciences
Scandinavian Formulas

HALAZONE

Asiameica Ingredients

**HALOGENATED
ACYL HALIDES**

Albemarle Corp

**HALOGENATED
ALKANES**

Albemarle Corp
Kingchem LLC

**HALOGENATED
CARBOXYLIC ACIDS**

Albemarle Corp
Asiameica Ingredients
Kingchem LLC

HALOPERIDOL

Alfa Chem
INDOFINE Chemical Co

Parchem - Fine &
Specialty Chemicals

HECTORITE

Brenntag Specialties
Ruger Chemical Co

HEMOGLOBIN

Kraeber & Co GmbH

HEPARAN SULFATE

LGM Pharma

**HEPARIN AND
MODIFIED
HEPARINS**

Alfa Chem
Kraeber & Co GmbH

HEPARIN SODIUM

AIC
Alfa Chem
Kraeber & Co GmbH

HESPERIDIN

Alfa Chem
Asiameica Ingredients
Generichem Corp

**HEXAMETHYL-
DISILANE**

Brenntag Specialties
CellMark USA, LLC,
Chemicals

HEXANE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Avantor Performance
Materials
Scandinavian Formulas

**HEXYL GLYCOL
ETHERS**

Alfa Chem

HEXYL SALICYLATE

Alfa Chem
Fontarome Chemical
INDOFINE Chemical Co

**HIGHLY POTENT API
MANUFACTURING**

CARBOGEN AMCIS AG
Evonik Corp, Health
Care
Novasep
Omnichem,
Pharmaceutical Fine
Chemicals

HIPPURIC ACID

INDOFINE Chemical Co

**HISTAMINE
PHOSPHATE**

Alfa Chem

HISTIDINE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance
Materials
Scandinavian Formulas

HOLMIUM OXIDE

Alfa Aesar, A Johnson
Matthey Co
Brenntag Specialties
Soltec Ventures

**HOMATROPINE AND
DERIVATIVES**

Parchem - Fine &
Specialty Chemicals

HORMONES

Adept Solutions, World
Headquarters
Ruger Chemical Co
Scripps Labs

HUMECTANTS

ABITEC Corp
Adept Solutions, World
Headquarters
Brenntag North America
Roquette America

HYALURONIC ACID

AIC
Alfa Chem
Anmar Intl Ltd
Brenntag North America
CellMark USA, LLC,
Chemicals
FMC Corp, FMC
BioPolymer
Kraeber & Co GmbH
Marcor
Development Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Worthington
Biochemical Corp

HYALURONIDASE

Kraeber & Co GmbH
Worthington
Biochemical Corp

HYDRALAZINE HCL

Hetero, Custom
Pharmaceutical
Services

HYDRAZINE HYDRATE

Alfa Chem
Arkema

HYDRAZINE SULFATE

Alfa Chem

**HYDROBROMIC
ACID**

Albemarle Corp

**HYDROCHLORIC
ACID**

Avantor Performance
Materials

**HYDROCHLORO-
THIAZIDE**

Alfa Chem
Parchem - Fine &
Specialty Chemicals

HYDROCODONE

Ruger Chemical Co

**HYDROCORTISONE
ACETATE (CORTISOL
ACETATE)**

AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

**HYDROCORTISONE
AND RELATED
COMPOUNDS
(CORTISOL)**

AIC

**HYDROFLUME-
THIAZIDE**

Parchem - Fine &
Specialty Chemicals

**HYDROFLUORIC
ACID**

Alfa Chem
Arkema
Avantor Performance
Materials
Brenntag North
America

**HYDROGEN
CHLORIDE**

Alfa Chem
Arkema
Scandinavian Formulas

**HYDROGEN
PEROXIDE**

Avantor Performance
Materials
Biologos

**HYDROGENATED
VEGETABLE OILS**

ABITEC Corp
Alfa Chem
Arista Industries
Brenntag North
America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas

**HYDROMORPHONE
HCL**

Alfa Chem

**HYDROPHOBIC
POLYMERS**

Bangs Labs

HYDROQUINONE

Alfa Chem
Brenntag North
America
Eastman Chemical Co
Kraeber & Co GmbH
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

**HYDROXYETHYL
CELLULOSE**

Alfa Chem
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Brenntag Specialties
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

**HYDROXYLAMINE
SULFATE**

Parchem - Fine &
Specialty Chemicals
Richman Chemical

**HYDROXYPROPYL
CELLULOSE**

Alfa Chem
Anmar Intl Ltd
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Barrington Nutritionals
Brenntag North
America
Colorcon
Dow Pharma Solutions,
Dow Advanced
Materials
Mutchler
Pharmaceutical
Ingredients
Nisso America
Ruger Chemical Co

**HYDROXYPROPYL
CELLULOSE,
LOW-SUBSTITUTED**

Biddle Sawyer Corp
Dow Pharma Solutions,
Dow Advanced
Materials

**HYDROXYPROPYL
METHYLCELLULOSE**

Biddle Sawyer Corp
Brenntag North America
Colorcon
Dow Pharma Solutions,
Dow Advanced
Materials
Kerry
Sensient
Pharmaceutical

**HYDROXYPROPYL
METHYLCELLULOSE
ACETATE
SUCCINATE**

Asiameica Ingredients
Biddle Sawyer Corp
Brenntag North America
Dow Pharma Solutions,
Dow Advanced
Materials
Ruger Chemical Co

**HYDROXYPROPYL
METHYLCELLULOSE
PHTHALATE**

Asiameica Ingredients
Biddle Sawyer Corp
Brenntag North America
Ruger Chemical Co

HYDROXYUREA

Alfa Chem

HYDROXYZINE

Alfa Chem
Parchem - Fine &
Specialty Chemicals

**HYDROXYZINE
PAMOATE**

Alfa Chem

HYOSCYAMINE

Alfa Chem

**HYOSCYAMINE
HYDROBROMIDE**

Alfa Chem

HYPROMELLOSE

Ashland, Ashland
Specialty Ingredients
Biddle Sawyer Corp
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients

IBUPROFEN, USP

Adept Solutions, World
Headquarters
Albemarle Corp
Alfa Chem
Anmar Intl Ltd
Aptalis Pharmaceutical
Technologies
Asiameica Ingredients
BASF Corp, G-ENP
LGM Pharma
Parchem - Fine &
Specialty Chemicals
Pharmsolv LLC
Ruger Chemical Co
SPI Pharma

ICHTHAMMOL

Ruger Chemical Co

IMIDAZOLE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Avantor Performance
Materials

**IMIDAZOLIDINYL
UREA**

Alfa Chem
Ruger Chemical Co

IMINODIBENZYL

Alfa Chem

INDAPAMIDE

Parchem - Fine &
Specialty Chemicals

INDIUM SALTS

Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

INDIUM SULFATE

Soltec Ventures

**INDIUM
TRICHLORIDE**

Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

**INDOLE-3-
CARBOXYLALDEHYDE**

Alfa Chem
INDOFINE Chemical Co
Richman Chemical
Scandinavian Formulas

**INDOLE-3-
PROPIONIC ACID**

Alfa Chem
INDOFINE Chemical Co

INDOMETHACIN

Alfa Chem

INKS, EDIBLE

Colorcon
Scandinavian Formulas
Sensient
Pharmaceutical
Videojet Technologies

INSULINS

Adept Solutions, World
Headquarters
Asiameica Ingredients
Scandinavian Formulas

**IODINATED
GLYCEROL**

Adept Solutions, World
Headquarters
Parchem - Fine &
Specialty Chemicals

IODINE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Biologos
Helm New York
Ruger Chemical Co

**IODINE,
RESUBLIMED**

Alfa Aesar, A Johnson
Matthey Co
Ruger Chemical Co

IDOQUINOL

Napp Technologies LLC

For vendor contact information, see Company Directory section.

ION-EXCHANGE RESIN

Avantor Performance Materials
Dow Pharma Solutions,
Dow Advanced Materials

IONONE β PURE

Asiameica Ingredients

IPECAC

Ruger Chemical Co

IRON III (FERRIC) ORTHO PHOSPHATE

Asiameica Ingredients
Soltex Ventures

IRON POWDER

AIC
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Charles Bowman & Co
Pharmsolv LLC

IRON, REDUCED

AIC
Avantor Performance Materials

ISOAMYL ACETATE

Albemarle Corp
Fontarome Chemical
Richman Chemical

ISOAMYL ALCOHOL (ISOPENTYL ALCOHOL)

Richman Chemical

ISOBUTYL ACETATE

Albemarle Corp
Fontarome Chemical
Scandinavian Formulas

ISOBUTYL ALCOHOL

Arkema
Avantor Performance Materials
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

ISOBUTYRATE

Albemarle Corp
Alfa Chem
Scandinavian Formulas

ISOLEUCINE (L AND D,L)

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance Materials
Scandinavian Formulas

ISOMALT

Beneo-Palatinit GmbH

ISONICOTINAMIDE

Alfa Chem
CellMark USA, LLC,
Chemicals

ISONICOTINIC ACID

Alfa Chem
Ruger Chemical Co

ISONIPECOTAMIDE

Alfa Chem

ISOPROPYL ACETATE

Alfa Chem
Blue Thunder Technologies

Brenntag North America
Scandinavian Formulas

ISOPROPYL ALCOHOL

Alfa Chem
Avantor Performance Materials
Biologos
Blue Thunder Technologies
Brenntag North America
Decon Labs
Eastman Chemical Co
Hutchins & Hutchins
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

ISOPROPYL FATTY ACID ESTERS

Brenntag North America
Ruger Chemical Co

ISOPROPYL MYRISTATE

Alfa Chem
Brenntag North America
Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

ISOPROPYL PALMITATE

Alfa Chem
Brenntag North America
Fontarome Chemical
KIC Chemicals
Mutchler
Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

ISOPROPYLAMINE

Arkema
Brenntag North America

ISOPROTERENOL HCL

Parchem - Fine & Specialty Chemicals

ISOSORBIDE DINITRATE

Adept Solutions, World Headquarters
Alfa Chem
Parchem - Fine & Specialty Chemicals

ISOSORBIDE-5-MONONITRATE

Adept Solutions, World Headquarters

ISOVALERIANATE

Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients
Scandinavian Formulas

ITRACONAZOLE

Albemarle Corp
Alfa Chem
Hetero, Custom
Pharmaceutical Services
Napp Technologies LLC

JUNIPER BERRY EXTRACT

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

KAOLIN

Alfa Chem
Avantor Performance Materials
Brenntag North America
Brenntag Specialties
Charles B Chrystal
Ruger Chemical Co

KARAYA

Adept Solutions, World Headquarters
Gumix Intl
Ruger Chemical Co
Scandinavian Formulas

KELP

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Charles Bowman & Co
Ruger Chemical Co
Scandinavian Formulas

KETOCONAZOLE

AIC
XenoTech

KETOPROFEN

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals
Pharmsolv LLC

L-(+)-MANDELIC ACID

Alfa Aesar, A Johnson Matthey Co
Scandinavian Formulas

L-ARGININE

Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
CellMark USA, LLC, Chemicals
Charles Bowman & Co
Evonik Corp, Health Care
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

L-ARGININE HCL

Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance Materials
Brenntag North America
Generichem Corp
INDOFINE Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

L-ASPARTIC ACID

Adept Solutions, World Headquarters

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Evonik Corp, Health Care
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical Mfg Corp

L-CAMPORSULFONIC ACID

Alfa Chem
Scandinavian Formulas

L-CYSTEINE HCL

Adept Solutions, World Headquarters
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
Generichem Corp
Kingchem LLC
Marcor
Development Corp
Pangaea Sciences
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Wacker Chemical Corp

L-CYSTINE

Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Generichem Corp
Kingchem LLC
Marcor
Development Corp
Pangaea Sciences
Ruger Chemical Co
Scandinavian Formulas
Wacker Chemical Corp

L-LYSINE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
CellMark USA, LLC, Chemicals
Charles Bowman & Co
Evonik Corp, Health Care
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

L-PROLINE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Biolink Life Sciences
Evonik Corp, Health Care
Ruger Chemical Co
Scandinavian Formulas

L-SERINE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
Evonik Corp, Health Care
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

L-TRYPTOPHAN

Anmar Intl Ltd
Evonik Corp, Health Care
Ruger Chemical Co
Scandinavian Formulas

LACTALBUMIN HYDROLYSATE

Alfa Chem
Kerry
Marcor
Development Corp

LACTIC ACID

Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Vac-U-Max

LACTITOL, DIRECT COMPRESSION

Adept Solutions, World Headquarters

LACTITOL, MONOHYDRATE

Adept Solutions, World Headquarters
Asiameica Ingredients

LACTOFERRIN

Adept Solutions, World Headquarters
Alfa Chem
Marcor
Development Corp

LACTOPEROXIDASE

Worthington
Biochemical Corp

LACTOSE

Kerry
Mutchler
Pharmaceutical Ingredients

LACTOSE, DIRECT-COMPRESSION

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
DFE pharma
Kerry
Mutchler
Pharmaceutical Ingredients
Roquette America
Ruger Chemical Co

LACTOSE, EDIBLE

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Mutchler
Pharmaceutical Ingredients
Ruger Chemical Co

LACTULOSE

Alfa Chem
Asiameica Ingredients
Marcor
Development Corp
Ruger Chemical Co

LANOLIN

Alfa Chem
Asiameica Ingredients

Brenntag North America
Charles Bowman & Co
Croda, Health Care
Jedwards Intl
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

LANOLIN ALCOHOLS

Alfa Chem
Asiameica Ingredients
Charles Bowman & Co
Croda, Health Care
Ruger Chemical Co

LANOLIN BASES

Alfa Chem

LANOLIN OIL

Alfa Chem
Brenntag North America
Croda, Health Care
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

LANOLIN, WATER-SOLUBLE

Alfa Chem
Croda, Health Care
Ruger Chemical Co

LANTHANUM AND SALTS

Brenntag Specialties

LANTHANUM OXIDE

Brenntag Specialties

LARD OILS

Adept Solutions, World Headquarters

LAURIC ACID

Jedwards Intl
XenoTech

LAURYL ALCOHOL

Ruger Chemical Co

LAVENDER OIL

Alfa Chem
Arista Industries
Jedwards Intl
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

LEAD ACETATE

Alfa Aesar, A Johnson Matthey Co
Alfa Chem

LEAD COMPOUNDS

Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients

LEAD OXIDES

Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients

LEAD SULFATE

Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients

LECITHIN

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Jedwards Intl
KIC Chemicals

Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

LEMON OIL
Jedwards Intl

LEUCINE (D,L)
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Evonik Corp, Health Care
Scandinavian Formulas

LEUCO CRYSTAL VIOLET
Alfa Chem
Asiameica Ingredients

LEVAMISOLE HCL
Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

LEVOTHYROXINE SODIUM
Napp Technologies LLC

LEVULINIC ACID
Alfa Chem
KIC Chemicals

LEVULOSE
Adept Solutions, World Headquarters

LICORICE, LICORICE EXTRACTS
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

LIDAMIDINE
Asiameica Ingredients

LIDOCAINE HCL
AIC
Albemar Corp
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
CellMark USA, LLC, Chemicals
Napp Technologies LLC
Ruger Chemical Co

LINCOMYCIN HCL
Alfa Chem
Asiameica Ingredients

LINEAR PRIMARY ALCOHOL
Asiameica Ingredients

LINOLEIC ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag North America
Croda, Health Care
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

LIPASE
Alfa Chem
American Labs
Asiameica Ingredients
Marcor
Development Corp
Scandinavian Formulas

LITHIUM
Alfa Aesar, A Johnson
Matthey Co
FMC Lithium

LITHIUM ACETYLIDE
Asiameica Ingredients

LITHIUM ALUMINUM HYDRIDE
Alfa Chem
Asiameica Ingredients

LITHIUM CARBONATE
Alfa Aesar, A Johnson
Matthey Co
FMC Lithium
Parchem - Fine & Specialty Chemicals

LITHIUM CHLORIDE
Alfa Aesar, A Johnson
Matthey Co
FMC Lithium

LITHIUM CITRATE
Alfa Chem
Asiameica Ingredients
FMC Lithium

LITHIUM FLUORIDE
Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients
FMC Lithium

LITHIUM HEPARIN
Kraeber & Co GmbH

LITHIUM HYDROXIDE
Alfa Aesar, A Johnson
Matthey Co
FMC Lithium

LIVER CONCENTRATE
XenoTech

LIVER EXTRACT
Alfa Chem
American Labs
Asiameica Ingredients
XenoTech

LIVER PROTEIN FRACTION
American Labs
Asiameica Ingredients
XenoTech

LIVER, DESICCATED
Alfa Chem
American Labs
Asiameica Ingredients
Marcor
Development Corp

LIVER, WHOLE, DRIED POWDER
American Labs
Asiameica Ingredients

LOBELINE SULFATE
Asiameica Ingredients

LOCUST BEAN GUM
Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Gumix Intl
Ruger Chemical Co

LOPERAMIDE HCL
AIC
Asiameica Ingredients
INDOFINE Chemical Co
Isochem
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

LORATADINE
Hetero, Custom
Pharmaceutical Services

LORAZEPAM
Asiameica Ingredients
Evonik Corp, Health Care

LOVASTATIN
Alfa Chem
Boscogen

LOXAPINE SUCCINATE
Alfa Chem

LUCIFERIN
Regis Technologies

LYSINE MONO-HYDROCHLORIDE
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
Charles Bowman & Co
Evonik Corp, Health Care
Ruger Chemical Co
Scandinavian Formulas

M-NITROBENZOIC ACID
Richman Chemical
Scandinavian Formulas

MAGALDRATE
AIC
Boscogen
Generichem Corp

MAGNESIUM
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag Specialties
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM ACETATE
Avantor Performance Materials

MAGNESIUM ALUMINUM SILICATE
Alfa Chem
Brenntag Specialties
Fuji Health Science
Generichem Corp
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM BROMIDE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM CARBONATE
AIC

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Generichem Corp
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM CHLORIDE
Avantor Performance Materials
Jedwards Intl

MAGNESIUM CITRATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
Generichem Corp
Jost Chemical Co
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM FLUORIDE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Asiameica Ingredients
Scandinavian Formulas

MAGNESIUM GLUCONATE
Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Generichem Corp
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM GLYCEROPHOSPHATE
AIC
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

MAGNESIUM HYDROXIDE
Avantor Performance Materials

MAGNESIUM LACTATE
AIC
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Generichem Corp
Jost Chemical Co
Ruger Chemical Co

MAGNESIUM OROTATE
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp

MAGNESIUM OXIDE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Charles Bowman & Co
Generichem Corp
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM SALICYLATE
Alfa Chem
Asiameica Ingredients
CellMark USA, LLC, Chemicals
Generichem Corp
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM STEARATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
Brenntag Specialties
Generichem Corp
KIC Chemicals
Mutchler
Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM SULFATE (EPSOM SALTS)
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Barrington Nutritionals
Brenntag North America
Generichem Corp
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

MAGNESIUM SULFITE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

MAGNESIUM TRISILICATE
Alfa Chem
Generichem Corp
Ruger Chemical Co

MALIC ACID
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag North America
KIC Chemicals
Lonza
Parchem - Fine & Specialty Chemicals

Ruger Chemical Co
Scandinavian Formulas

MALTITOL SOLUTIONS
Adept Solutions, World Headquarters
Asiameica Ingredients
Mutchler Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Roquette America
Ruger Chemical Co

MALTODEXTRINS
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Grain Processing Corp
Mutchler Pharmaceutical Ingredients
Roquette America
Ruger Chemical Co
Scandinavian Formulas

MALTOSE, CRYSTALLINE
Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Marcor
Development Corp
Ruger Chemical Co
Scandinavian Formulas

MANGANESE CARBONATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Generichem Corp
Ruger Chemical Co
Scandinavian Formulas
Soltec Ventures

MANGANESE CHLORIDE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Soltec Ventures

MANGANESE GLUCONATE
Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Soltec Ventures

MANGANESE GLYCEROPHOSPHATE
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas
Soltec Ventures

MANGANESE LACTATE
AIC
Alfa Chem

Asiameica Ingredients
Generichem Corp
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas
Soltec Ventures

MANGANESE NITRATE

Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients
Scandinavian Formulas
Soltec Ventures

MANGANESE SULFATE

AIC
Jost Chemical Co
Soltec Ventures

MANNITOL, PYROGEN-FREE

Adept Solutions, World
Headquarters
Asiameica Ingredients
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co
Scandinavian Formulas

MAPROTILINE

Parchem - Fine &
Specialty Chemicals

MEBENDAZOLE

Alfa Chem
Parchem - Fine &
Specialty Chemicals

MEBHYDROLINE NAPADISILATE

Parchem - Fine &
Specialty Chemicals

MECLIZINE HCL

Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

MECLOFENAMATE SODIUM

Albemarle Corp

MEDROXYPROGESTERONE ACETATE

Alfa Chem
Parchem - Fine &
Specialty Chemicals

MEGESTROL ACETATE

Alfa Chem

MELATONIN

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
CellMark USA, LLC,
Chemicals
Marcor Development Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MENTHOL, RACEMIC

Alfa Chem
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MENTHYL ACETATE

Alfa Chem
PlusPharma
Scandinavian Formulas

MEPROBAMATE

Asiameica Ingredients

MERCURY

Asiameica Ingredients

METAXALONE

Boscogen
Hetero, Custom
Pharmaceutical
Services

METFORMIN HCL

Alfa Chem
Parchem - Fine &
Specialty Chemicals

METHACHOLINE CHLORIDE

Parchem - Fine &
Specialty Chemicals

METHANESULFONIC ACID, 70%

Alfa Aesar, A Johnson
Matthey Co
Arkema
Richman Chemical

METHANESULFONIC ACID, ANHYDROUS

Alfa Aesar, A Johnson
Matthey Co
Arkema
Richman Chemical

METHANOL

Alfa Chem
Avantor Performance
Materials
Brenntag North America
Ruger Chemical Co

METHENAMINE (HEXAMETHYLEN-TRIAMINE)

BASF Corp, G-ENP
CellMark USA, LLC,
Chemicals
Ruger Chemical Co

METHIMAZOLE

Asiameica Ingredients

METHIONINE

Evonik Corp, Health Care

METHOCARBAMOL

Adept Solutions, World
Headquarters
Parchem - Fine &
Specialty Chemicals

METHOTREXATE

Parchem - Fine &
Specialty Chemicals

METHOXSALEN

Parchem - Fine &
Specialty Chemicals

METHOXYPHEN-AMINE HCL

Adept Solutions, World
Headquarters
Asiameica Ingredients

METHYL 5-BROMONICOTINATE

Alfa Chem
Brenntag North America
CellMark USA, LLC,
Chemicals

METHYL ACETATE

Alfa Chem
Brenntag North America
CellMark USA, LLC,
Chemicals
LGM Pharma
Wacker Chemical Corp

For vendor contact information, see Company Directory section.

METHYL ACETOACETATE

Alfa Chem
Eastman Chemical Co

METHYL BENZOATE

Fontarome Chemical

METHYL BROMIDE

Albemarle Corp

METHYL CELLULOSE

Alfa Chem
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Biddle Sawyer Corp
Brenntag North America
Dow Pharma Solutions,
Dow Advanced
Materials
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

METHYL CHLORIDE

Alfa Chem
Electron Microscopy
Sciences

METHYL CINNAMATE

Alfa Chem
Asiameica Ingredients
Fontarome Chemical

METHYL CYCLOHEXANE-CARBOXYLATE

Adept Solutions, World
Headquarters

METHYL ETHYL KETONE

Alfa Chem
Arkema
Asiameica Ingredients
Brenntag North America
Eastman Chemical Co
Fontarome Chemical
Ruger Chemical Co

METHYL IODIDE

Alfa Chem

METHYL ISOBUTYL KETONE

Alfa Chem
Asiameica Ingredients
Brenntag North America
Fontarome Chemical
Ruger Chemical Co

METHYL LACTATE

Alfa Chem
Fontarome Chemical

METHYL PHENYL ACETATE

Fontarome Chemical

METHYL PHENYL ACETATE, TECHNICAL

Fontarome Chemical

METHYL PHENYL CARBINOL, STYRALYLALCOHOL

Adept Solutions, World
Headquarters
Alfa Chem

METHYL SALICYLATE

Alfa Chem
Asiameica Ingredients

CellMark USA, LLC,
Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

METHYL SULFIDE

Alfa Chem
Arkema
Scandinavian Formulas

METHYL TESTOSTERONE

Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

METHYLENE BLUE

Alfa Chem
Ruger Chemical Co

METHYLENE CHLORIDE

Brenntag North America

METHYLLITHIUM

Asiameica Ingredients

METHYL-P-HYDROXY-BENZOATE

Avantor Performance
Materials
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co

METHYLPHENIDATE HCL

BASF Corp, G-ENP

METHYLRESORCINOL

Napp Technologies LLC
Ruger Chemical Co

METOCLOPRAMIDE

Novasep

METOPROLOL SUCCINATE

Boscogen

METOPROLOL TARTRATE

Alfa Chem
Boscogen
Parchem - Fine &
Specialty Chemicals

MICONAZOLE NITRATE/BASE

AIC
Alfa Chem
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Isochem
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

MICROCRYSTALLINE CELLULOSE

Blanver

MICROCRYSTALLINE WAX

Alfa Chem
Asiameica Ingredients
Brenntag Specialties
Mutchler Pharmaceutical
Ingredients

Ruger Chemical Co
Scandinavian Formulas
Sonneborn LLC
Strahl & Pitsch

MICROSPHERES

Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Bangs Labs
Biddle Sawyer Corp
Boscogen
Glatt Pharmaceutical
Services
Ruger Chemical Co

MIDODRINE

Scandinavian Formulas

MINERAL OIL, HEAVY

Arista Industries
Sonneborn LLC

MINERAL OIL, LIGHT

Adept Solutions, World
Headquarters
Alfa Chem
Arista Industries
Brenntag North
America
MultiTherm LLC
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Sonneborn LLC
Strahl & Pitsch

MINK OIL

Alfa Chem
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas

MINOXIDIL

Alfa Chem
Asiameica Ingredients
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals

MOLYBDENUM POWDER

Asiameica Ingredients

MOLYBDENUM TRIOXIDE

Alfa Chem

MONOAMMONIUM GLYCYRRHIZINATE

Adept Solutions, World
Headquarters

MONOAMMONIUM PHOSPHATE

Alfa Chem
Brenntag North
America
Parchem - Fine &
Specialty Chemicals

MONOCALCIUM PHOSPHATE, MONOHYDRATE

AIC
Brenntag North America

MONOCLONAL ANTIBODIES

Lampire Biological Labs
Scripps Labs
XenoTech

MONOETHANOL-AMINE

Ruger Chemical Co

MONOGLYCINE PHOSPHATE

Adept Solutions, World
Headquarters

MONOMAGNESIUM PHOSPHATE

Biologos

MONOPOTASSIUM PHOSPHATE

AIC
Biologos
Brenntag North America

MONOSACCHARIDES

Adept Solutions, World
Headquarters
Brenntag North America
PYRAMID Labs
Scandinavian Formulas

MONOSODIUM CITRATE

Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals

MONOSODIUM GLUTAMATE

Alfa Chem
Brenntag North America
Helm New York
Ruger Chemical Co

MORPHOLINE

Brenntag North America

MUCOPOLY-SACCHARIDES

Adept Solutions, World
Headquarters
American Labs
Kraeber & Co GmbH
Marcor
Development Corp

MYRISTYL ALCOHOL

Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

MYRISTYL TRIMETHYL AMMONIUM BROMIDE

Albemarle Corp
Scandinavian Formulas

N-(2-ACETAMIDO) IMINODIACETIC ACID (ADA)

Alfa Chem

N-ACETYL-GLUCOSAMINE

Adept Solutions, World
Headquarters
Alfa Chem
Anmar Intl Ltd
Kraeber & Co GmbH
Marcor
Development Corp

N-ACETYL-METHIONINE (D,L)

Alfa Chem

N-AMYL ALCOHOL

Adept Solutions, World
Headquarters
Alfa Chem

Ruger Chemical Co
**Spectrum Chemical
Mfg Corp**

N-BENZYL-3-CARBETHOXY-4-PIPERIDONE
Alfa Chem
Kingchem LLC
Scandinavian Formulas

N-BENZYL-4-PIPERIDONE
Kingchem LLC

N-BROMOSUCCINIMIDE
Albemarle Corp
Asiameica Ingredients
Richman Chemical

N-BUTYLLITHIUM
FMC Lithium

N-CARBETHOXY-4-PIPERIDONE
Alfa Chem
Kingchem LLC

N-DOCECENYL SUCCINIC ANHYDRIDE
Albemarle Corp
Asiameica Ingredients
Lonza
Parchem - Fine & Specialty Chemicals

N-FORMYLGLYCINE ETHYL ESTER
Asiameica Ingredients

N-METHYL ETHANOLAMINE
Arkema

N-METHYL PYRROLIDONE
Ashland, Ashland
Specialty Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

N-METHYL-4-CHLOROPIPERIDINE
INDOFINE Chemical Co

N-OCTADECENYL SUCCINIC ANHYDRIDE
Albemarle Corp
Asiameica Ingredients

N-OCTENYL SUCCINIC ANHYDRIDE
Albemarle Corp
Parchem - Fine & Specialty Chemicals

NABUMETONE
Hetero, Custom
Pharmaceutical
Services

NALTREXONE
Parchem - Fine & Specialty Chemicals

NANDROLONE DECANOATE
Parchem - Fine & Specialty Chemicals

NAPROXEN
AIC
Albemarle Corp

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

NEOMYCIN SULFATE
AIC
Alfa Chem
Asiameica Ingredients
Biologos
Helm New York

NEOSTIGMINE (BROMIDE AND METHYL SULPHATE)
DSM Pharmaceuticals
Products

NIACIN (NICOTINIC ACID), VITAMIN AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
CellMark USA, LLC,
Chemicals
Charles Bowman & Co
DSM Nutritional
Products LLC
Generichem Corp
Helm New York
LGM Pharma
Lonza
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

NIACINAMIDE
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
CellMark USA, LLC,
Chemicals
Charles Bowman & Co
DSM Nutritional
Products LLC
Generichem Corp
Helm New York
Lonza
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

NIACINAMIDE ASCORBATE
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
DSM Nutritional
Products LLC
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

NICKEL CHLORIDE
AIC
Alfa Chem

NICKEL NITRATE
AIC
Ruger Chemical Co

NICKEL SULFATE
Ruger Chemical Co

NICOTINE
Adept Solutions, World
Headquarters
Alfa Chem
Ruger Chemical Co

NICOTINIC ACID
Adept Solutions, World
Headquarters
Alfa Chem
Charles Bowman & Co
DSM Nutritional
Products LLC
Ruger Chemical Co

NIFEDIPINE
Alfa Chem
Boscogen
Evonik Corp, Health
Care

NIGROSINE
Alfa Chem

NIOBUM SALTS
Soltec Ventures

NIOTINAMIDE
Alfa Chem
Asiameica Ingredients

NITRAZEPAM
PlusPharma

NITRIC ACID
Alfa Chem
Brenntag North America

NITROFURANTOIN
Alfa Chem

NITROFURAZONE
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

NONOXYNOL-10
Ruger Chemical Co

NONOXYNOL-9
Ruger Chemical Co

NORFLOXACIN
Alfa Chem
Parchem - Fine & Specialty Chemicals

NORTRIPTYLINE HCL
Asiameica Ingredients
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

NOSCAPINE
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

NUCLEIC ACID
Worthington
Biochemical Corp

NUCLEOTIDES
Arista Industries

NUTMEG OIL
Adept Solutions, World
Headquarters
Arista Industries
Ruger Chemical Co
Scandinavian Formulas

NYSTATIN
Alfa Chem
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

O-AMINO BENZOIC ACID
Alfa Aesar, A Johnson
Matthey Co

Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas

O-AMINOTHIOPHENOL
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

O-ANISALDEHYDE, TECHNICAL
Alfa Chem
INDOFINE Chemical Co

O-CHLOROBENZOIC ACID
Alfa Chem

O-TOLUIDINE
Alfa Aesar, A Johnson
Matthey Co

OCTANOL
Asiameica Ingredients
Scandinavian Formulas

OCTOXYNOL-9
Asiameica Ingredients
Ruger Chemical Co

OIL, OTHERS
ABITEC Corp
Adept Solutions, World
Headquarters
Arista Industries
Jedwards Intl
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

OLEIC ACID
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Croda, Health Care
Jedwards Intl
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

OLEOYL ALCOHOL
Croda, Health Care

OLIGONUCLEOTIDES
Agilent Technologies
Alfa Chem

OLIGOSACCHARIDES
Adept Solutions, World
Headquarters

OLIVE OIL
Alfa Chem
Arista Industries
Brenntag North America
Croda, Health Care
Jedwards Intl
KIC Chemicals
Mutchler Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

OMEPRAZOLE
Alfa Chem
Hetero, Custom
Pharmaceutical
Services
XenoTech

ORANGE FLOWER OIL
Scandinavian Formulas

ORANGE OIL
Adept Solutions, World
Headquarters
Alfa Chem
Arista Industries
Jedwards Intl
KIC Chemicals
Scandinavian Formulas

ORANGE PEEL TINCTURE, SWEET
Adept Solutions, World
Headquarters
Asiameica Ingredients
Scandinavian Formulas

ORCEIN
Asiameica Ingredients

OROTIC ACID
AIC
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

ORPHENADRINE CITRATE
Albemarle Corp

ORPHENADRINE HCL
Albemarle Corp

OSMIUM TETROXIDE
Alfa Aesar, A Johnson
Matthey Co
Electron Microscopy
Sciences

OXACILLIN SODIUM STERILE MONOHYDRATE
Asiameica Ingredients
PlusPharma

OXALIC ACID
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

OXALYL CHLORIDE
CellMark USA, LLC,
Chemicals
Richman Chemical

OXIDIZERS: REGENERATIVE, RECUPERATIVE, CATALYTIC
Anquil Environmental
Systems

OXYBUTYRIN CHLORIDE
BASF Corp, G-ENP

OXYMETAZOLINE HCL
BASF Corp, G-ENP
Parchem - Fine & Specialty Chemicals

OXYMETHOLONE
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

OXYTETRACYCLINE
AIC
Alfa Chem
Asiameica Ingredients
Helm New York

OXYTOCIN
GDL Intl

OYSTER SHELL POWDER
Alfa Chem
Asiameica Ingredients
Barrington Nutritionals
CellMark USA, LLC,
Chemicals

P-AMINOHIPPURIC ACID
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas

P-CHLOROBENZO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-CHLORO-M-CRESOL
CellMark USA, LLC,
Chemicals
Ruger Chemical Co

P-CHLOROACETO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-CHLOROBENZOIC ACID
Alfa Chem

P-ETHOXYBENZOIC ACID
INDOFINE Chemical Co

P-FLUOROANILINE
INDOFINE Chemical Co
Kingchem LLC

P-HYDROXYACETO-PHENONE
Alfa Chem
Richman Chemical

P-HYDROXYBENZOIC ACID
Napp Technologies LLC

P-METHOXY-PHENYLACETIC ACID
Alfa Chem
INDOFINE Chemical Co

P-METHYL ACETOPHENONE
INDOFINE Chemical Co
Richman Chemical

P-TOLUENESULFONIC ACID
Alfa Aesar, A Johnson
Matthey Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Parchem - Fine & Specialty Chemicals

P-TOLUENE-SULFONYL CHLORIDE
Alfa Aesar, A Johnson
Matthey Co
CellMark USA, LLC,
Chemicals

PACLITAXEL
LGM Pharma
Novasep
Soltec Ventures
XenoTech

For vendor contact information, see Company Directory section.

- PALLADIUM SALTS**
Alfa Aesar, A Johnson
Matthey Co
- PALMITIC ACID**
Alfa Chem
Brenntag North America
Jedwards Intl
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
- PAMABROM**
AIC
- PAMOIC ACID**
Alfa Chem
- PANCREASE ENZYME**
Alfa Chem
American Labs
Asiameica Ingredients
Marcor
Development Corp
Pangaea Sciences
- PANCREATIN**
Alfa Chem
American Labs
Asiameica Ingredients
CellMark USA, LLC,
Chemicals
Marcor
Development Corp
Ruger Chemical Co
- PANTETHINE**
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
Parchem - Fine &
Specialty Chemicals
- PANTOTHENIC ACID**
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
Ruger Chemical Co
- PAPAIN**
Alfa Chem
American Labs
Asiameica Ingredients
Marcor
Development Corp
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Worthington
Biochemical Corp
- PAPAVERINE HCL**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
- PARA-AMINOHIPPURIC ACID**
Alfa Chem
Asiameica Ingredients
- PARAFFIN, LIQUID (MINERAL OIL)**
Alfa Chem
Aptalis Pharmaceutical
Technologies
Brenntag Specialties
- MultiTherm LLC
Mutchler Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Sonneborn LLC
Strahl & Pitsch
- PARAFORMALDEHYDE**
Alfa Chem
- PEANUT OIL**
Arista Industries
Croda, Health Care
- PECTIN**
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
- PENICILLIN G POTASSIUM**
Alfa Chem
Asiameica Ingredients
Helm New York
- PENICILLIN G PROCAINE**
Alfa Chem
Asiameica Ingredients
- PENTAERYTHRITOL**
Parchem - Fine &
Specialty Chemicals
- PENTOXIFYLLINE**
Parchem - Fine &
Specialty Chemicals
- PEPPERMINT**
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas
- PEPPERMINT OIL**
Arista Industries
Jedwards Intl
- PEPPERMINT SPIRIT**
Alfa Chem
Scandinavian Formulas
- PEPTIDES**
Evonik Corp, Health
Care
Scandinavian Formulas
- PEPTIDES, SYNTHETIC**
Evonik Corp, Health
Care
Scandinavian Formulas
- PEPTONES**
Alfa Chem
American Labs
Marcor
Development Corp
- PERSIC OIL**
Arista Industries
Ruger Chemical Co
Scandinavian Formulas
- PETROLATUM, WHITE (PARAFFIN, WHITE SOFT)**
Sonneborn LLC
- PETROLATUM, YELLOW**
Alfa Chem
Brenntag North America
Ruger Chemical Co
Sonneborn LLC
- PHARMACEUTICAL GLAZES**
Adept Solutions, World
Headquarters
Colorcon
- PHENAZOPYRIDINE HCL**
Alfa Chem
- PHENINDIONE**
Asiameica Ingredients
- PHENOBARBITAL**
Asiameica Ingredients
Ruger Chemical Co
- PHENOBARBITAL SODIUM**
Asiameica Ingredients
Ruger Chemical Co
- PHENOL**
Asiameica Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
- PHENOLPHTHALEIN**
CellMark USA, LLC,
Chemicals
Ruger Chemical Co
- PHENOTHIAZINE**
Parchem - Fine &
Specialty Chemicals
- PHENYL ACETATE**
Alfa Chem
Richman Chemical
Scandinavian Formulas
- PHENYL ACETYLENE**
FAR Chemical
Scandinavian Formulas
- PHENYL BUTAZONE**
Aptalis Pharmaceutical
Technologies
Scandinavian Formulas
- PHENYL SALICYLATE**
Alfa Chem
CellMark USA, LLC,
Chemicals
Ruger Chemical Co
Scandinavian Formulas
- PHENYL ACETALDEHYDE DIMETHYLACETAL**
Scandinavian Formulas
- PHENYLACETONI-TRILE**
Arkema
- PHENYL ACETYL CHLORIDE**
Scandinavian Formulas
- PHENYLALANINE (D,L)**
Alfa Aesar, A Johnson
Matthey Co
Anmar Intl Ltd
Asiameica Ingredients
Scandinavian Formulas
- PHENYLEPHRINE HCL**
AIC
Boscogen
CellMark USA, LLC,
Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
PlusPharma
- PHENYLTOL-OXAMINE CITRATE**
CellMark USA, LLC,
Chemicals
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
- PHENYTOIN**
Generichem Corp
- PHLOROGLUCINOL DIHYDRATE**
DSM Pharmaceuticals
Products
INDOFINE Chemical Co
- PHLOROGLUCINOL, ANHYDROUS**
DSM Pharmaceuticals
Products
INDOFINE Chemical Co
Isochem
- PHOSPHATIDYL CHOLINE**
Alfa Chem
- PHOSPHATIDYL GLYCERYL**
Alfa Chem
- PHOSPHOLIPIDS**
Alfa Chem
Pion
Ruger Chemical Co
- PHOSPHORIC ACID**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Brenntag North
America
Ruger Chemical Co
- PHOSPHORUS OXYCHLORIDE**
Alfa Aesar, A Johnson
Matthey Co
Brenntag North
America
- PHOSPHORUS PENTOXIDE**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Brenntag North
America
- PHOSPHORUS TRICHLORIDE**
Alfa Aesar, A Johnson
Matthey Co
Brenntag North
America
- PHTHALIC ACID DIETHYL ESTER**
Scandinavian Formulas
- PHTHALIC ANHYDRIDE**
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- PHTHALYL-SULFACETAMIDE**
Generichem Corp
- PHTHALYLSULFATHIAZOLE**
Generichem Corp
- PHYLLQUINONE**
DSM Nutritional
Products LLC
- PICOLINIC ACID**
Alfa Chem
CellMark USA, LLC,
Chemicals
Richman Chemical
Ruger Chemical Co
- PILOCARPINE**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
PlusPharma
- PILOCARPINE HCL**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- PINDOLOL**
Parchem - Fine &
Specialty Chemicals
- PINE NEEDLE OIL**
KIC Chemicals
Scandinavian Formulas
- PINE TAR**
Ruger Chemical Co
Scandinavian Formulas
- PIPERACILLIN SODIUM, STERILE**
Alfa Chem
- PIPERAZINE**
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Scandinavian Formulas
- PIPERAZINE CITRATE**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
Scandinavian Formulas
- PIPERAZINE HEXAHYDRATE**
Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas
- PIPERAZINE TARTRATE**
Alfa Chem
Scandinavian Formulas
- PIPERIDINE**
Alfa Aesar, A Johnson
Matthey Co
Scandinavian Formulas
- PIROXICAM**
Alfa Chem
Parchem - Fine &
Specialty Chemicals
- PLACENTA EXTRACT**
Kraeber & Co GmbH
Marcor Development Corp
- PLATINUM AND SALTS**
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures
- POLY (D,L) LACTIC ACID**
Brenntag North America
DURECT Corp, LACTEL
Absorbable Polymers
Evonik Corp, Health
Care
Ortec
- POLY (D,L) LACTIC CO-GLYCOLIC ACID**
Adept Solutions, World
Headquarters
DURECT Corp, LACTEL
Absorbable Polymers
Evonik Corp, Health
Care
Ortec
- POLY (L) LACTIC ACID**
Brenntag North America
DURECT Corp, LACTEL
Absorbable Polymers
Evonik Corp, Health
Care
Ortec
- POLY(LACTIC ACID)**
Brenntag North America
DURECT Corp, LACTEL
Absorbable Polymers
Evonik Corp, Health
Care
Ortec
- POLYCAPRO-LACTONE**
DURECT Corp, LACTEL
Absorbable Polymers
Ortec
- POLYETHYLENE GLYCOL ESTERS**
ABITEC Corp
Adept Solutions, World
Headquarters
BASF Corp, G-ENP
Biolink Life Sciences
Brenntag North America
Eastman Chemical Co
Lonza
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas
- POLYETHYLENE GLYCOL MONOLAURATE**
ABITEC Corp
Adept Solutions, World
Headquarters
Brenntag North America
Lonza
Ruger Chemical Co
Scandinavian Formulas
- POLYETHYLENE GLYCOL MONOSTEARATE (POLYOXYL 40 STEARATE)**
ABITEC Corp
Adept Solutions, World
Headquarters
Brenntag North America
Lonza
Ruger Chemical Co
Scandinavian Formulas

POLYETHYLENE GLYCOLS

Adept Solutions, World Headquarters
Alfa Chem
Avantor Performance Materials
BASF Corp, G-ENP
Bioliink Life Sciences
Mutchler Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

POLYETHYLENE OXIDE

Dow Pharma Solutions, Dow Advanced Materials

POLYGLUCOSIDES

Adept Solutions, World Headquarters

POLYGLYCEROL FATTY ACID ESTERS

Adept Solutions, World Headquarters
Croda, Health Care
Lonza

POLYGLYCOLIC ACID

Adept Solutions, World Headquarters
DURECT Corp, LACTEL Absorbable Polymers
Evonik Corp, Health Care
Ortec

POLYMER DELIVERY SYSTEMS

Evonik Corp, Health Care

POLYMER FILMS, HYDROPHILIC

BASF Corp, G-ENP
Roquette America

POLYMER FILMS, HYDROPHOBIC

BASF Corp, G-ENP
Eastman Chemical Co

POLYMERS, CROSS-LINKED

Adept Solutions, World Headquarters
Agilent Technologies
Bangs Labs
BASF Corp, G-ENP
Lubrizol Advanced Materials

POLYMERS, SUPERABSORBENT

Adept Solutions, World Headquarters
Agilent Technologies
Ruger Chemical Co

POLYMYXIN B SULFATE

AIC

POLYOXYETHYLENE FATTY ESTERS

ABITEC Corp
Croda, Health Care
Ruger Chemical Co

POLYOXYETHYLENE GLYCOLS

ABITEC Corp
Adept Solutions, World Headquarters

BASF Corp, G-ENP
Bioliink Life Sciences
Ruger Chemical Co

POLYPEPTIDES

Evonik Corp, Health Care

POLYPROPYLENE GLYCOLS

ABITEC Corp
Adept Solutions, World Headquarters
Brenntag North America
Ruger Chemical Co

POLYSORBATES

Avantor Performance Materials
Croda, Health Care

POLYVINYL ALCOHOL

Adept Solutions, World Headquarters
BASF Corp, G-ENP
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

POLYVINYL-PYRROLIDONE

AIC
Alfa Chem
Anmar Intl Ltd
BASF Corp, G-ENP
Biddle Sawyer Corp
Generichem Corp
Mutchler
Pharmaceutical Ingredients
Napp Technologies LLC
Ruger Chemical Co

POTASSIUM

Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients
Scandinavian Formulas

POTASSIUM ACETATE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM ALGINATE

AIC
Alfa Chem
Asiameica Ingredients

POTASSIUM AMINO BENZOATE

Alfa Chem
Asiameica Ingredients
Generichem Corp
Scandinavian Formulas

POTASSIUM BENZOATE

AIC

POTASSIUM BICARBONATE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag North America
Mutchler
Pharmaceutical Ingredients
Ruger Chemical Co

Scandinavian Formulas
Vac-U-Max

POTASSIUM BIFLUORIDE

Alfa Aesar, A Johnson
Matthey Co
Arkema

POTASSIUM BITARTRATE (CREAM OF TARTAR)

CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM BROMATE

AIC
Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

POTASSIUM CARBONATE

Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Brenntag North America
Jost Chemical Co
Mutchler
Pharmaceutical Ingredients
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM CHLORIDE

AIC
Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance Materials
Brenntag North America
Morton Salt
Mutchler
Pharmaceutical Ingredients
Pharmsolv LLC
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM CITRATE

AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Generichem Corp
Jost Chemical Co
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM CYANIDE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

POTASSIUM FERRICYANIDE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

POTASSIUM FORMATE

Albemarle Corp
Alfa Chem
Asiameica Ingredients

POTASSIUM GLUCONATE

Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Generichem Corp
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM GLYCEROPHOSPHATE

Alfa Chem
Asiameica Ingredients

POTASSIUM HYDROXIDE

Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Mutchler
Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM IODATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
CellMark USA, LLC, Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM IODIDE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

POTASSIUM LACTATE

AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Generichem Corp
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM NITRATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients
Avantor Performance Materials
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM OXALATE

AIC
Alfa Aesar, A Johnson
Matthey Co

Alfa Chem
CellMark USA, LLC, Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM PERMANGANATE

AIC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Vac-U-Max

POTASSIUM PHOSPHATE, DIBASIC

AIC
Brenntag North America
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

POTASSIUM PHOSPHATE, MONOBASIC

AIC
Alfa Chem
Avantor Performance Materials
Brenntag North America
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

POTASSIUM SALICYLATE

Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM SILICOFLUORIDE

Alfa Chem
Scandinavian Formulas

POTASSIUM SORBATE

Adept Solutions, World Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Helm New York
KIC Chemicals
Nutrinova GmbH
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem

POTASSIUM STEARATE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Generichem Corp
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM SULFAMATE

Adept Solutions, World Headquarters
Scandinavian Formulas

POTASSIUM SULFATE

Adept Solutions, World Headquarters
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

Asiameica Ingredients
Jost Chemical Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

POTASSIUM TETRABORATE

Alfa Aesar, A Johnson
Matthey Co
Brenntag North America
Scandinavian Formulas

POTASSIUM THIOCYANATE

AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Avantor Performance Materials
Scandinavian Formulas

POTASSIUM THIOSULFATE

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Avantor Performance Materials
CellMark USA, LLC, Chemicals
Ruger Chemical Co
Scandinavian Formulas

POVIDONE

AIC
Alfa Chem
Anmar Intl Ltd
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
CellMark USA, LLC, Chemicals
Generichem Corp
Mutchler Pharmaceutical Ingredients
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

POVIDONE-IODINE USP

Marcus Research Lab

PRAMOXINE HCL

Abbott Labs, Global
Pharmaceutical Operations
Alfa Chem
Anmar Intl Ltd
CellMark USA, LLC, Chemicals
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

PRAVASTATIN

Alfa Chem

PRAZQUANTEL

Alfa Chem
Helm New York
Parchem - Fine & Specialty Chemicals

PRAZOSIN HCL

Boscogen
Parchem - Fine & Specialty Chemicals

PREDNISOLONE ACETATE

Alfa Chem
Parchem - Fine & Specialty Chemicals

For vendor contact information, see Company Directory section.

PREDNISOLONE

BASE
Alfa Chem
Parchem - Fine & Specialty Chemicals

PREDNISOLONE

SODIUM PHOSPHATE
Alfa Chem

PREDNISON

Alfa Chem
Anmar Intl Ltd
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

PREGELATINIZED STARCH

Asahi Kasei Chemical Corp/Asahi Kasei America, Functional Additives Div
Grain Processing Corp
Mutchler
Pharmaceutical Ingredients

PREGNENOLONE

Alfa Chem
Asiameica Ingredients
Marcor
Development Corp
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

PRENYLAMINE LACTATE

Alfa Chem

PRILOCAINE HCL

AIC
BASF Corp, G-ENP

PRIMIDONE

Parchem - Fine & Specialty Chemicals

PROBENICID

Alfa Chem
Parchem - Fine & Specialty Chemicals
PlusPharma

PROCAINAMIDE HCL

Albemarle Corp

PROCAINE

AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Ruger Chemical Co

PROCATEROL

Adept Solutions, World Headquarters

PROCHLORPER-AZINE DIMALEATE

Parchem - Fine & Specialty Chemicals

PROGESTERONE

Asiameica Ingredients
Kingchem LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

PROMAZINE HCL

Alfa Chem

PROPAFENONE HCL

Parchem - Fine & Specialty Chemicals

PROPARGYL

ALCOHOL
Alfa Chem

PROPARGYL BROMIDE

Albemarle Corp

PROPIONIC ACID

Alfa Chem
Brenntag North America
Eastman Chemical Co

PROPIONIC ANHYDRIDE

Alfa Chem
Eastman Chemical Co

PROPIOPHENONE

Alfa Chem

PROPOXYPHENE HCL

Brenntag North America

PROPRANOLOL

Albemarle Corp
Aptalis Pharmaceutical Technologies
Asiameica Ingredients

PROPRANOLOL HCL

Albemarle Corp
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

PROPYL GALLATE

Brenntag North America
CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Richman Chemical
Ruger Chemical Co

PROPYL PROPIONATE

Adept Solutions, World Headquarters
Fontarome Chemical
Scandinavian Formulas

PROPYLENE GLYCOL

Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

PROPYLENE GLYCOL ALGINATE

Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
FMC Corp, FMC
BioPolymer

PROPYLENE GLYCOL FATTY ACID ESTERS

ABITEC Corp
Croda, Health Care
Mutchler
Pharmaceutical Ingredients

PROPYLENE GLYCOL MONOSTEARATE

ABITEC Corp
Adept Solutions, World Headquarters
Brenntag North America
Ruger Chemical Co

PROPYLPARABEN

Alfa Chem
KIC Chemicals
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

PROTECTING AGENTS

Adept Solutions, World Headquarters
Albemarle Corp
Sensient Pharmaceutical

PROTEIN ADSORBENTS

Adept Solutions, World Headquarters
Alfa Chem

PROTEIN BASES

Adept Solutions, World Headquarters
Alfa Chem
American Labs

PROTEIN DERIVATIVES

Adept Solutions, World Headquarters

PROTEIN HYDROLYSATES

Kerry

PROTEIN NUTRIENTS

Alfa Chem
PB Leiner USA
Pharmsolv LLC

PROTEINS

Adept Solutions, World Headquarters
Alfa Chem
American Labs
Da-Ta BioTech Ltd
Lampire Biological Labs
PB Leiner USA
Roquette America
Ruger Chemical Co
Scripps Labs
Worthington
Biochemical Corp

PSEUDOEPHEDRINE HCL

Aptalis Pharmaceutical Technologies
Asiameica Ingredients
BASF Corp, G-ENP
CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Pharmsolv LLC
PlusPharma
Ruger Chemical Co

PSEUDOEPHEDRINE SULFATE

Asiameica Ingredients
BASF Corp, G-ENP
PlusPharma
Ruger Chemical Co

PSYLLIUM SEED (PLANTAGO SEED)

AIC
Alfa Chem
Asiameica Ingredients
Barrington Nutritional
Charles Bowman & Co
Scandinavian Formulas

PVP/VA COPOLYMERS

Adept Solutions, World Headquarters

AIC

Alfa Chem
BASF Corp, G-ENP
Generichem Corp

PYRANTEL PAMOATE

AIC

PYRANZINAMIDE

Alfa Chem

PYRIDINE

Alfa Chem

PYRILAMINE MALEATE (MEPYRAMINE)

Asiameica Ingredients
CellMark USA, LLC, Chemicals
Lonza
Marcor
Development Corp
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

PYROGALLIC ACID

CellMark USA, LLC, Chemicals

PYRUVIC ACID

Alfa Chem
Asiameica Ingredients
Biologos
Parchem - Fine & Specialty Chemicals

PYRUVIC ACID ETHYL ESTER

Alfa Chem

QUINIDINE GLUCONATE

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

QUINIDINE SULFATE

Alfa Chem
Asiameica Ingredients

QUININE HYDROCHLORIDE

Alfa Chem
Asiameica Ingredients

QUININE SULFATE

Alfa Chem
Asiameica Ingredients
CellMark USA, LLC, Chemicals

RAMIPRIL

Hetero, Custom
Pharmaceutical Services

RANITIDINE HCL

Alfa Chem
Asiameica Ingredients

REAGENT CHEMICALS

Agilent Technologies
Avantor Performance Materials

RESORCINOL

Alfa Chem
Kraeber & Co GmbH
Napp Technologies LLC
Richman Chemical
Ruger Chemical Co

RESORCINOL MONOACETATE

Alfa Chem
Kraeber & Co GmbH
Ruger Chemical Co

RETINOIC ACID (TRETINOIN)

Alfa Chem
BASF Corp, G-ENP
DSM Nutritional Products LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

RHAMNOSE

Adept Solutions, World Headquarters
Marcor
Development Corp
Parchem - Fine & Specialty Chemicals

RIBAVIRIN

Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

RIBOFLAVIN SODIUM PHOSPHATE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritional
Brenntag North America
Charles Bowman & Co
DSM Nutritional Products LLC
Scandinavian Formulas

RIBONUCLEASE

Alfa Chem
Worthington
Biochemical Corp

RIBONUCLEIC ACID

Alfa Chem
Charles Bowman & Co
Marcor
Development Corp
Worthington
Biochemical Corp

RICE SYRUP SOLIDS

Adept Solutions, World Headquarters
Alfa Chem

RIFAMPIN

Alfa Chem
Scandinavian Formulas

RIFAMYCIN

Alfa Chem

RISPERIDONE

Alfa Chem

ROCHELLE SALTS

Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

ROSE BENGAL

Scandinavian Formulas

ROSE OIL

Alfa Chem
Arista Industries
Jedwards Intl
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas

ROSIN

Alfa Chem
Ruger Chemical Co

ROXITHROMYCIN

Alfa Chem

RUBIDIUM SALTS

Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

RUTHENIUM SALTS

Alfa Aesar, A Johnson
Matthey Co

RUTIN

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Generichem Corp
Marcor Development Corp
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

S-(+)-IBUPROFEN

Albemarle Corp

SACCHARIN SODIUM

Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
CellMark USA, LLC, Chemicals
Helm New York
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem

SAFFLOWER OIL

Arista Industries
Brenntag North America
Croda, Health Care
Jedwards Intl
KIC Chemicals
Ruger Chemical Co
Scandinavian Formulas

SAFRANINE

Alfa Chem

SAFROLE

Alfa Chem

SALICYL ALCOHOL

Alfa Chem

SALICYLAMIDE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
CellMark USA, LLC, Chemicals

SALICYLIC ACID

Alfa Chem
Asiameica Ingredients
Brenntag North America
CellMark USA, LLC, Chemicals
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SAMARIUM SALTS

Brenntag Specialties
Soltec Ventures

SCOPOLAMINE BROMIDE

Alfa Chem
Parchem - Fine & Specialty Chemicals

SCOPOLAMINE HYDROBROMIDE
Alfa Chem

SEALANTS
Alfa Chem

SEC-BUTYLLITHIUM
FMC Lithium

SECURITY, BRAND PROTECTION
Alfa Chem
Sensient
Pharmaceutical

SELENIOS ACID
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

SELENIUM DIOXIDE
Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients

SELENIUM ON YEAST
AIC
Alfa Chem
Asiameica Ingredients
Generichem Corp

SELENIUM SALTS
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Soltec Ventures

SELENIUM YEAST
AIC
Alfa Chem
Asiameica Ingredients
Parchem - Fine &
Specialty Chemicals

SEMICARBAZIDE HCL
Alfa Chem

SENNA
Alfa Chem
Anmar Intl Ltd
Barrington Nutritionals
CellMark USA, LLC,
Chemicals

SENNOSIDES
Alfa Chem
Barrington Nutritionals

SERUM PRODUCTS, ANIMAL
Biologos
Electron Microscopy
Sciences
Kraeber & Co GmbH
Scripps Labs

SERUM PRODUCTS, HUMAN
Electron Microscopy
Sciences
Scripps Labs

SESAME OIL
Adept Solutions, World
Headquarters
Alfa Chem
Arista Industries
Asiameica Ingredients
Croda, Health Care
Jedwards Intl
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SHARK LIVER OIL
Arista Industries
Jedwards Intl

SILANES
Alfa Aesar, A Johnson
Matthey Co
Brenntag Specialties
FAR Chemical
Momentive
Performance Materials
Ruger Chemical Co
Wacker Chemical Corp

SILICA
AIC
Alfa Chem
Bangs Labs
Charles B Chrystal
Evonik Industries AG
Mutchler Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

SILICA GEL
Arkema
Avantor Performance
Materials
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SILICIC ACID
Scandinavian Formulas

SILICONE ELASTOMERS
NuSil Technology

SILICONE FLUID
Brenntag North America
Momentive
Performance Materials
NuSil Technology
Ruger Chemical Co
Scandinavian Formulas
Siovation LLC

SILOXANE, METHYLATED CYCLIC (CYCLOMETHICONE)
Momentive
Performance Materials
Ruger Chemical Co
Scandinavian Formulas
Siovation LLC

SILVER (METAL)
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

SILVER ACETATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Soltec Ventures

SILVER BROMIDE
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

SILVER CHLORIDE
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

SILVER CYANIDE
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

SILVER IODIDE
Alfa Aesar, A Johnson
Matthey Co
Soltec Ventures

SILVER NITRATE
Avantor Performance
Materials

SILVER OXIDE
Alfa Aesar, A Johnson
Matthey Co
Arkema
Soltec Ventures

SILVER SULFADIAZINE
Alfa Aesar, A Johnson
Matthey Co
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Soltec Ventures

SILVER SULFATE
Alfa Aesar, A Johnson
Matthey Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures

SILYLATING AGENTS
Momentive
Performance Materials
Soltec Ventures
Wacker Chemical Corp

SIMETHICONE
AIC
Alfa Chem
Momentive
Performance Materials
Parchem - Fine &
Specialty Chemicals
PlusPharma
Ruger Chemical Co
Siovation LLC

SIMETHICONE EMULSION
AIC
Alfa Chem
Momentive
Performance Materials
PlusPharma
Siovation LLC

SIMETHICONE EMULSION, LOW-SODIUM
AIC
Alfa Chem
Momentive
Performance Materials
PlusPharma

SIMETHICONE, GRANULAR
Alfa Chem
Momentive
Performance Materials
PlusPharma
Ruger Chemical Co

SIMVASTATIN
Hetero, Custom
Pharmaceutical
Services

SITOSTEROL
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

SODIUM ACETATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients

Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Richman Chemical
Ruger Chemical Co

SODIUM ACID PYROPHOSPHATE
Alfa Chem
Brenntag North America

SODIUM ALUMINUM HYDRIDE
Albemarle Corp
Scandinavian Formulas

SODIUM AMIDE
Alfa Chem

SODIUM AMINO BENZOATE
Alfa Chem
Scandinavian Formulas

SODIUM AMMONIUM PHOSPHATE
Alfa Chem
Brenntag North America

SODIUM ASCORBATE
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
Helm New York
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem

SODIUM BENZOATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Brenntag North America
Helm New York
Jet Pulverizer Co
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SODIUM BICARBONATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Mutchler
Pharmaceutical
Ingredients
Natrium Products
Ruger Chemical Co
Scandinavian Formulas

SODIUM BIPHOSPHATE
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

SODIUM BISULFATE
Alfa Chem
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

SODIUM BISULFITE
Alfa Chem
Ruger Chemical Co

SODIUM BORATE
Albemarle Corp
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SODIUM BOROHYDRIDE
Alfa Aesar, A Johnson
Matthey Co
CellMark USA, LLC,
Chemicals
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Scandinavian Formulas

SODIUM CAPRYLATE
ABITEC Corp
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Napp Technologies LLC
Parchem - Fine &
Specialty Chemicals
Richman Chemical
Ruger Chemical Co
Scandinavian Formulas

SODIUM CARBONATE
Adept Solutions, World
Headquarters
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
CellMark USA, LLC,
Chemicals
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

SODIUM CARBOXYMETHYL CELLULOSE
AIC
Alfa Chem
Ashland, Ashland
Specialty Ingredients
Asiameica Ingredients
Avantor Performance
Materials
Biddle Sawyer Corp
Brenntag North America
Brenntag Specialties
Gumix Intl
JRS Pharma GmbH &
Co KG
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co

SODIUM CHENODE-OXYCHOLATE
Alfa Chem
Pangaea Sciences

SODIUM CHLORIDE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Morton Salt
Ruger Chemical Co
Scandinavian Formulas

SODIUM CHOLATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Marcor
Development Corp
Scandinavian Formulas

SODIUM CITRATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SODIUM DEHYDROCHOLATE
Alfa Chem
DSM Pharmaceuticals
Products
Pangaea Sciences

SODIUM DEOXYCHOLATE
Alfa Chem
Marcor
Development Corp
Pangaea Sciences

SODIUM DIATRIZOATE
Alfa Chem

SODIUM FLUORIDE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SODIUM FORMATE
Alfa Chem
Brenntag North America
Scandinavian Formulas

SODIUM GLUCONATE
Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

For vendor contact information, see Company Directory section.

SODIUM GLYCINATE
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

SODIUM GLYCINE CARBONATE
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

SODIUM GLYCOLATE
Adept Solutions, World Headquarters
Alfa Chem
Scandinavian Formulas

SODIUM HYDRIDE
Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Scandinavian Formulas

SODIUM HYDROXIDE
Avantor Performance
Materials

SODIUM HYPOCHLORITE
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Scandinavian Formulas

SODIUM HYPOPHOSPHITE
Alfa Chem
Arkema
Brenntag North America
Parchem - Fine & Specialty Chemicals
Richman Chemical
Scandinavian Formulas

SODIUM IODIDE
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
Scandinavian Formulas

SODIUM LAUROYL SARCOSINATE
Alfa Chem
Avantor Performance
Materials
Ruger Chemical Co

SODIUM LAURYL SULFATE
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SODIUM METABISULFITE
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SODIUM METALLIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem

SODIUM METHYLATE
Alfa Chem
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Scandinavian Formulas

SODIUM MONOCHLORO-ACETATE
Alfa Chem
Arkema
Brenntag North America
Scandinavian Formulas

SODIUM NITRATE
Alfa Aesar, A Johnson
Matthey Co
Asiameica Ingredients
Brenntag North America
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

SODIUM NITRITE
Alfa Chem
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SODIUM OXALATE
AIC
Alfa Chem
CellMark USA, LLC,
Chemicals
Scandinavian Formulas

SODIUM PHENYLACETATE
Alfa Chem

SODIUM PHOSPHATE, DIBASIC
AIC
Alfa Chem
Avantor Performance
Materials
Biologos
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

SODIUM PHOSPHATE, MONOBASIC
Avantor Performance
Materials
Biologos
Jost Chemical Co

SODIUM PHOSPHATE, TRIBASIC
AIC
Alfa Chem
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

SODIUM PHOSPHITE
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

SODIUM PROPIONATE
AIC
Alfa Chem
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SODIUM PYROPHOSPHATE
Jost Chemical Co

SODIUM SALICYLATE
Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Napp Technologies LLC
Ruger Chemical Co
Scandinavian Formulas

SODIUM SELENATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Asiameica Ingredients
Scandinavian Formulas

SODIUM SILICATE
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

SODIUM STARCH GLYCOLATE
Adept Solutions, World Headquarters
AIC
Alfa Chem
Barrington Nutritionals
Blanver
DFE pharma
Generichem Corp
JRS Pharma GmbH & Co KG
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co

SODIUM STEARATE
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Brenntag North America
KIC Chemicals
Parchem - Fine & Specialty Chemicals
PlusPharma
Ruger Chemical Co
Scandinavian Formulas

SODIUM STEAROYL LACTYLATE
ABITEC Corp
Brenntag North America

SODIUM STEARYL FUMARATE
Biddle Sawyer Corp
Boscogen
Mutchler
Pharmaceutical
Ingredients

SODIUM SUCCINATE
Alfa Chem
Asiameica Ingredients
Brenntag North America
Scandinavian Formulas

SODIUM SULFATE
AIC
Alfa Aesar, A Johnson
Matthey Co
Alfa Chem
Arkema
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Ruger Chemical Co
Scandinavian Formulas

SODIUM SULFITE
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas

SODIUM THIOCYANATE
Alfa Chem
Avantor Performance
Materials
Richman Chemical

SODIUM THIOSULFATE
Alfa Chem
Avantor Performance
Materials
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SODIUM TRIPOLYPHOSPHATE
Brenntag North America
Ruger Chemical Co

SODIUM VALPROATE
Alfa Chem
Generichem Corp
Parchem - Fine & Specialty Chemicals

SOLVENTS, HPLC
Avantor Performance
Materials
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

SORBITAN ESTERS
Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Lonza
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

SORBITAN FATTY ACID ESTERS
Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Croda, Health Care
Lonza
Ruger Chemical Co

SORBITOL
Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America

EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Roquette America
Ruger Chemical Co
Scandinavian Formulas

SORBITOL, PYROGEN-FREE
Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Roquette America
Ruger Chemical Co
Scandinavian Formulas

SOY HYDROLYSATE
Adept Solutions, World Headquarters
Kerry
Marcor
Development Corp
Scandinavian Formulas

SOY OIL
Arista Industries
Brenntag North America
Croda, Health Care
Jedwards Intl
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SOY PROTEIN CONCENTRATE
Adept Solutions, World Headquarters
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

SPEARMINT OIL
Jedwards Intl

SPERMACETI, SYNTHETIC
Alfa Chem
Croda, Health Care
Ruger Chemical Co
Strahl & Pittsch

SPHINGOLIPIDS
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co

SPIRONOLACTONE
Alfa Chem

SQUALANE
Alfa Chem
Arista Industries
Asiameica Ingredients
Jedwards Intl
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

STARCH
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Brenntag North America
Colorcon

EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Generichem Corp
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Paulaur Corp
Roquette America
Ruger Chemical Co

STARCH, COMPRESSIBLE
Adept Solutions, World Headquarters
Alfa Chem
Asiameica Ingredients
Biddle Sawyer Corp
Brenntag North America
Colorcon
Generichem Corp
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Paulaur Corp
Roquette America
Ruger Chemical Co

STARCH, POTATO, MODIFIED
Adept Solutions, World Headquarters
Alfa Chem
Brenntag North America
Generichem Corp
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co

STAVUDINE
Hetero, Custom
Pharmaceutical
Services

STEARIC ACID
AIC
Alfa Chem
Asiameica Ingredients
Avantor Performance
Materials
Brenntag North America
Generichem Corp
Jedwards Intl
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Scandinavian Formulas

STEARYL ALCOHOL
Alfa Chem
CellMark USA, LLC,
Chemicals
Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

STEARYL ALCOHOL
Alfa Chem
CellMark USA, LLC,
Chemicals
Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

STEARYL STEARATE
Alfa Chem
Scandinavian Formulas

STEROIDS
Adept Solutions, World Headquarters
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

STREPTOMYCIN SULFATE

Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Helm New York

STRONTIUM CHLORIDE

Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Asiameica Ingredients
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

STRONTIUM SALTS

Alfa Aesar, A Johnson Matthey Co
Jost Chemical Co

STYROYLACETATE

CMS Technologies

SUCCINIC ACID

Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
KIC Chemicals
Parchem - Fine & Specialty Chemicals

SUCCINIC ANHYDRIDE

Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Parchem - Fine & Specialty Chemicals

SUCRALFATE

Alfa Chem

SUCROSE

Avantor Performance Materials

SUCROSE ESTERS

Adept Solutions, World Headquarters
Alfa Chem
Croda, Health Care
Eastman Chemical Co
Helm New York
Mutchler Pharmaceutical Ingredients
Ruger Chemical Co
Scandinavian Formulas

SUCROSE

OCTAACETATE
Adept Solutions, World Headquarters
Alfa Chem
Parchem - Fine & Specialty Chemicals

SUDAN BLACK B

EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

SUGAR

Avantor Performance Materials
Mutchler
Pharmaceutical Ingredients

SUGAR SPHERES

Adept Solutions, World Headquarters
Colorcon
Paulaur Corp
PlusPharma
Scandinavian Formulas

SUGAR, COMPRESSIBLE

Adept Solutions, World Headquarters
Mutchler
Pharmaceutical Ingredients
Paulaur Corp
Ruger Chemical Co
Scandinavian Formulas

SUGAR, CONFECTIONERS'

Adept Solutions, World Headquarters
Mutchler
Pharmaceutical Ingredients
Paulaur Corp
Scandinavian Formulas

SULFACETAMIDE

Asiameica Ingredients
Generichem Corp
Napp Technologies LLC

SULFACETAMIDE SODIUM

Generichem Corp
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals

SULFADIAZINE SODIUM SALT

Alfa Chem
Asiameica Ingredients

SULFAMETHAZINE

Alfa Chem
Asiameica Ingredients

SULFAMETHAZINE SODIUM

Alfa Chem
Asiameica Ingredients

SULFAMETHIZOLE

Asiameica Ingredients

SULFAMETHOXA-ZOLE

Alfa Chem
Asiameica Ingredients

SULFAMIC ACID

AIC
Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
KIC Chemicals

SULFANILAMIDE

Asiameica Ingredients
Napp Technologies LLC

SULFONATES

Ruger Chemical Co

SULFONIC ACID DERIVATIVES, PERFLUORINATED

Kingchem LLC

SULFOSUCCINATES

Adept Solutions, World Headquarters
Alfa Chem
Ruger Chemical Co

SULFURIC ACID

Alfa Chem
Arkema
Avantor Performance Materials
Brenntag North America

EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

SULFURYL CHLORIDE

Alfa Chem
Parchem - Fine & Specialty Chemicals

SULINDAC

Parchem - Fine & Specialty Chemicals

SUPEROXIDE DISMUTASE

Marcor
Development Corp
Worthington
Biochemical Corp

SURFACE ACTIVE AGENTS

ABITEC Corp
Adept Solutions, World Headquarters
Albemarle Corp
Alconox
Croda, Health Care
Cytec Industries,
Additive Technologies
Lubrizol Advanced Materials
Momentive
Performance Materials

SURFACE ACTIVE INGREDIENTS, NONIONIC

ABITEC Corp
Adept Solutions, World Headquarters
Albemarle Corp
Alconox
Croda, Health Care
Mutchler
Pharmaceutical Ingredients
Ruger Chemical Co
Siovation LLC

SURFACE ACTIVE INGREDIENTS, NONIONIC

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Adept Solutions, World Headquarters
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Alconox
Croda, Health Care
Mutchler
Pharmaceutical Ingredients
Ruger Chemical Co

SUSPENDING AGENTS

ABITEC Corp
Adept Solutions, World Headquarters
Alfa Chem
Beneo-Palatinit GmbH
Brenntag Specialties
Colorcon
Eastman Chemical Co
FMC Corp, FMC
BioPolymer
Grain Processing Corp
Lubrizol Advanced Materials
Momentive
Performance Materials
Ruger Chemical Co

SWEETNESS POTENTIATORS

Adept Solutions, World Headquarters
Alfa Chem
Lubrizol Advanced Materials

SYRINGIC ACID, TECHNICAL

INDOFINE Chemical Co

T-BUTYL ALCOHOL

Alfa Aesar, A Johnson Matthey Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

T-BUTYLAMINE

Asiameica Ingredients

TABLETING AGENTS

ABITEC Corp
Adept Solutions, World Headquarters
AIC
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
Beneo-Palatinit GmbH
Brenntag Specialties
Colorcon
FMC Corp, FMC
BioPolymer
Generichem Corp
Grain Processing Corp
Kerry
Mutchler
Pharmaceutical Ingredients
Paulaur Corp
Roquette America
Ruger Chemical Co
Specialty Minerals

T-BUTYL ALCOHOL

Alfa Aesar, A Johnson Matthey Co
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

T-BUTYLAMINE

Asiameica Ingredients

TABLETING AGENTS

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Beneo-Palatinit GmbH
Brenntag Specialties
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FMC Corp, FMC
BioPolymer
Generichem Corp
Grain Processing Corp
Kerry
Mutchler
Pharmaceutical Ingredients
Paulaur Corp
Roquette America
Ruger Chemical Co
Specialty Minerals

TABLETING BASES, PREGANULATED

Adept Solutions, World Headquarters
Anmar Intl Ltd
Beneo-Palatinit GmbH
Eastman Chemical Co
Paulaur Corp
Roquette America

TAMOXIFEN

Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co

TAMOXIFEN CITRATE

Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co

TANNIC ACID

Alfa Chem
CellMark USA, LLC, Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TANTALUM SALTS

Alfa Aesar, A Johnson Matthey Co
Parchem - Fine & Specialty Chemicals

TAURINE

Adept Solutions, World Headquarters
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Charles Bowman & Co
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TELLURIUM SALTS

Barrington Nutritionals

TERAZOSIN

Alfa Chem
Boscogen

TERBUTALINE SULFATE

Parchem - Fine & Specialty Chemicals

TERCONAZOLE

Albemarle Corp

TERFENADINE

Parchem - Fine & Specialty Chemicals
XenoTech

TERPINEOL

Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co

TESTOSTERONE

Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TESTOSTERONE CYPIONATE

Adept Solutions, World Headquarters
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TESTOSTERONE ENANTHATE

Adept Solutions, World Headquarters

TETRACAINE

Albemarle Corp
Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TETRACAINE HCL

Albemarle Corp
Alfa Chem
Asiameica Ingredients
BASF Corp, G-ENP
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

THIMEROSAL

Alfa Chem
Parchem - Fine & Specialty Chemicals

THIOACETAMIDE

Arkema

THIOCYCLINE

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

THIOCYCLINE HCL

Alfa Chem
Asiameica Ingredients
Helm New York
Parchem - Fine & Specialty Chemicals

TETRAHYDROFUR-FURYL ALCOHOL

Parchem - Fine & Specialty Chemicals

TETRAHYDROZOLINE HCL

Albemarle Corp
Napp Technologies LLC

TETRASODIUM ETHYLENEDIAMINE-TETRAACETATE

AIC
Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

TETRASODIUM PYROPHOSPHATE

Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co

THEOBROMINE

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

THEOPHYLLINE

Alfa Chem
Aptalis Pharmaceutical Technologies
Asiameica Ingredients
Charles Bowman & Co
DSM Nutritional Products LLC

THIAMINE MONONITRATE

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional Products LLC

THICKENING AGENTS

ABITEC Corp
Adept Solutions, World Headquarters
AIC
Brenntag North America
Brenntag Specialties
FMC Corp, FMC
BioPolymer
Grain Processing Corp
Lubrizol Advanced Materials
Ruger Chemical Co

THIMEROSAL

Alfa Chem
Parchem - Fine & Specialty Chemicals

THIOACETAMIDE

Arkema

THIOCYCLINE

Alfa Chem
Asiameica Ingredients
Parchem - Fine & Specialty Chemicals

THIOCYCLINE HCL

Alfa Chem
Asiameica Ingredients
Helm New York
Parchem - Fine & Specialty Chemicals

THIOMALIC ACID

Alfa Chem

THIOPHENE

Arkema

For vendor contact information, see Company Directory section.

- THIURIDAZINE HCL**
Parchem - Fine & Specialty Chemicals
- THIOSEMICARBAZIDE**
Richman Chemical
- THIOUREA**
Alfa Chem
Avantor Performance Materials
Parchem - Fine & Specialty Chemicals
Richman Chemical
- THREONINE**
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Evonik Corp, Health Care
Helm New York
- THROMBIN**
Alfa Chem
Kraeber & Co GmbH
- THYMOL**
Alfa Chem
Kraeber & Co GmbH
Ruger Chemical Co
- THYROID**
Alfa Chem
American Labs
Kraeber & Co GmbH
Ruger Chemical Co
- TIMOLOL MALEATE**
Asiameica Ingredients
Boscogen
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
PlusPharma
- TIN**
Alfa Aesar, A Johnson Matthey Co
Soltec Ventures
- TISSUE CULTURE MEDIA**
Biologos
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Lonza
XenoTech
- TITANIUM AND SALTS**
Alfa Aesar, A Johnson Matthey Co
- TITANIUM DIOXIDE**
AIC
Alfa Aesar, A Johnson Matthey Co
Asiameica Ingredients
Brenntag North America
Brenntag Specialties
Cristal
Jet Pulverizer Co
Mutchler Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Sensient Pharmaceutical
- TOBRAMYCIN BASE**
Alfa Chem
Parchem - Fine & Specialty Chemicals
- TOCOPHEROLS**
Jedwards Intl
- TOCOTRIENOLS**
Jedwards Intl
- TOLBUTAMIDE**
XenoTech
- TOLNAFTATE**
AIC
Asiameica Ingredients
Napp Technologies LLC
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
- TOLU BALSAM OIL**
Pangaea Sciences
Scandinavian Formulas
- TRAGACANTH**
Gumix Intl
- TRAMADOL HYDROCHLORIDE**
Alfa Chem
PlusPharma
- TRANSFERRIN**
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Pangaea Sciences
- TREHALOSE**
Adept Solutions, World Headquarters
Asahi Kasei Chemical Corp/Asahi Kasei America, Functional Additives Div
Brenntag North America
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Marcor Development Corp
Parchem - Fine & Specialty Chemicals
- TRI-N-BUTYLAMINE**
Avantor Performance Materials
- TRIACETIN**
ABITEC Corp
Brenntag North America
Eastman Chemical Co
Mutchler Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
- TRIAMCINOLONE ACETONIDE**
Parchem - Fine & Specialty Chemicals
- TRIAMTERENE**
Parchem - Fine & Specialty Chemicals
- TRIBUTYL CITRATE**
Mutchler Pharmaceutical Ingredients
- TRICALCIUM PHOSPHATE**
AIC
Brenntag North America
Parchem - Fine & Specialty Chemicals
- TRICHLOROACETIC ACID**
Alfa Aesar, A Johnson Matthey Co
- TRIETHANOLAMINE LAURYL SULFATE**
Ruger Chemical Co
- TRIETHYL CITRATE**
Mutchler Pharmaceutical Ingredients
Parchem - Fine & Specialty Chemicals
- TRIETHYLAMINE**
Arkema
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
- TRIETHYLENE GLYCOL**
Adept Solutions, World Headquarters
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Parchem - Fine & Specialty Chemicals
Scandinavian Formulas
- TRIETHYLSILANE**
Alfa Aesar, A Johnson Matthey Co
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
- TRIFLUOROMETHANESULFONIC ACID (TRIFLIC ACID)**
Alfa Aesar, A Johnson Matthey Co
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
- TRIFLUOROMETHANESULFONIC ANHYDRIDE (TRIFLIC ANHYDRIDE)**
Alfa Aesar, A Johnson Matthey Co
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
- TRIMEBUTINE**
Isochem
- TRIMETHYLENE CARBONATE**
Adept Solutions, World Headquarters
Richman Chemical
- TRIMETHYLSILYL-TRIFLUOROMETHANE SULFONATE**
Wacker Chemical Corp
- TRIOXSALEN**
Parchem - Fine & Specialty Chemicals
- TRIPLENNAMINE HCL**
CellMark USA, LLC, Chemicals
Napp Technologies LLC
- TRIPHENYL PHOSPHINE**
Arkema
- TRIPROLIDINE HCL**
AIC
Asiameica Ingredients
Lonza
Parchem - Fine & Specialty Chemicals
- TRISODIUM PHOSPHATE**
Alfa Chem
Brenntag North America
Ruger Chemical Co
- TROLAMINE**
Ruger Chemical Co
- TROMETHAMINE**
Avantor Performance Materials
BioSpectra
- TROPINE**
Alfa Chem
- TRYPSIN**
Alfa Chem
American Labs
Biologos
Kraeber & Co GmbH
Marcor Development Corp
Pangaea Sciences
Scandinavian Formulas
Scripps Labs
Worthington Biochemical Corp
- TURMERIC**
Alfa Chem
INDOFINE Chemical Co
Scandinavian Formulas
Sensient Pharmaceutical
- TYLOSIN**
Evonik Corp, Health Care
Helm New York
Scandinavian Formulas
- TYROSINE**
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Charles Bowman & Co
Ruger Chemical Co
Scandinavian Formulas
- UNDECYLENIC ACID**
Alfa Chem
Arkema
KIC Chemicals
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
- URANINE**
Alfa Chem
Kraeber & Co GmbH
- UREA**
AIC
Alfa Chem
Avantor Performance Materials
BioSpectra
Brenntag North America
Ruger Chemical Co
Scandinavian Formulas
- URSODEOXYCHOLIC ACID**
Alfa Chem
- UV ABSORBERS**
AIC
BASF Corp, G-ENP
- Brenntag North America
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
- VALERIC ACID**
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
- VALEROLACTONE**
Alfa Chem
- VALINE**
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Evonik Corp, Health Care
Scandinavian Formulas
- VALPROIC ACID**
Alfa Chem
Generichem Corp
- VANADIUM**
Alfa Aesar, A Johnson Matthey Co
Alfa Chem
CellMark USA, LLC, Chemicals
Ruger Chemical Co
Scandinavian Formulas
- VANCOMYCIN**
Alfa Chem
Parchem - Fine & Specialty Chemicals
- VANILLA**
Jedwards Intl
- VANILLA OIL**
Adept Solutions, World Headquarters
Alfa Chem
Scandinavian Formulas
- VANILLIN**
Adept Solutions, World Headquarters
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem
- VANILLYLACETONE**
Alfa Chem
Scandinavian Formulas
- VASOPRESSIN**
Helm New York
- VERALIPRIDE**
Alfa Chem
- VINBLASTINE**
Alfa Chem
Parchem - Fine & Specialty Chemicals
- VINCAMINE**
Alfa Chem
Omnicem, Pharmaceutical Fine Chemicals
- VINCRIStINE**
Alfa Chem
- VINCRIStINE SULFATE**
Alfa Chem
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Omnicem, Pharmaceutical Fine Chemicals
Parchem - Fine & Specialty Chemicals
- VITAMIN A**
Arista Industries
- VITAMIN BV(1)**
Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
Brenntag North America
Charles Bowman & Co
DSM Nutritional Products LLC
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem
- VITAMIN BV(12)**
Adept Solutions, World Headquarters
AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
CellMark USA, LLC, Chemicals
Charles Bowman & Co
DSM Nutritional Products LLC
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
Suzhou-Chem
- VITAMIN BV(2)**
Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional Products LLC
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas
- VITAMIN BV(6)**
Adept Solutions, World Headquarters
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Charles Bowman & Co
DSM Nutritional Products LLC
Helm New York
Parchem - Fine & Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

VITAMIN D

Arista Industries

VITAMIN DV(2)

AIC
Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
Brenntag North America
Charles Bowman & Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
Scandinavian Formulas

VITAMIN DV(3)

AIC
Alfa Chem
Anmar Intl Ltd
Arista Industries
Asiameica Ingredients
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Helm New York
LGM Pharma
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

VITAMIN E

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Anmar Intl Ltd
Arista Industries
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
Charles Bowman & Co
DSM Nutritional
Products LLC
Eastman Chemical Co
Helm New York
KIC Chemicals
Kingchem LLC
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

VITAMIN K

Alfa Chem
Anmar Intl Ltd
Asiameica Ingredients
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Helm New York
Ruger Chemical Co
Scandinavian Formulas

WARFARIN SODIUM USP

Alfa Chem
Parchem - Fine &
Specialty Chemicals

WATER SOLUBLE POLYMERS

Adept Solutions, World
Headquarters
BASF Corp, G-ENP
Brenntag Specialties
DURECT Corp, LACTEL
Absorbable Polymers
Eastman Chemical Co
Roquette America
Ruger Chemical Co

WAXES, EMULSIFYING

Alfa Chem
Brenntag North America
Brenntag Specialties
Croda, Health Care
Eastman Chemical Co
Jedwards Intl
Lonza
Mutchler Pharmaceutical
Ingredients
Ruger Chemical Co

WAXES, MICROCRYSTALLINE

Alfa Chem
Brenntag Specialties
Mutchler Pharmaceutical
Ingredients
Ruger Chemical Co
Strahl & Pitsch

WAXES, SYNTHETIC Croda, Health Care

WAXES, WHITE

Alfa Chem
Brenntag North America
Brenntag Specialties
Jedwards Intl
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Strahl & Pitsch

WAXES, YELLOW

Alfa Chem
Brenntag North America
Brenntag Specialties
Jedwards Intl
Mutchler Pharmaceutical
Ingredients
Ruger Chemical Co
Strahl & Pitsch

WETTING AGENTS

ABITEC Corp
Adept Solutions, World
Headquarters
Brenntag Specialties
Croda, Health Care
Eastman Chemical Co
Momentive
Performance Materials
Ruger Chemical Co

WHEAT GERM GLYCERIDES

Adept Solutions, World
Headquarters
Alfa Chem
Ruger Chemical Co
Scandinavian Formulas

WHEAT GERM OIL

Arista Industries
Jedwards Intl

WHEAT GLUTEN

Alfa Chem
Brenntag North America
Roquette America
Scandinavian Formulas

WHEY PROTEIN CONCENTRATES

Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Parchem - Fine &
Specialty Chemicals

WOOL FAT

Alfa Chem

WOOL WAX ALCOHOL

Alfa Chem
Croda, Health Care

XANTHAN GUM

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
Gumix Intl
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Parchem - Fine &
Specialty Chemicals
Ruger Chemical Co
Scandinavian Formulas

XYLAZINE HCL

Alfa Chem
Boscogon

XYLENE

Alfa Chem
Brenntag North America
Ruger Chemical Co

XYLENOL

Parchem - Fine &
Specialty Chemicals
Spectrum Chemical
Mfg Corp

XYLITOL

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Asiameica Ingredients
Brenntag North America
CellMark USA, LLC,
Chemicals
KIC Chemicals
Parchem - Fine &
Specialty Chemicals
Roquette America
Ruger Chemical Co
Scandinavian Formulas

XYLITOL, DIRECT COMPRESSION

Alfa Chem
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co

XYLITOL, PYROGEN-FREE

Adept Solutions, World
Headquarters
AIC
Alfa Chem
Mutchler
Pharmaceutical
Ingredients
Roquette America
Ruger Chemical Co

XYLOSE

Adept Solutions, World
Headquarters
Alfa Chem
Asiameica Ingredients
Ruger Chemical Co
Scandinavian Formulas
Spectrum Chemical
Mfg Corp

YEAST AND YEAST PRODUCTS

Adept Solutions, World
Headquarters
Alfa Chem
Brenntag North America
Kerry
Marcor
Development Corp

Scandinavian Formulas
Spectrum Chemical
Mfg Corp

YEAST HYDROLYSATE

Adept Solutions, World
Headquarters
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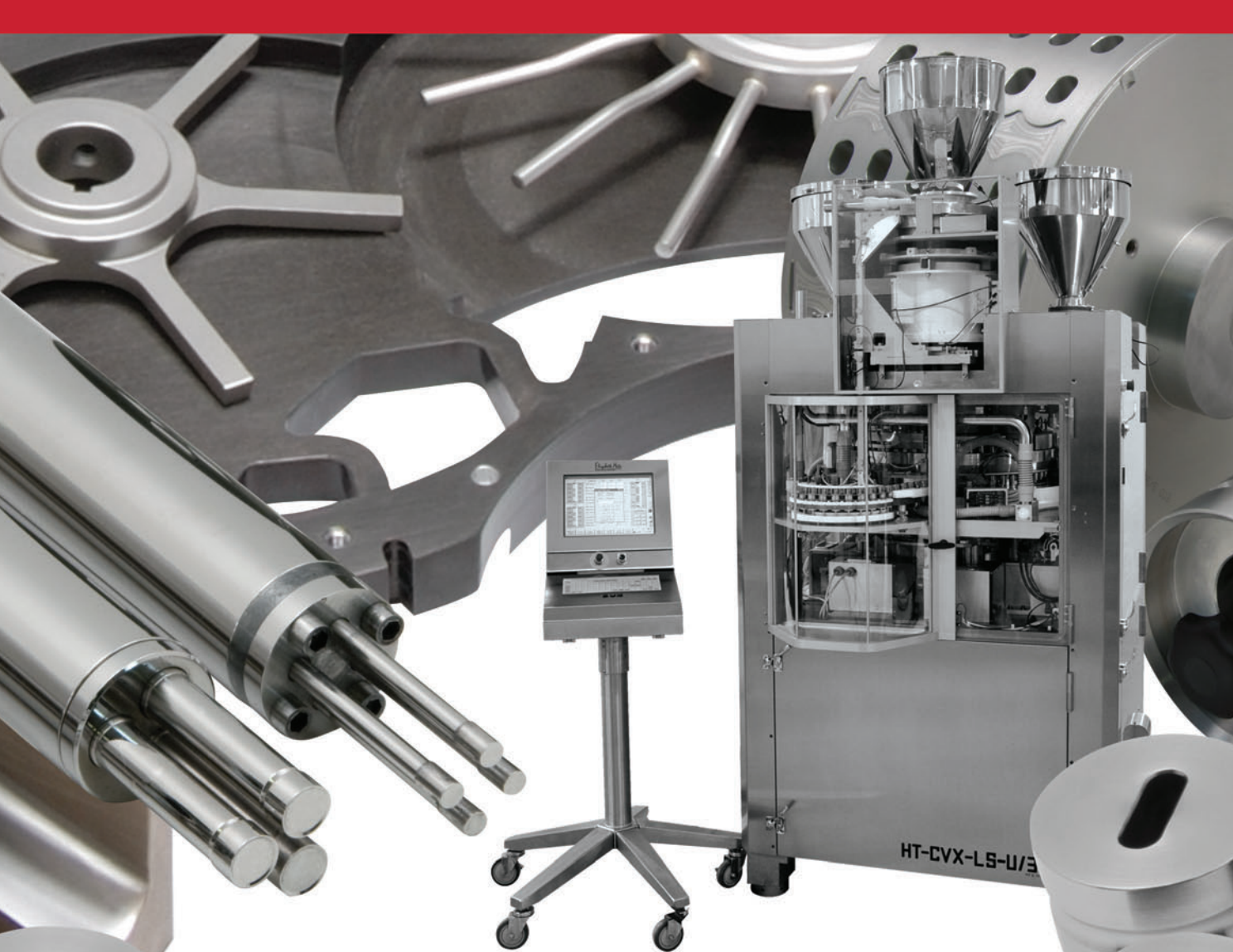
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Myers Engineering
Nicos Group
PRO Scientific
Techceuticals
The Young Industries
Vac-U-Max
Vibra Screw
Westfield Sheet
Metal Works

**BLENDERS,
CONTINUOUS**

A&M Process
Equipment Ltd
Acrison
Admix
AIM Blending
Technologies
C & C Corp
Charles Ross & Son Co
Custom Metalcraft
DCI
DJS Enterprises
EquipNet
Federal Equipment Co
**Fluid Air, Spraying
Systems Co**
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Glatt Air Techniques
GlobePharma
GolIndustry DoveBid
Jenike & Johanson
JLS Intl
Marion Mixers
MECO Shaft Seals, Div
Woodex Bearing Co
Nicos Group
Oden Corp
Ruland Engineering &
Consulting GmbH
Union Standard
Equipment Co

**BLENDERS,
PORTABLE HOPPER**

A&M Process
Equipment Ltd
Admix

AIM Blending
Technologies
Apache Stainless
Equipment Corp
AZO
C & C Corp
Charles Ross & Son Co
Custom Metalcraft
Custom Powder
Systems
DCI
Diamondback
Technology
DJS Enterprises
EquipNet
Federal Equipment Co
Fristam Pumps USA
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Glen Mills
GolIndustry DoveBid
Jenike & Johanson
Keith Machinery Corp
Kemutec
LB Bohle LLC
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Marion Mixers
METO Corp
MO Industries
Rotonics Mfg, RMI-
Chicago
Union Standard
Equipment Co
Vac-U-Max
Westfield Sheet
Metal Works

BUFFING WHEELS

C & C Corp
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Natoli Engineering Co

**CABINET
FREEZERS, COV,
NV**

Blü Lion Biotech
Darwin Chambers Co
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Terra Universal

**CALIBRATION
EQUIPMENT**

Artel
Ashcroft
ATS RheoSystems,
Cannon Instrument Co
Badger Meter
Beamex
Cole-Parmer
Distek
E Instruments Intl
Ellab
EquipNet
GolIndustry DoveBid
Hanson Research Corp
Masy Systems
Mesa Labs
Mil-Ram Technology
MKS Instruments
Natoli Engineering Co
Omega Engineering
Palmer Wahl
Temperature Products
Pharmatron
Process Tek
Q-Lab Corp,
Headquarters &
Instrument Div
Rice Lake Weighing
Systems
Rotronic Instrument Corp
Sierra Instruments
Testing Machines

Texture
Technologies Corp
Thermacal
Yokogawa Corp of
America

**CAPSULE CLEANING
AND POLISHING
MACHINES**

ACG North America LLC
C & C Corp
DJS Enterprises
Driam USA
Equipment
Technology Co
EquipNet
Federal Equipment Co
GlobePharma
GolIndustry DoveBid
Keith Machinery Corp
Key Intl
Kraemer US LLC
MG America
Natoli Engineering Co
Pharma Technology
Schaefer Technologies
Symetix
Techceuticals
Torpac
Union Standard
Equipment Co

**CAPSULE
MANUFACTURING
EQUIPMENT**

Advance Engineering &
Mfg Co
C & C Corp
Charles Ross & Son Co
DJS Enterprises
EquipNet
Federal Equipment Co
GlobePharma
GolIndustry DoveBid
LabX (Auctions)
MG America
Molins Technologies
Qualicaps
Schaefer Technologies
Torpac
Union Standard
Equipment Co
Urschel Labs

**CAPSULE
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EQUIPMENT,
REPLACEMENT
PARTS**

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Mfg Co
C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
GCA Products
GlobePharma
GolIndustry DoveBid
MG America
Natoli Engineering Co
Qualicaps
RW Hartnett Co
Schaefer Technologies
Torpac
Urschel Labs

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Ackley Machine Corp
C & C Corp
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CI Precision
Cleveland Vibrator/HK
Technologies
DJS Enterprises
Driam USA
Equipment
Technology Co
Federal Equipment Co
GolIndustry DoveBid
Keith Machinery Corp
MG America
Pharma Technology
Proditec
Qualicaps

RW Hartnett Co
Schaefer Technologies
Symetix
Union Standard
Equipment Co

**CAPSULE-FILLING
EQUIPMENT**

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Technology, Pharma
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Capsugel
CMS Technologies
DJS Enterprises
Enguard Systems,
Div Containment
Technologies Group
Equipment
Technology Co
EquipNet
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Key Intl
LabX (Auctions)
.....
MG America
973-808-8185
fax 973-808-8421
sales@mgamerica.com
www.mgamerica.com
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.....
Molins Technologies
NJM Packaging
Qualicaps
Schaefer Technologies
Techceuticals
Torpac
Union Standard
Equipment Co

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AirClean Systems
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Equipment Corp
Blue Lion Biotech
**CARON Products &
Services**
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Eppendorf
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GolIndustry DoveBid
Inotech Bioscience LLC
Lampire Biological Labs
Microfluidics
NuAire
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
PolyScience
Saint-Gobain
Performance Plastics
StemCell Technologies
Wheaton Industries,
Wheaton Science
Packaging
Xcellerex

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EQUIPMENT**

AirClean Systems
Apache Stainless
Equipment Corp
Blue Lion Biotech
**CARON Products &
Services**
DCI-Biolafitte
Eppendorf
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GolIndustry DoveBid
Inotech Bioscience LLC
Lampire Biological Labs
Microfluidics
NuAire
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
PolyScience
Saint-Gobain
Performance Plastics
StemCell Technologies
Wheaton Industries,
Wheaton Science
Packaging
Xcellerex

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Blue Lion Biotech
DCI-Biolafitte
Eppendorf
EquipNet
GolIndustry DoveBid
Nova Biomedical
Optek-Danulat
Pall Corp, Life
Sciences Group
StemCell Technologies
Wheaton Industries,
Wheaton Science
Packaging

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Alfa Laval

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Benz Technology Intl
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Eppendorf
EquipNet
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Supply
Globe Scientific
GolIndustry DoveBid
Heinkel
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Plants IPP
Jongia, Div MPE Group
USA LLC
Keith Machinery Corp
Kine Spin Div/Barrett,
Kinefac Corp
KINESPIN, A Division Of
Kinefac Corporation
LabX (Auctions)
Mycoscience
PRO Scientific
Robatel
SWECO
Woodley
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Cole-Parmer
Custom Metalcraft
DJS Enterprises
EquipNet
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Halco Products Co, Div
Hale Engineering Co
International Process
Plants IPP
Julabo USA
Keith Machinery Corp
Millrock Technology
Mokon
PolyScience
Sigma Equipment Corp
Torrey Pines Scientific
TUC LLC
Westfield Sheet
Metal Works

CHILLING TANKS

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Equipment Corp
Budzar Industries
Custom Metalcraft
Federal Equipment Co
GMP Systems
GolIndustry DoveBid
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Mokon
Paul Mueller Co
TUC LLC
Walker Stainless
Equipment Co

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BUCHI Corp
Cole-Parmer
DJS Enterprises
EquipNet

Federal Equipment Co
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Cleanroom Supply, dba
General Lab Supply
GolIndustry DoveBid
Metrohm USA
Novasep
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Polymicro Technologies,
Sub Molex
Restek Corp
SGE Analytical Science
Pty Ltd
Valco Instruments Co
(VICI)
Waters Corp, Waters Div
WS Tyler

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SCALE**
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DJS Enterprises
EquipNet
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Union Standard
Equipment Co
Yokogawa Corp of
America

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EquipNet
Federal Equipment Co
General Lab & Cleanroom
Supply, dba General
Lab Supply

GolIndustry DoveBid
Novasep
Union Standard
Equipment Co
Waters Corp, Waters Div

**CHROMATOGRAPHY,
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SCALE**
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GolIndustry DoveBid
Novasep
Waters Corp, Waters Div

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Novasep

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Qosina
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SaniSure
Seal Master Corp
SPX Flow Technology
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Equipment Co
Value Plastics
WL Gore & Assocs,
Gore PharmBIO
Products
Xcellerex

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Supply Co
Beswick Engineering Co
Cole-Parmer
Evaporator Dryer
Technologies
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Mycoscience
Newson Gale
Rubber Fab
Technologies Group
SaniSure
Seal Master Corp
**Spectrum Chemical
Mfg Corp**
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Equipment Co
Value Plastics
WL Gore & Assocs,
Gore PharmBIO
Products
Xcellerex

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ARS/Beverly Pacific
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BioPro Intl
ETC, Sterilization
Systems
Federal Equipment Co
GolIndustry DoveBid
Paul Mueller Co
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Spirax Sarco
Sussman Electric
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Telstar North America

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SYSTEMS**
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Corp, Corporate
American Alloy
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American Plastics
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Armfield Ltd,
Industrial Div
ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
Bausch + Stroebel
Machine Co
Bausch Advanced
Technologies
BEE Intl
BETE Fog Nozzle
Bioengineering
Burkert Fluid Control
Systems
Custom Powder
Systems
DCI
DCI-Biolafitte
De Dietrich Process
Systems
EquipNet
Evaporator Dryer
Technologies
Federal Equipment Co
**Fette Compacting
America**
FPS Food & Pharma
Systems Srl
Freund-Vector Corp
Gamajet Cleaning
Systems
GEA Process
Engineering, GEA
Pharma Systems

GEA Tuchenhagen
North America
Girton Mfg Co,
Pharmaceutical Div
Glatt Air Techniques
GMP Systems
GolIndustry DoveBid
groninger USA LLC
HECHT Technologie
GmbH, Bulk Material
Handling
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Marion Mixers
Natoli Engineering Co
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Novasep
Optek-Danulat
Optima Pharma, Optima
Machinaey Corp
Paul Mueller Co
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Pink GmbH
Thermosysteme
Process Tek
Russell Finex
Sani-Matic
Specialty Equipment
Spirax Sarco
Spiroflow Systems
SPX Flow Technology
Strahman Valves
SWECO
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Burrell, An SPX Brand,
SPX Flow Technology

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Machine Co
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Headquarters
DJS Enterprises
ENMET Corp
EquipNet
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Ingersoll-Rand,
Compressed Air
Solutions
Kaps-All Packaging
Systems
McBrady Engineering
Meech Static
Eliminators USA
New England Machinery
NexGen Enviro Systems
Nicos Group
Optima Pharma, Optima
Machinaey Corp
Sani-Matic
Terra Universal
Tiger-Vac
Vac-U-Max

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EQUIPMENT, RINSING**
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Alfa Laval
Bausch + Stroebel
Machine Co
BETE Fog Nozzle
Capmatic Ltd,
Headquarters
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Systems



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 GEA Tuchenhagen North America
 Girton Mfg Co, Pharmaceutical Div
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 Kaps-All Packaging Systems
 McBrady Engineering
 Meech Static Eliminators USA
Natoli Engineering Co
 NexGen Enviro Systems
 Nicos Group
 Optima Pharma, Optima Machinaey Corp
 PennTech Machinery Corp, The PennTech Group
 Sani-Matic
 Strahman Valves
 Terra Universal
Veltek Associates Inc

CLEANING EQUIPMENT, STEAM

A&B Process Systems Corp
 ARS Enterprises, ARS/Beverly Pacific Sterilizers
EquipNet
 GEA Process Engineering, GEA Pharma Systems
 GoIndustry DoveBid
 McBrady Engineering
 Optima Pharma, Optima Machinaey Corp
 Reimers Electra Steam
 Sani-Matic
 Spirax Sarco

CLEANING EQUIPMENT, VAPOR

BIOQUELL, Life Sciences
 GoIndustry DoveBid
 McBrady Engineering
 Sani-Matic

CLEANING EQUIPMENT, WASHING

Alfa Laval
 AmeriVap Systems
 ARCHON Industries
 Bausch + Stroebel Machine Co
 Bausch Advanced Technologies
 BETE Fog Nozzle
 Custom Metalcraft
 Custom Powder Systems
 Distek
 Ecolab
EquipNet
 Gamajet Cleaning Systems
 GEA Process Engineering, GEA Pharma Systems
 Girton Mfg Co, Pharmaceutical Div
 GoIndustry DoveBid groninger USA LLC
 HECHT Technologie GmbH, Bulk Material Handling
 I Holland Ltd
 Kine Spin Div/Barrett, Kinefac Corp
 KINESPIN, A Division Of Kinefac Corporation
 Labconco Corp
 McBrady Engineering
 Miele, Professional Products Div
Natoli Engineering Co
 NexGen Enviro Systems
 Nicos Group
 Optima Pharma, Optima Machinaey Corp

PennTech Machinery Corp, The PennTech Group
 Perflex Corp
 R Kraft (RK)
 Sani-Matic
 Sonics & Materials, Vibra-Cell
 Strahman Valves
 Terra Universal
 WRH Industries Ltd

COATING EQUIPMENT, COATING PANS

AC Compacting LLC
 ACG North America LLC
 C & C Corp
 Confab Labs
 DJS Enterprises
 Driam USA
 Equipment Technology Co
EquipNet
Federal Equipment Co
Fluid Air, Spraying Systems Co

630-665-5001
 fax 630-665-5981
 fluidairinfo@spray.com
 www.fluidairinc.com

See ad on page 61

Freund-Vector Corp

319-377-8263
 fax 319-377-5574
 sales@freund-vector.com
 www.freund-vector.com

See ad on page 49

Glatt Air Techniques

GlobePharma
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 LB Bohle LLC
 Nicos Group
 Techceuticals
 Union Standard
 Equipment Co
 Werner Mathis USA, North America
 WRH Industries Ltd

COATING EQUIPMENT, DRYING OVENS, HUMIDITY CONTROLLED

BETE Fog Nozzle
 BUCHI Corp
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 Drying Technology
EquipNet
 Exothermics
Federal Equipment Co
 GoIndustry DoveBid
 Keith Machinery Corp
 Nicos Group
 Terra Universal
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 Union Standard
 Equipment Co
Vac-U-Max
 Werner Mathis USA, North America

COATING EQUIPMENT, FILM SPRAYERS

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 DJS Enterprises
 Driam USA
EquipNet
Federal Equipment Co
Freund-Vector Corp
 GoIndustry DoveBid
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 Procept nv

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 Bosch Packaging Technology, Pharma
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EquipNet
Federal Equipment Co
Fluid Air, Spraying Systems Co

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 fax 630-665-5981
 fluidairinfo@spray.com
 www.fluidairinc.com

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Frain Industries

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GlobePharma
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 LB Bohle LLC
 Nicos Group
 Procept nv
 Union Standard
 Equipment Co

COATING EQUIPMENT, HOT AIR SYSTEMS

AC Compacting LLC
 DJS Enterprises
EquipNet
 Exothermics
Federal Equipment Co
 Glatt Air Techniques
 GoIndustry DoveBid
 Nicos Group
 Werner Mathis USA, North America

COATING EQUIPMENT, STEAM-JACKETED COOKING KETTLES

Apache Stainless
 Equipment Corp
 C & C Corp
 DJS Enterprises
EquipNet
Federal Equipment Co
 GMP Systems
 GoIndustry DoveBid
 Keith Machinery Corp
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Nicos Group
 Union Standard
 Equipment Co

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EquipNet
Federal Equipment Co
 Garvey Corp
 GoIndustry DoveBid
 Union Standard
 Equipment Co

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 Bematek Systems
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 Equipment Technology Co
EquipNet
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 Plants IPP
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 LabX (Auctions)
 Nicos Group
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 Sigma Equipment Corp
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COLOR MATCHING EQUIPMENT

EquipNet
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 Systems Srl
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 Sciences
 Custom Powder
 Systems
EquipNet
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 Engineering, GEA
 Pharma Systems
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 Handling
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 McBrady Engineering
 Micro Measurement Labs
 MO Industries
 New England Machinery
 NexGen Enviro Systems
 Nicos Group
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 Machinaey Corp
 Sani-Matic
 WRH Industries Ltd

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 Control Co
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 Systems
EquipNet
 EXAIR Corp
 GoIndustry DoveBid
 HECHT Technologie
 GmbH, Bulk Material
 Handling
 McBrady Engineering
 MO Industries

Nicos Group
 Optima Pharma, Optima
 Machinaey Corp
 Sani-Matic

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AGR Intl
 Auto-Mate
 Technologies LLC
 Bausch + Stroebel
 Machine Co
 BellatRx
 Central Research Labs
 Custom Powder
 Systems
 EHS Solutions LLC
EquipNet
 Excalibur Miretti
 Group LLC
 Garvey Corp
 GoIndustry DoveBid
 groninger USA LLC
 HECHT Technologie
 GmbH, Bulk Material
 Handling
 Integrated Containment
 Systems
 Kaps-All Packaging
 Systems
 Material Transfer &
 Storage
 METO Corp
 MO Industries
 National Bulk
 Equipment
 New England Machinery
 Nicos Group
 Optima Pharma, Optima
 Machinaey Corp
 Process Solutions
 Ruland Engineering &
 Consulting GmbH
 Terra Universal
 Whallon Machinery

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Auto-Mate
 Technologies LLC
 Control Micro Systems
EquipNet
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 Label Mill
 Matthews Intl Corp,
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 Controls
Charles Ross & Son Co
 Control 7
 CQS Innovation
EquipNet
 ETC, Sterilization
 Systems
 GEA Process
 Engineering, GEA
 Pharma Systems
 GoIndustry DoveBid
 HECHT Technologie
 GmbH, Bulk Material
 Handling
 Jenike & Johanson
 Mokon
 Rockwell Automation
 Siemens Industry,
 Automation & Drive
 Technologies
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 Sierra Instruments
 Specialty Equipment
 Walchem Iwaki America
 Yokogawa Corp of
 America

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 Custom Metalcraft
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 DJS Enterprises
 Equipment Technology Co
EquipNet
Federal Equipment Co
 FP Developments
 Garvey Corp

CONTROL SYSTEMS, MICROPROCESSOR-BASED

Acrison
 Advanced Motion
 Controls
 Automated Control
 Concepts

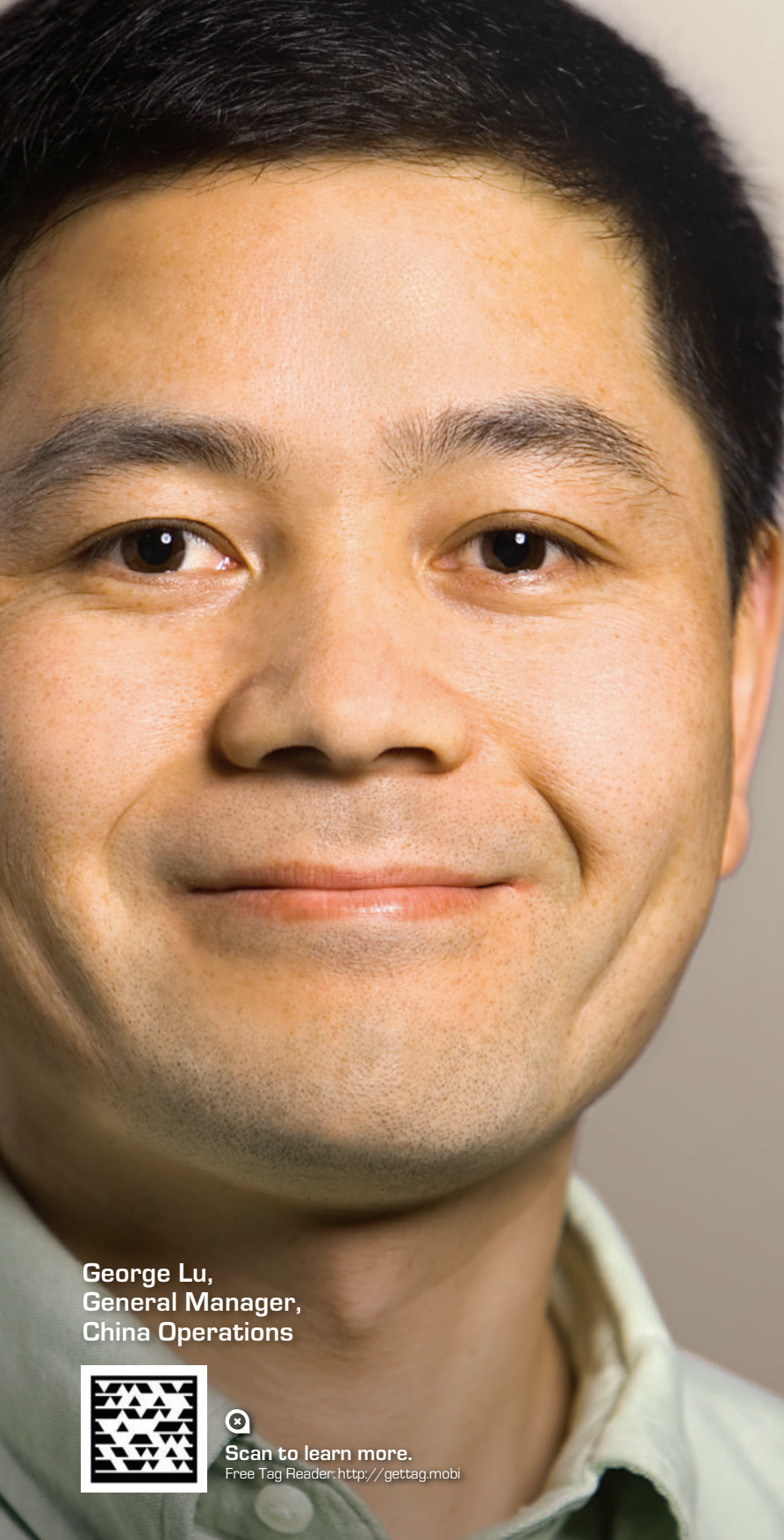
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 GEA Pharma Systems
 GMP Systems
 GoIndustry DoveBid
 LT Industries
 Mil-Ram Technology
 Mokon
 Neutronics, Gas
 Analysis Solutions
 Newport Electronics
 Omega Engineering
 Rockwell Automation
 Sani-Matic
 Siemens Industry,
 Automation & Drive
 Technologies
 Siemens Infrastructure +
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 Technologies Div
 Specialty Equipment
 Spiroflow Systems
 Tri-Tronics Co
 TUC LLC
Vac-U-Max
 Yokogawa Corp of
 America

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EquipNet
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 GF Piping Systems
 GMP Systems
 GoIndustry DoveBid
 Great Plains Industries
 Hoffer Flow Controls
 Krohne
 MKS Instruments
 Mokon
 Newport Electronics
 Optek-Danulat
 Process Technology
 Rockwell Automation
 Siemens Industry,
 Automation & Drive
 Technologies
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 Sierra Instruments
 Specialty Equipment
 Walchem Iwaki America
 Yokogawa Corp of
 America

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 Technologies LLC
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 Machine Co
 Bausch Advanced
 Technologies
 BellatRx
 Benz Technology Intl
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 Dematic Corp
 DJS Enterprises
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EquipNet
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Global Equipment, Magnetics Div
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Gough Econ
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HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
Kraemer US LLC
LabX (Auctions)
Lock Inspection Systems
Loma Systems / Lock Inspection Systems
Magnetics Div, Global Equipment Mktg
Nedco Conveyor Technologies
NJM Packaging
OCS Checkweighers
Optima Pharma, Optima Machinaey Corp
Prodo-Pak Corp
QC Industries LLC
Schenck Process
Service Industries
Specialty Equipment
Union Standard Equipment Co
Universal Industries
Vibra Screw

CONVEYORS, CONVERGING AND DIVIDING

American Plastics Technologies - Rao
Design Intl
Auto-Mate Technologies LLC
BellatRx
Custom Metalcraft
Dematic Corp
DJS Enterprises
EquipNet
Eriez
Federal Equipment Co
FP Developments
Garvey Corp
GolIndustry DoveBid
groninger USA LLC
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
Nedco Conveyor Technologies
New England Machinery
NJM Packaging
QC Industries LLC
Spiroflow Systems
Universal Industries
Vibra Screw

CONVEYORS, DEAD PLATE TURNING

American Plastics Technologies - Rao
Design Intl
Auto-Mate Technologies LLC
BellatRx
DJS Enterprises
EquipNet
Federal Equipment Co
Garvey Corp
GolIndustry DoveBid
groninger USA LLC
Jenike & Johanson
Keith Machinery Corp
Nedco Conveyor Technologies
New England Machinery
NJM Packaging
QC Industries LLC
Specialty Equipment

CONVEYORS, DRY MATERIAL

Acrison
American Plastics Technologies - Rao
Design Intl

AZO
Cleveland Vibrator/HK Technologies
Dematic Corp
DJS Enterprises
EquipNet
Eriez
Federal Equipment Co
Garvey Corp
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Gough Econ
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
MECO Shaft Seals, Div
Woodex Bearing Co
Nedco Conveyor Technologies
OCS Checkweighers
QC Industries LLC
Schenck Process
Specialty Equipment
Spiroflow Systems
The Young Industries
Universal Industries
Vac-U-Max
Vibra Screw

CONVEYORS, ELEVATING

American Plastics Technologies - Rao
Design Intl
Custom Metalcraft
Dematic Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Garvey Corp
GolIndustry DoveBid
groninger USA LLC
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
Kraemer US LLC
MECO Shaft Seals, Div
Woodex Bearing Co
Nedco Conveyor Technologies
New England Machinery
NJM Packaging
QC Industries LLC
Spiroflow Systems
Universal Industries
Vac-U-Max

CONVEYORS, LIVE DISK TURNING

American Plastics Technologies - Rao
Design Intl
Dematic Corp
EquipNet
Federal Equipment Co
Garvey Corp
GolIndustry DoveBid
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
Nedco Conveyor Technologies
Spiroflow Systems

CONVEYORS, PNEUMATIC

American Plastics Technologies - Rao
Design Intl
AZO
Custom Metalcraft
Cyclonaire Corp
De Dietrich Process Systems
Dematic Corp

DJS Enterprises
EquipNet
EXAIR Corp
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Kaps-All Packaging Systems
Keith Machinery Corp
Quadro Engineering Corp
Spiroflow Systems
The Young Industries
Vac-U-Max

CONVEYORS, SCREW

Acrison
American Plastics Technologies - Rao
Design Intl
AZO
Bausch Advanced Technologies
Benz Customizing Intl
Custom Metalcraft
Cyclonaire Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Garvey Corp
GolIndustry DoveBid
groninger USA LLC
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Keith Machinery Corp
MECO Shaft Seals, Div
Woodex Bearing Co
National Bulk Equipment
Spiroflow Systems
Union Standard Equipment Co
Vac-U-Max
Vibra Screw

CONVEYORS, SPIRAL

American Plastics Technologies - Rao
Design Intl
Custom Metalcraft
Dematic Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Garvey Corp
GolIndustry DoveBid
HECHT Technologie GmbH, Bulk Material Handling
Jenike & Johanson
Keith Machinery Corp
Kraemer US LLC
MECO Shaft Seals, Div
Woodex Bearing Co
Nedco Conveyor Technologies
Spiroflow Systems
Vac-U-Max
Vibra Screw

CONVEYORS, VACUUM

American Plastics Technologies - Rao
Design Intl
AZO
Bausch Advanced Technologies
DJS Enterprises
EquipNet
EXAIR Corp
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
groninger USA LLC

HECHT Technologie
GmbH, Bulk Material Handling
Jenike & Johanson
Keith Machinery Corp
Piab
Spiroflow Systems
The Young Industries
Vac-U-Max

COOLERS

American Plastics Technologies - Rao
Design Intl
API Heat Transfer, Airtech, Basco, Schmidt-Bretten Divs
Bahnsen Environmental Specialties, An
EMCOR Co
BioCold Environmental
Carltech
Darwin Chambers Co
EquipNet
EXAIR Corp
Federal Equipment Co
GolIndustry DoveBid
International Process
Plants IPP
Mokon
Polar Tech Industries

COOLERS, WALK-IN

American Plastics Technologies - Rao
Design Intl
Bahnsen Environmental Specialties, An
EMCOR Co
BioCold Environmental
Budzar Industries
Darwin Chambers Co
DJS Enterprises
EquipNet
Federal Equipment Co
GolIndustry DoveBid
Nor-Lake
Terra Universal

COOLING TUNNELS

American Plastics Technologies - Rao
Design Intl
DJS Enterprises
EquipNet
Federal Equipment Co
GolIndustry DoveBid
Union Standard Equipment Co

CRUSHERS

Custom Metalcraft
EquipNet
Federal Equipment Co
Franklin Miller
Glen Mills
GolIndustry DoveBid
HECHT Technologie GmbH, Bulk Material Handling
International Process
Plants IPP
Keith Machinery Corp
Kemutec
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Nicos Group
Quadro Engineering Corp
Retsch
Stedman
Sturtevant
The Young Industries
Urschel Labs
Wyssmont Co

CUSTOM CONTAINERS

Charles Ross & Son Co
Custom Powder Systems
GolIndustry DoveBid
METO Corp
Paul Mueller Co
Pope Scientific
Saint-Gobain
Performance Plastics

Sani-Matic
Snyder Industries, Dry Handling & IBC Div
Town & Country Plastics
WRH Industries Ltd

DATA-ACQUISITION SYSTEMS

ACR Systems
Acrison
Acromag
Artel
Badger Meter
Charles Ross & Son Co
Climet Instruments Co
Cole-Parmer
Control Co
DeltaTRAK
Dickson
E Instruments Intl
Ellab
EquipNet
GEA Process
Engineering, GEA
Pharma Systems

GlobePharma

GolIndustry DoveBid
groninger USA LLC
Hampshire Controls Corp
Kaps-All Packaging Systems
Masy Systems
MKS Instruments
Newport Electronics
Omega Engineering
Process Tek
Rockwell Automation
Specialty Equipment
Status Instruments
Testo
TMI USA
Two Dimensional Instruments LLC
Walchem Iwaki America
Waters Corp, Waters Div
Wessex Power Technology, Pharmaceutical Instrumentation
Yokogawa Corp of America

DEAERATORS

API Heat Transfer, Airtech, Basco, Schmidt-Bretten Divs
Armfield Ltd, Industrial Div
Charles Ross & Son Co
EquipNet
Federal Equipment Co
FrymaKoruma GmbH
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Jaygo
Membrana
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Pope Scientific
Process Tek
Union Standard Equipment Co
Werner Mathis USA, North America

DEBLISTERERS

DJS Enterprises
EquipNet
GolIndustry DoveBid
Schaefer Technologies
Sepha Ltd
Union Standard Equipment Co

DEHUMIDIFIERS

Bahnsen Environmental Specialties, An
EMCOR Co
Bry-Air
EquipNet
GolIndustry DoveBid

Keith Machinery Corp
Lectrodryer
Membrana
Munters Corp, Air Treatment
Siemens Infrastructure + Cities, Building Technologies Div
Terra Universal

DENSITY INSTRUMENTATION, GASES, LIQUIDS, SOLIDS

Anton PAAR USA
Automation Products, Dynatrol @ Div
BioPro Intl
EquipNet
GolIndustry DoveBid
Krohne
Mettler Toledo, Lab Micromeritics
Instrument Corp
Texture Technologies Corp
Uehling Instrument Co
Yokogawa Corp of America

DEHYDRATION SYSTEMS

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
Bosch Packaging Technology, Pharma
EquipNet
GolIndustry DoveBid
groninger USA LLC
Nicos Group
Optima Pharma, Optima Machinaey Corp
Pall Life Sciences, Biopharmaceuticals
Process Tek
Telstar North America
The Grieve Corp

DESICCANT FEEDERS

BellatRx
Capmatic Ltd, Headquarters
DJS Enterprises
Equipment Technology Co
EquipNet
GolIndustry DoveBid
Kaps-All Packaging Systems
Key Intl
Multisorb Technologies
New England Machinery
NJM Packaging

DESICCATOR CABINETS AND TOTE BOXES

Blue Thunder Technologies
Cleatech LLC
Darwin Chambers Co
Engard Systems, Div Containment Technologies Group
EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Isolation Systems
Labconco Corp
Terra Universal

DETECTORS, METAL

CEIA USA
DJS Enterprises
Equipment Technology Co
EquipNet
Eriez



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For vendor contact information, see Company Directory section.

Federal Equipment Co Fette Compacting America

Fortress Technology
Global Equipment,
Magnetics Div
GolIndustry DoveBid
Keith Machinery Corp
Key Intl
Kraemer US LLC
Lock Inspection
Systems
Loma Systems / Lock
Inspection Systems
Magnetics Div, Global
Equipment Mktg
Mettler-Toledo Hi-
Speed, Product
Inspection Div
Natoli Engineering Co
OCS Checkweighers
Rubber Fab
Technologies Group
Union Standard
Equipment Co

DETERGENTS

Alconox
Borer Chemie AG, Life
Sciences
Decon Labs
Ecolab
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
International
Products Corp
Labconco Corp
Natoli Engineering Co
Veltek Associates Inc

DETERGENTS, GERMICIDAL

Borer Chemie AG, Life
Sciences
Decon Labs
Ecolab
EquipNet
GolIndustry DoveBid

DEWAR FLASKS

Apache Stainless
Equipment Corp
Cole-Parmer
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Pope Scientific

DIAFILTRATION (DESALTING) EQUIPMENT

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Novasep
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals

DIAMOND DUST POLISHING COMPOUND

EquipNet
GolIndustry DoveBid
Natoli Engineering Co

DIGITAL INDICATORS, ELECTRONIC

ACR Systems
Anderson Instrument Co
Ashcroft
Atlantic Scale Co

Dickson
El Instruments Intl
Ellab
EquipNet
FSI Technologies
GolIndustry DoveBid
Hoffer Flow Controls
Krohne
Natoli Engineering Co
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Rice Lake Weighing
Systems
Specialty Equipment
Status Instruments
Two Dimensional
Instruments LLC
Yokogawa Corp of
America

DIGITAL METERS

Anton PAAR USA
Ashcroft
Beamex
DJS Enterprises
Ellab
EquipNet
GolIndustry DoveBid
Kaps-All Packaging
Systems
Krohne
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Spectronics Corp
Status Instruments
Testo
Two Dimensional
Instruments LLC
Yokogawa Corp of
America

DISINFECTANTS

Aquionics
Blue Thunder
Technologies
Borer Chemie AG, Life
Sciences
Contec
Decon Labs
DJS Enterprises
Ecolab
Edgeco
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Mar Cor Purification
Mycoscience

DISINFECTANTS, AEROSOL

Blue Thunder
Technologies
Decon Labs
Edgeco
EquipNet
GolIndustry DoveBid
Mar Cor Purification
Process Tek
Veltek Associates Inc

DISPENSERS, LIQUID AND POWDER

Apache Stainless
Equipment Corp
Bausch + Stroebel
Machine Co
Bausch Advanced
Technologies
Blue Thunder
Technologies
Capmatic Ltd,
Headquarters
Cole-Parmer
Edgeco
EquipNet
Federal Equipment Co
Filamatic, National
Instrument LLC

Fluid Metering
ElIndustry DoveBid
Kaps-All Packaging
Systems
Keith Machinery Corp
Pope Scientific
Schenck Process
Westfield Sheet
Metal Works

DISSOLVERS, SUGAR

EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Ruland Engineering &
Consulting GmbH

DISTILLATION EQUIPMENT, LABILE MATERIALS AND WIPED FILM

American Plastics
Technologies - Rao
Design Intl
APV, An SPX Brand,
SPX Flow Technology
Buchiglas-USA Corp
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
DJS Enterprises
EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
JLS Intl
Myers Vacuum Repair
Services
NexGen Enviro Systems
Pope Scientific
The ChemPro Group

DOLLIES

Akro-Mills
Custom Metalcraft
DJS Enterprises
EquipNet
GolIndustry DoveBid
Hurst Corp
Isolation Systems
Liftomatic Material
Handling
MO Industries

DOOR SYSTEMS (DOORS, FRAMES, HARDWARE, SEALS)

Air-Lec Industries
Central Research Labs
Corrim Co
EquipNet
GolIndustry DoveBid
Horton Automatics
Isolation Systems
Nicos Group
Rite-Hite
Simplex Isolation
Systems, Div Simplex
Strip Doors

DRUM LIFTING EQUIPMENT

Custom Metalcraft
Custom Powder
Systems
DJS Enterprises
Edgeco
EHS Solutions LLC
EquipNet

Excalibur Miretti
Group LLC
GolIndustry DoveBid
HECHT Technology
GmbH, Bulk Material
Handling
Isolation Systems
Liftomatic Material
Handling
Material Transfer &
Storage
METO Corp
MO Industries
Morse Mfg
National Bulk
Equipment
Nicos Group
Process Solutions
R on I
Specialty Equipment
Spiroflow Systems
Vac-U-Max

DRUM WASHING MACHINES

Custom Metalcraft
Custom Powder
Systems
DJS Enterprises
EquipNet
Gamajet Cleaning
Systems
Girton Mfg Co,
Pharmaceutical Div
GolIndustry DoveBid
MO Industries
Nicos Group
Sani-Matic
Werner Mathis USA,
North America

DRUMS (SEE ALSO PACKAGING EQUIPMENT AND MATERIALS SECTION)

Apache Stainless
Equipment Corp
Assmann Corp of
America
Custom Metalcraft
DJS Enterprises
EquipNet
GolIndustry DoveBid
LB Bohle LLC
METO Corp
MO Industries
Nicos Group
Pope Scientific
Procept nv
Process Solutions
Rotonics Mfg, RMI-
Chicago
Specialty Equipment
Town & Country Plastics

DRY ICE

**EQUIPMENT/
DRY ICE MAKING
EQUIPMENT/
CO - DRY ICE
EQUIPMENT**
Polar Tech Industries

DRY ROOMS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
Darwin Chambers Co
EquipNet
GolIndustry DoveBid
Terra Universal

DRYERS (SEE ALSO LABORATORY EQUIPMENT AND SUPPLIES SECTION)

3V COGEM
American Plastics
Technologies - Rao
Design Intl
Armfield Ltd,
Industrial Div

BHS-Filtration
Charles Ross & Son Co
Custom Heat LLC
De Dietrich Process
Systems
DJS Enterprises
EquipNet
Evaporator Dryer
Technologies
Federal Equipment Co
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
Girton Mfg Co,
Pharmaceutical Div
Globe Scientific
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Isolation Systems
Jaygo
JLS Intl
LabX (Auctions)
Liberty Industries
Procept nv
Steri Technologies
Telstar North America
The Grieve Corp
Union Standard
Equipment Co
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, AIR

Alstom Power, Raymond
Operations
BETE Fog Nozzle
Bry-Air
Custom Heat LLC
Custom Metalcraft
DJS Enterprises
Drying Technology
EquipNet
Evaporator Dryer
Technologies
EXAIR Corp
Exothermics
Federal Equipment Co
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Ingersoll-Rand,
Compressed Air
Solutions
Isolation Systems
JLS Intl
Keith Machinery Corp
Lectrodryer
Liberty Industries
Munters Corp, Air
Treatment
Natoli Engineering Co
Optima Pharma, Optima
Machinaey Corp
Pink GmbH
Thermosysteme
RJM Sales
Terra Universal
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, CENTRIFUGAL

Blue Lion Biotech
DJS Enterprises
EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Heinkel
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jongia, Div MPE Group
USA LLC
Kine Spin Div/Barrett,
Kinefac Corp

KINESPIN,
A Division Of Kinefac
Corporation
Robatel

DRYERS, CONTINUOUS

AIM Blending
Technologies
Alstom Power, Raymond
Operations
Benz Technology Intl
BHS-Filtration
De Dietrich Process
Systems
DJS Enterprises
Drying Technology
EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Komline-Sanderson
LB Bohle LLC
Lectrodryer
Munters Corp, Air
Treatment
Steri Technologies
Werner Mathis USA,
North America
Wyssmont Co

DRYERS, DRUM

Benz Technology Intl
Custom Heat LLC
Custom Metalcraft
Drying Technology
EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
Girton Mfg Co,
Pharmaceutical Div
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
JLS Intl
Keith Machinery Corp
McGill AirPressure LLC
MECO Shaft Seals, Div
Woodex Bearing Co
Union Standard
Equipment Co
Werner Mathis USA,
North America

DRYERS, FLASH

Alstom Power, Raymond
Operations
Benz Technology Intl
Drying Technology
EquipNet
Evaporator Dryer
Technologies
Exothermics
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
SPX Flow Technology
The ChemPro Group
Wyssmont Co

DRYERS, FLUID-BED

AC Compacting LLC
Benz Technology Intl
Budzar Industries
Charles Ross & Son Co
DJS Enterprises
Drying Technology
EquipNet

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- Medical Systems

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 Fluid Air, Spraying Systems Co
 630-665-5001
 fax 630-665-5981
 fluidairinfo@spray.com
 www.fluidairinc.com

See ad on page 61

Freund-Vector Corp
 GEA Process Engineering, GEA Pharma Systems
 Glen Mills
GlobePharma
 GolIndustry DoveBid International Process Plants IPP
 Kavon Filter Products Co
 Keith Machinery Corp
 Key Intl
 LB Bohle LLC
 Nicos Group
 Procept nv
 Retsch
 SP Scientific - HULL/VIRTIS/FTS
 SPX Flow Technology
 Techceuticals
 Union Standard Equipment Co

DRYERS, PADDLE
 3V COGEIM
 AIM Blending Technologies
 Bolz-Summix
Charles Ross & Son Co
 Comber USA
 DJS Enterprises
 Drying Technology
EquipNet
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 Hosokawa Micron Powder Systems
 International Process
 Plants IPP
 Jaygo
 Jongia, Div MPE Group USA LLC
 Keith Machinery Corp
 Komline-Sanderson
 McGill AirPressure LLC

DRYERS, ROTATING TRAY
 Budzar Industries
 Custom Metalcraft
 Drying Technology
EquipNet
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 Keith Machinery Corp
 McGill AirPressure LLC
 Pink GmbH
 Thermosysteme
 Wyssmont Co

DRYERS, SELF-CLEANING
 Budzar Industries
 DJS Enterprises
 Drying Technology
EquipNet
Federal Equipment Co
 GolIndustry DoveBid
 Hosokawa Micron Powder Systems
 Nicos Group
 Sani-Matic
 SWECO
 Wyssmont Co

DRYERS, SPRAY
 AC Compacting LLC
 Armfield Ltd, Industrial Div
 Benz Technology Intl
 BETE Fog Nozzle
 BUCHI Corp
 DJS Enterprises
 Drying Technology
EquipNet
 Evaporator Dryer Technologies
 Exothermics
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 Keith Machinery Corp
 Procept nv
 SPX Flow Technology

DRYERS, TRAYS FOR SOFT GELATIN CAPSULES
 Custom Metalcraft
 DJS Enterprises
 Drying Technology
EquipNet
Federal Equipment Co
 GolIndustry DoveBid
 International Process
 Plants IPP
 Molded Fiber Glass Tray Co
 Pink GmbH
 Thermosysteme
 WRH Industries Ltd
 Wyssmont Co

DRYERS, TRUCK, SHELF AND VACUUM
 Drying Technology
EquipNet
Federal Equipment Co
 FPS Food & Pharma Systems Srl
 GolIndustry DoveBid
 International Process
 Plants IPP
 Jaygo
 JLS Intl
 McGill AirPressure LLC
 Pink GmbH
 Thermosysteme
 Steri Technologies
 Telstar North America
 The Grieve Corp
 Union Standard Equipment Co
 Wyssmont Co

DRYERS, VACUUM AGITATION
 3V COGEIM
 AIM Blending Technologies
 Bolz-Summix
Charles Ross & Son Co
 Comber USA
 De Dietrich Process Systems
 Drying Technology
EquipNet
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 Heinkel
 Hosokawa Micron Powder Systems
 International Process
 Plants IPP
 Jaygo
 JLS Intl
 Jongia, Div MPE Group USA LLC
 Komline-Sanderson
 McGill AirPressure LLC
 Pink GmbH
 Thermosysteme
 Procept nv
 Wyssmont Co

DRYERS, VACUUM TUMBLE
 3V COGEIM
Charles Ross & Son Co
 De Dietrich Process Systems
 DJS Enterprises
 Drying Technology
EquipNet
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 Jaygo
 McGill AirPressure LLC

DRYERS, VACUUM VIBRATION
 DJS Enterprises
 Drying Technology
EquipNet
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 Hosokawa Micron Powder Systems
 SWECO

ELECTRICAL EQUIPMENT, GENERATORS
EquipNet
 GolIndustry DoveBid
 Reimers Electra Steam

ELECTRICAL EQUIPMENT, MOTORS AND CONTROLS
 Advanced Motion Controls
 Cole-Parmer
 Control 7
 Cosense
 Custom Heat LLC
EquipNet
 FSI Technologies
 GolIndustry DoveBid
 Haydon Kerk Motion Solutions
 Omega Engineering
 Rockwell Automation
 Siemens Industry, Automation & Drive Technologies
 Specialty Equipment
 Stainless Motors

ELECTRONIC TEST EQUIPMENT
 ACR Systems
 Aspex Corp, An FEI Co, Analytical Services
 Automation Products, Dynatrol @ Div
 Beamex
 Cole-Parmer
 E Instruments Intl
EquipNet
 GolIndustry DoveBid
 Kaps-All Packaging Systems
 LT Industries
 Masy Systems
 Palmer Wahl Temperature Products
 Siemens Infrastructure + Cities, Building Technologies Div
 Testing Machines
 Yokogawa Corp of America

EMISSIONS CONTROL
 ABB Analytical Measurement
 Adwest Technologies, VOC Abatement Div

Anguil Environmental Systems
 BinMaster, Div Garner Industries
 GolIndustry DoveBid
 Goyen Valve LLC, Pentair Environmental Systems
 Isolation Systems
 McGill AirClean LLC
 Met - Pro Environmental Air Solutions - Flex-Kleen
 Met-Pro Environmental Air Solutions - Systems, Met-Pro Corp
 MikroPul
 Neutronics, Gas Analysis Solutions
 NUCON Intl
 Siemens Industry, Automation & Drive Technologies
 Siemens Infrastructure + Cities, Building Technologies Div
 United Air Specialists, a CLARCOR Co

ENERGY RECOVERY SYSTEMS
 ADI Systems
 Adwest Technologies, VOC Abatement Div
 Anguil Environmental Systems
 Exothermics
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 Munters Corp, Air Treatment
 Siemens Infrastructure + Cities, Building Technologies Div
 Strobic Air Corp, Sub Met-Pro Corp
 The ChemPro Group

EQUIPMENT COVERS
 DJS Enterprises
 GolIndustry DoveBid
Natoli Engineering Co
 Trax Industrial Products Corp, Trax CleanRoom
 Curtains Div

EQUIPMENT INSTALLATION
 A&B Process Systems Corp
 BellatRx
 BIOQUELL, Life Sciences
 Blue Lion Biotech
 Bosch Packaging Technology, Pharma
 Distek
 DJS Enterprises
 Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co
 FP Developments
 GolIndustry DoveBid
 Isolation Systems
 Magnatech LLC
 OCS Checkweighers
 Paul Mueller Co
Qualicaps
 Ruland Engineering & Consulting GmbH
 Sani-Matic

EQUIPMENT LEASING & FINANCING
 Black Forest Container Systems LLC
 DJS Enterprises
 Pentair Haffmans
 Union Standard Equipment Co

ESD MONITORING AND DETECTION SYSTEMS
 Amstat Industries
 Blue Lion Biotech
 Blue Thunder Technologies
 EXAIR Corp
 General Lab & Cleanroom Supply, dba General Lab Supply
 GolIndustry DoveBid
 Isolation Systems
 Lighthouse Worldwide Solutions
 Meech Static Eliminators USA
 OCS Checkweighers
 Plug-In Storage Systems /PSSI
 Renco Corp
 Sensaphone
 Terra Universal
 Wessex Power Technology, Pharmaceutical Instrumentation

EVAPORATORS, TUBULAR
 3V COGEIM
 API Heat Transfer, Airtech, Basco, Schmidt-Bretten Divs
 APV, An SPX Brand, SPX Flow Technology
 Benz Technology Intl
 Blue Lion Biotech
EquipNet
 Evaporator Dryer Technologies
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 Novasep
 Pope Scientific

EVAPORATORS, WIPE-FILM
 3V COGEIM
 Alfa Laval
 APV, An SPX Brand, SPX Flow Technology
 Benz Technology Intl
 De Dietrich Process Systems
EquipNet
 Evaporator Dryer Technologies
Federal Equipment Co
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 JLS Intl
 Keith Machinery Corp
 Myers Vacuum Repair Services
 Novasep
 Pope Scientific

EXPLOSION PROTECTION EQUIPMENT
 EHS Solutions LLC
 Evaporator Dryer Technologies
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 Industrial Hydrocarbons
 Isolation Systems
 Neutronics, Gas Analysis Solutions
 Newson Gale
 Stainless Motors
 United Air Specialists, a CLARCOR Co

EXTRACTION, SUPER-CRITICAL FLUID
 GolIndustry DoveBid
 International Process
 Plants IPP

EXTRACTORS
 Armfield Ltd, Industrial Div
 BUCHI Corp
 GEA Process Engineering, GEA Pharma Systems
 GolIndustry DoveBid
 International Process
 Plants IPP
 Isolation Systems
 Kine Spin Div/Barrett, Kinefac Corp
 KINESPIN, A Division Of Kinefac Corporation
 Robatel
 Steri Technologies
 The ChemPro Group

EXTRUDERS
 AC Compacting LLC
 American Plastics Technologies - Rao Design Intl
 Avestin
 Benz Technology Intl
Charles Ross & Son Co
CW Brabender Instruments
Federal Equipment Co
 GolIndustry DoveBid
 International Process
 Plants IPP
 KNF Corp
 LabX (Auctions)
 LB Bohle LLC
 LCI Corp
 Leistritz
 MECO Shaft Seals, Div
 Wooddex Bearing Co
 NETZSCH Premier Technologies LLC, Grinding & Dispersing
 Procept nv
 Sigma Equipment Corp
 Thermo Scientific, Chemical Analysis
 Div-Material Characterization Business
 Union Standard Equipment Co

EXTRUDERS, HOT MELT
 AC Compacting LLC
Charles Ross & Son Co
CW Brabender Instruments
 Procept nv
 Thermo Scientific, Chemical Analysis
 Div-Material Characterization Business

FABRICATIONS, SPECIAL
 A&B Process Systems Corp
 Allegheny Bradford Corp, Corporate
 Apache Stainless Equipment Corp
Charles Ross & Son Co
 Cleveland Vibrator/HK Technologies
 Custom Metalcraft
 Custom Powder Systems
 Garvey Corp
 GMP Systems
 GolIndustry DoveBid
 Isolation Systems
 JLS Intl
 National Bulk Equipment
 Process Solutions
 RW Hartnett Co
 Safety Equipment Corp

For vendor contact information, see Company Directory section.

Sani-Matic
Seal Master Corp
Specialty Equipment
Swagelok Co
Top Line Process
Equipment Co

**FACILITY
MONITORING
SYSTEMS**

Climet Instruments Co
GolIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Hampshire
Controls Corp
Hoffer Flow Controls
Lighthouse Worldwide
Solutions
Masy Systems
Mil-Ram Technology
Particle Measuring
Systems
R Kraft (RKI)
Sensaphone
Siemens Infrastructure +
Cities, Building
Technologies Div

**FEEDERS,
CENTRIFUGAL**

Jenike & Johanson

**FEEDERS,
GRAVIMETRIC**

Jenike & Johanson

**FEEDERS,
VIBRATORY**

Jenike & Johanson

**FEEDERS,
VOLUMETRIC**

Jenike & Johanson

FEEDERS, WEIGH

Jenike & Johanson

**FERMENTATION
EQUIPMENT**

Bioengineering AG
Eppendorf
Sartorius Stedim North
America

**FERMENTATION
SEPARATION/
PURIFICATION
SYSTEMS**

Meissner Filtration
Products

**FILLING MACHINE
FILTERS**

American Plastics
Technologies - Rao
Design Intl
Atmos-Tech Industries
DJS Enterprises
GolIndustry DoveBid
Keith Machinery Corp
**Meissner Filtration
Products**
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Rubber Fab
Technologies Group
Specialty Equipment
Unibloc-Pump,
Flowtech Div
Union Standard
Equipment Co

FILTER CARTRIDGES

3M Purification
AAF Intl, (American Air
Filter)
Atmos-Tech Industries

Bergen Industrial
Supply Co
Cole-Parmer
Donaldson Co,
Donaldson Torit
Ecolab
EquipNet
GMP Systems
GolIndustry DoveBid
Isolation Systems
JLS Intl
Keystone Filter,
Met-Pro Corp
Mefiag, Met-Pro Corp
Met - Pro Environmental
Air Solutions - Flex-
Kleen
Midwesco Filter
Resources, Fabric
Filter Div
MikroPul
Mott Corp
Mycoscience
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Pentair Haffmans
RJM Sales
Sartorius Stedim North
America
Schenck Process
Swagelok Co
Tri-Mer Corp
United Air Specialists, a
CLARCOR Co
WS Tyler

**FILTER HOUSING
AND HARDWARE**

3M Purification
AAF Intl, (American
Air Filter)

Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
Atmos-Tech Industries
BHS-Filtration
BioDesign of New York
Cole-Parmer
Donaldson Co,
Donaldson Torit
Ecolab
EquipNet
GMP Systems
GolIndustry DoveBid
JLS Intl
Keystone Filter,
Met-Pro Corp
Mefiag, Met-Pro Corp
**Meissner Filtration
Products**
Midwesco Filter
Resources, Fabric
Filter Div
MikroPul
MKS Instruments
MM Industries,
Vorti-Siv Div
MultiTherm LLC
NUCON Intl
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Pentair Haffmans
RJM Sales
Sani-Matic
Sartorius Stedim North
America
Schenck Process
Swagelok Co

FILTER MEDIA

Atmos-Tech Industries
Komline-Sanderson

**Meissner Filtration
Products**
Pentair Haffmans
Sartorius Stedim North
America

FILTER PLATES

Comber USA

FILTER PRECOATS

Comber USA

FILTER PRESSES

Comber USA

FILTER TESTING

Atmos-Tech Industries
Pentair Haffmans
Sartorius Stedim North
America

**FILTER UNITS,
FABRICATED**

Benz Technology Intl
Buchiglas-USA Corp
CleanZones LLC
Komline-Sanderson
Parker domnick hunter,
Process Filtration
United Air Specialists,
a CLARCOR Co

FILTERS, AGITATED

Benz Technology Intl
Comber USA

**FILTERS, CAKE
WASHING**

Benz Technology Intl
Comber USA
Komline-Sanderson

**FILTERS,
COMPRESSED-AIR
Meissner Filtration
Products**

Parker domnick hunter,
Process Filtration
Pentair Haffmans

**FILTERS,
CONTINUOUS**

Komline-Sanderson
**Meissner Filtration
Products**
Tri-Mer Corp

**FILTERS,
DISPOSABLE**

**Meissner Filtration
Products**

Parker domnick hunter,
Process Filtration
Sartorius Stedim North
America

FILTERS, GLASS

Buchiglas-USA Corp
**Meissner Filtration
Products**

Parker domnick hunter,
Process Filtration

**FILTERS,
HOLLOW-FIBER**

Pentair Haffmans

**FILTERS,
MEMBRANE**

ABEC Filtration Systems
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Benz Technology Intl
**Meissner Filtration
Products**

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ROLL COMPACTORS



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HIGH SHEAR GRANULATORS (Bottom Dr.)

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Parker domnick hunter,
Process Filtration
Sartorius Stedim North
America
Tri-Mer Corp

**FILTERS,
MICROFILTRATION**
Flowmatics
**Meissner Filtration
Products**

Parker domnick hunter,
Process Filtration
Pentair Haffmans
Tri-Mer Corp

FILTERS, NUTSCHE
Comber USA

FILTERS, NYLON 66
Parker domnick hunter,
Process Filtration

FILTERS, PAPER
Sartorius Stedim North
America

**FILTERS,
POLYPROPYLENE
(GAS AND LIQUID)**
**Meissner Filtration
Products**
Parker domnick hunter,
Process Filtration
Sartorius Stedim North
America

FILTERS, PRESSURE
Benz Technology Intl
Buchiglas-USA Corp
Comber USA
**Meissner Filtration
Products**

**FILTERS, PTFE (AIR
AND LIQUID)**
**Meissner Filtration
Products**
Parker domnick hunter,
Process Filtration
Sartorius Stedim North
America
Tri-Mer Corp

**FILTERS,
REVERSE-OSMOSIS**
**Meissner Filtration
Products**

**FILTERS, ROTARY
DRUM**
Benz Technology Intl
Komline-Sanderson

**FILTERS,
SELF-CLEANING**
3M Purification
Anguil Environmental
Systems
Automatic Filters -
Tekleen
Comber USA
Donaldson Co,
Donaldson Torit
Fisher-Klosterman
GoIndustry DoveBid
International Process
Plants IPP
JLS Intl
Kavon Filter
Products Co
MM Industries, Vorti-
Siv Div
Russell Finex
SWECO
Tri-Mer Corp
WS Tyler

FILTERS, STEAM
3M Purification
EquipNet
G-M-I
GoIndustry DoveBid

International Process
Plants IPP
Kavon Filter
Products Co

**Meissner Filtration
Products**

Mott Corp
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Pentair Haffmans
Process Tek
Spirax Sarco
SWECO

**FILTERS,
TANGENTIAL-FLOW**

Ecolab
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GoIndustry DoveBid
International Process
Plants IPP
Mar Cor Purification
Microdyn Technologies
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Tri-Mer Corp
WS Tyler

**FILTERS,
ULTRAFILTRATION**

AAF Intl, (American
Air Filter)
BioDesign of New York
Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
Ecolab
EquipNet
Federal Equipment Co
G-M-I
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GoIndustry DoveBid
International Process
Plants IPP
Isolation Systems
JLS Intl
Kavon Filter
Products Co
Labconco Corp
LM Air Technology,
Cleanroom & Lab
Equipment
Mar Cor Purification
Medro Systems
Microdyn Technologies
Novasep
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Rees Scientific
Sartorius Stedim North
America
SWECO
Terra Universal
Tri-Mer Corp

**FILTERS, ROTARY
DRUM**
Benz Technology Intl
Komline-Sanderson

**FILTERS,
SELF-CLEANING**
3M Purification
Anguil Environmental
Systems
Automatic Filters -
Tekleen
Comber USA
Donaldson Co,
Donaldson Torit
Fisher-Klosterman
GoIndustry DoveBid
International Process
Plants IPP
JLS Intl
Kavon Filter
Products Co
MM Industries, Vorti-
Siv Div
Russell Finex
SWECO
Tri-Mer Corp
WS Tyler

FILTERS, VACUUM
3V COGEIM
Benz Technology Intl
BHS-Filtration
Buchiglas-USA Corp
Cole-Parmer
Comber USA
De Dietrich Process
Systems

EquipNet
Federal Equipment Co

G-M-I
GoIndustry DoveBid
International Process
Plants IPP
Jaygo
JLS Intl
Kavon Filter
Products Co
Keith Machinery Corp
Komline-Sanderson
Nilfisk-Advance,
Industrial
Vacuum Div
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Piab
Pope Scientific
Powder Systems Ltd
Procept nv
SWECO
Terra Universal
The Young Industries

**FILTERS,
VIRUS REMOVAL**

3M Purification
AAF Intl, (American
Air Filter)
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
Mar Cor Purification
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Sartorius Stedim North
America
**Spectrum Chemical
Mfg Corp**

FITTINGS, CLAMP

AdvantaPure
Alfa Laval
ARCHON Industries
Bergen Industrial
Supply Co
Cole-Parmer
De Dietrich Process
Systems
**Eagle Stainless
Container**
EquipNet
Geci Tech LLC
GMP Systems
GoIndustry DoveBid
Masy Systems
MKS Instruments
Palmer Wahl
Temperature Products
QMI
Rubber Fab
Technologies Group
SaniSure
Seal Master Corp
Swagelok Co
Top Line Process
Equipment Co
Value Plastics
VNE Corp
Waukesha
Cherry-Burrell, An
SPX Brand, SPX Flow
Technology

**FITTINGS,
PTFE (TUBE-TYPE)**

AdvantaPure
Agilent Technologies
Asahi/America
Bergen Industrial
Supply Co
Cole-Parmer
EquipNet
Geci Tech LLC
GoIndustry DoveBid
Palmer Wahl
Temperature Products
Qosina

Rubber Fab
Technologies Group
Saint-Gobain
Performance Plastics
Swagelok Co
Top Line Process
Equipment Co
Valco Instruments Co
(VICI)
VNE Corp

**FITTINGS,
QUICK-CONNECT**

AdvantaPure
ARCHON Industries
Asahi/America
Bergen Industrial
Supply Co
Beswick Engineering Co
Cole-Parmer
Conax Technologies
EquipNet
Geci Tech LLC
GoIndustry DoveBid
Masy Systems
MKS Instruments
Palmer Wahl
Temperature Products
Qosina
Rubber Fab
Technologies Group
Saint-Gobain
Performance Plastics
Seal Master Corp
Swagelok Co
The Young Industries
Top Line Process
Equipment Co
Value Plastics
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

**FITTINGS, SANITARY
BEVEL-SEAT**

AdvantaPure
Bergen Industrial
Supply Co
EquipNet
Geci Tech LLC
GMP Systems
GoIndustry DoveBid
Palmer Wahl
Temperature Products
Parker Hannifin - TexLoc
Process Tek
QMI
Rubber Fab
Technologies Group
Top Line Process
Equipment Co
VNE Corp
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

**FITTINGS, SANITARY
BUTT-WELD**

AdvantaPure
Alfa Laval
Asahi/America
Bergen Industrial
Supply Co
Cole-Parmer
Conax Technologies
**Eagle Stainless
Container**
EquipNet
Geci Tech LLC
GF Piping Systems
GMP Systems
GoIndustry DoveBid
MKS Instruments
Palmer Wahl
Temperature Products
Process Tek
QMI
Rubber Fab
Technologies Group
SPX Flow Technology
The Young Industries
Top Line Process
Equipment Co
Valco Instruments Co
(VICI)
VNE Corp

Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

**FITTINGS, SANITARY
BUTT-WELD,
AUTOMATIC**

Bergen Industrial
Supply Co
EquipNet
Geci Tech LLC
GMP Systems
GoIndustry DoveBid
MKS Instruments
Process Tek
Rubber Fab
Technologies Group
SPX Flow Technology
Top Line Process
Equipment Co
VNE Corp
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

**FITTINGS, TANKER
(AND ACCESSORIES)**
MKS Instruments

**FITTINGS, TUBE OD
BUTT-WELD**
GMP Systems
MKS Instruments

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SYSTEMS**
Key Intl

**FLOW
MEASUREMENT
INSTRUMENTATION**

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Chemical Transfer
Partnership Corp,
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fax 404-344-4003
info@gemu.com
www.gemu.com

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Greyline Instruments
Mesa Labs
MKS Instruments

**FLOW
TRANSMITTERS**

Greyline Instruments
MKS Instruments

**FLUID-BED
EQUIPMENT**

AC Compacting LLC
Bosch Packaging
Technology, Pharma
DJS Enterprises
Evaporator Dryer
Technologies
Exothermics
Federal Equipment Co
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fax 216-271-5210
pharmaceutical@fedequip.com
www.fedequip.com

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Systems Co**

630-665-5001
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fluidairinfo@spray.com
www.fluidairinc.com

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GEA Process
Engineering, GEA
Pharma Systems
Glatt Air Techniques
GoIndustry DoveBid
International Process
Plants IPP
Kavon Filter
Products Co
Keith Machinery Corp
LB Bohle LLC
Nicos Group
Procept nv
Process Solutions
Techceuticals
Union Standard
Equipment Co
WS Tyler

**FLUORESCENT
LAMPS,
SHATTERPROOF**

GoIndustry DoveBid
Isolation Systems

FREEZERS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
Blue Lion Biotech
Cole-Parmer
Darwin Chambers Co
DJS Enterprises
EGC (Environmental
Growth Chambers)
Eppendorf
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GoIndustry DoveBid
Nor-Lake
Polar Tech Industries
Powers Scientific
So-Low Environmental
Equipment Co
Terra Universal
Woodley
Equipment Co Ltd

**GAS SEPARATION
MEMBRANES**

GoIndustry DoveBid
JLS Intl
Membrana
RJM Sales

GASKET MATERIAL

Bergen Industrial
Supply Co
DJS Enterprises
EquipNet
G-M-I
GoIndustry DoveBid
Pawling Engineered
Products
Rubber Fab
Technologies Group
Seal Master Corp
WL Gore & Assocs,
Gore PharmBIO
Products

GASKETS, OTHER

Bergen Industrial
Supply Co
DCI
De Dietrich Process
Systems
EquipNet
G-M-I
GoIndustry DoveBid
Helix Medical LLC
MKS Instruments
Palmer Wahl
Temperature Products

Pawling Engineered Products
Row Rubber Fab Technologies Group
Seal Master Corp Swagelok Co
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

GASKETS, SANITARY

ARCHON Industries
Bergen Industrial Supply Co
Cole-Parmer
De Dietrich Process Systems
EquipNet
Evaporator Dryer Technologies
G-M-I
GlobePharma
GMP Systems
GoIndustry DoveBid
Masy Systems
MKS Instruments
Newman Sanitary Gasket Co
Palmer Wahl
Temperature Products
Pawling Engineered Products
Row Rubber Fab Technologies Group
Seal Master Corp
Swagelok Co
Top Line Process Equipment Co
Waukesha Cherry-Burrell, An SPX Brand, SPX Flow Technology
WL Gore & Assocs, Gore PharmBIO Products

GENERATORS, STAND-BY POWER
DJS Enterprises
GoIndustry DoveBid
Siemens Infrastructure + Cities, Building Technologies Div

GLOVE BOXES

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C & C Corp
Central Research Labs
Cole-Parmer
Custom Powder Systems
Edgeco
Enguard Systems, Div Containment Technologies Group
FabOhio
Federal Equipment Co
FPS Food & Pharma Systems Srl
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
HECHT Technologie GmbH, Bulk Material Handling
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Key Intl
Labconco Corp
McCrone
Microscopes & Accessories
Mycoscience
Nicos Group
NuAire
Powder Systems Ltd
Renco Corp
Ronco
Specialty Equipment

GRANULATORS, ROTARY, FLUID-BED, CENTRIFUGAL
ACG North America LLC
C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Fuid Air, Spraying Systems Co
Franklin Miller
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sales@freund-vector.com
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GEA Process Engineering, GEA Pharma Systems
GlobePharma
GoIndustry DoveBid
Hosokawa Micron Powder Systems
International Process Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
MECO Shaft Seals, Div Woodex Bearing Co
Thermo Scientific, Chemical Analysis Div-Material Characterization Business
Union Standard Equipment Co
Urschel Labs

Telstar North America
Terra Universal
Walker Barrier Systems

GLOVES

Ansell Protective Products, Occupational Healthcare Div
Blue Thunder Technologies
Central Research Labs
Cole-Parmer
Custom Powder Systems
Enguard Systems, Div Containment Technologies Group
Federal Equipment Co
GoIndustry DoveBid
Hutchins & Hutchins
Labconco Corp
Qosina
Renco Corp
Ronco
Shoe Inn
Terra Universal
Walker Barrier Systems
Wells Lamont Industrial
WL Gore & Assocs, Gore PharmBIO Products

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ACG North America LLC
C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Fuid Air, Spraying Systems Co
Franklin Miller

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www.ffreund-vector.com
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GEA Process Engineering, GEA Pharma Systems
GlobePharma
GoIndustry DoveBid
Hosokawa Micron Powder Systems
International Process Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
MECO Shaft Seals, Div Woodex Bearing Co
Thermo Scientific, Chemical Analysis Div-Material Characterization Business
Union Standard Equipment Co
Urschel Labs

GRANULATORS, VACUUM DRYERS
AC Compacting LLC
AZO
Charles Ross & Son Co
DJS Enterprises
EquipNet
Federal Equipment Co
GEA Process Engineering, GEA Pharma Systems
Glatt Air Techniques
GoIndustry DoveBid
International Process Plants IPP
Jaygo
Key Intl
LB Bohle LLC
Precept nv
Thermo Scientific, Chemical Analysis Div-Material Characterization Business

GRINDERS
BEE Intl
BioSpec Products
C & C Corp
Charles Ross & Son Co
DJS Enterprises
Federal Equipment Co
FPS Food & Pharma Systems Srl
Franklin Miller
Glen Mills
GoIndustry DoveBid
Hosokawa Micron Powder Systems
Ingersoll-Rand, Compressed Air Solutions
International Process Plants IPP
Jaygo
Jet Pulverizer Co
Kemutec
LabX (Auctions)

MECO Shaft Seals, Div Woodex Bearing Co
Moyno
NETZSCH Premier Technologies LLC, Grinding & Dispersing
PRO Scientific
Quadro Engineering Corp
Retsch
Stedman
SWECO
Union Standard Equipment Co
Urschel Labs
Wysmont Co

HAMMERMILLS
Benz Technology Intl
C & C Corp
DJS Enterprises
Federal Equipment Co
Fitzpatrick Company
Franklin Miller

Glen Mills
GlobePharma
GoIndustry DoveBid
Hosokawa Micron Powder Systems
International Process Plants IPP
Keith Machinery Corp
LB Bohle LLC
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Powersize
Retsch
Stedman
Sturtevant
Union Standard Equipment Co
Urschel Labs
HAND TOOLS, AUTOCLAVABLE
GoIndustry DoveBid
Kebby Industries
Remco Products

HANGERS, PIPELINE
Bergen Industrial Supply Co
GMP Systems
GoIndustry DoveBid
Newman Sanitary Gasket Co
Top Line Process Equipment Co
Waukesha Cherry-Burrell, An SPX Brand, SPX Flow Technology

HEARING PROTECTORS
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid

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Blender Loading



Tablet Press Systems



Capsule and Gel Cap Systems



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- Aero-Mechanical Conveyors,
- Flexible Screw Conveyors

-and support equipment for conveying, batching and weighing bulk dry materials.

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- Our AirTight Performance Guarantee. Westand behind every system we engineer. And we say it in writing.



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Guaranteed Performance

HEAT EXCHANGERS

A&B Process
Systems Corp
Adwest Technologies,
VOC Abatement Div
Alfa Laval
Allegheny Bradford
Corp, Corporate
Anguil Environmental
Systems
Apache Stainless
Equipment Corp
API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Divs
APV, An SPX Brand,
SPX Flow Technology
Armfield Ltd,
Industrial Div
Asahi/America
Benz Technology Intl
Bergen Industrial
Supply Co
Bionomic Industries
Buchiglas-USA Corp
Budzar Industries
Comber USA
Custom Metalcraft
DCI
De Dietrich Process
Systems
Evaporator Dryer
Technologies
Exergy LLC
Exothermics
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GF Piping Systems
GMP Systems
Golndustry DoveBid
International Process
Plants IPP
Jaygo
JLS Intl
Jongia, Div MPE Group
USA LLC
Keith Machinery Corp
Kemutec
LabX (Auctions)
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
MultiTherm LLC
Munters Corp, Air
Treatment
Paul Mueller Co
Pick Heaters
PolyScience
Process Technology
Ruland Engineering &
Consulting GmbH
Spirax Sarco
SPX Flow Technology
The ChemPro Group
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology
Yula Corp

HEAT RECOVERY SYSTEMS

A&B Process
Systems Corp
Adwest Technologies,
VOC Abatement Div
Anguil Environmental
Systems
Bionomic Industries
Budzar Industries
Buffalo Air Handling
Evaporator Dryer
Technologies
Exothermics
GEA Process
Engineering, GEA
Pharma Systems
Girton Mfg Co,
Pharmaceutical Div
Golndustry DoveBid
Mokon
MultiTherm LLC
Munters Corp, Air
Treatment
Ruland Engineering &
Consulting GmbH

Siemens Infrastructure +
Cities, Building
Technologies Div
Spirax Sarco
SPX Flow Technology
Strobic Air Corp, Sub
Met-Pro Corp
The ChemPro Group
TUC LLC

HEAT TRANSFER FLUID

Budzar Industries
DJS Enterprises
Golndustry DoveBid
International Process
Plants IPP
Julabo USA
Mokon
MultiTherm LLC
Paratherm - Heat
TransferFluids

HEATING EQUIPMENT (OTHER THAN OVENS)

A&B Process
Systems Corp
Budzar Industries
Buffalo Air Handling
Custom Heat LLC
Durex Industries
Exothermics
Golndustry DoveBid
JLS Intl
Julabo USA
Mokon
MultiTherm LLC
PolyScience
Process Technology
Siemens Infrastructure +
Cities, Building
Technologies Div
Spirax Sarco
Torrey Pines Scientific
Woodley
Equipment Co Ltd

HEPA FILTER TEST EQUIPMENT

American Plastics
Technologies - Rao
Design Intl
Atmos-Tech Industries
Capmatic Ltd,
Headquarters
Climet Instruments Co
Flow Sciences
Golndustry DoveBid
Isolation Systems
Labconco Corp
Lighthouse Worldwide
Solutions
NUCON Intl

HOISTS

Bergen Industrial
Supply Co
Custom Powder
Systems
David Round
Golndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Ingersoll-Rand,
Compressed Air
Solutions
LB Bohle LLC
METO Corp
MO Industries
National Bulk
Equipment
Process Solutions

HOMOGENIZERS

AC Compacting LLC
APV, An SPX Brand,
SPX Flow Technology
Armfield Ltd, Industrial
Div
Avestin
BEE Intl
Bematek Systems
BioSpec Products
C & C Corp

For vendor contact information, see Company Directory section.

Charles Ross & Son Co

DJS Enterprises
Federal Equipment Co
FrymaKoruma GmbH
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Glen Mills
Golndustry DoveBid
International Process
Plants IPP
Jaygo
Keith Machinery Corp
Key Intl
Kinematica
Krieger
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Marion Mixers
Microfluidics
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
PRO Scientific
Procept nv
Process Tek
Retsch
Ruland Engineering &
Consulting GmbH
Sonic & Materials,
Vibra-Cell
SPX Flow Technology
Union Standard
Equipment Co
Waukesha Cherry-
Burrell, An SPX
Brand, SPX Flow
Technology

HUMIDITY CHAMBERS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
Biosero LLC
CARON Products & Services
Darwin Chambers Co
EGC (Environmental
Growth Chambers)
ESPEC North America
Federal Equipment Co
Golndustry DoveBid
Isolation Systems
Keith Machinery Corp
Labconco Corp
Powers Scientific
Rotronic
Instrument Corp
Terra Universal

HVAC EQUIPMENT

American Plastics
Technologies - Rao
Design Intl
Badger Meter
Buffalo Air Handling
E Instruments Intl
Golndustry DoveBid
HEMCO Corp
Isolation Systems
JS Humidifiers PLC
MultiTherm LLC
Munters Corp, Air
Treatment
Newport Electronics
Palmer Wahl
Temperature Products
Quality Air Control
Siemens Infrastructure +
Cities, Building
Technologies Div
Strobic Air Corp, Sub
Met-Pro Corp
Telstar North America
Westfield Sheet
Metal Works

ICE PACKS

Cold Chain
Technologies
General Lab &
Cleanroom Supply,

dba General Lab
Supply
Golndustry DoveBid
Polar Tech Industries

IN-PROCESS MICROBIOLOGICAL CONTROL DEVICES

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Golndustry DoveBid
Pall Life Sciences,
Biopharmaceuticals

INCUBATORS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
Blue Lion Biotech
CARON Products & Services
Cole-Parmer
Darwin Chambers Co
EGC (Environmental
Growth Chambers)
Eppendorf
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Globe Scientific
Golndustry DoveBid
Mycoscience
NuAire
Powers Scientific
Terra Universal
Torrey Pines Scientific
Union Standard
Equipment Co
Wheaton Industries,
Wheaton Science
Packaging
Woodley
Equipment Co Ltd

INDUSTRIAL COATINGS AND PAINTS

C & C Corp
Golndustry DoveBid
Key Resin Co
Newton Gale
Phygen Coatings

INSPECTION DEVICES

AC Compacting LLC
Ackley Machine Corp
AGR Intl
American Plastics
Technologies - Rao
Design Intl
Arizona Instrument LLC
BellatRx
Bosch Inspection
Technology
Certified Comparator
Products, Quality
Vision Intl
Climet Instruments Co
DIR Technologies
Distek
Efficient Automated
Machine Corp
Fortress Technology
FSI Technologies
Global Vision
Golndustry DoveBid
Hanson Research Corp
I Holland Ltd
ISRA Surface Vision,
Sub ISRA Vision AG
Systems
Kaps-All Packaging
Systems
Label Vision Systems
(LVS)
Lenox Instrument Co
Lock Inspection
Systems
Loma Systems / Lock
Inspection Systems
LT Industries
Mettler-Toledo Hi-
Speed, Product
Inspection Div

Natoli Engineering Co

New England Machinery
Nikka Densok USA
OCS Checkweighers
Optel Vision
Optical Gaging
Products (OGP),
Quality Vision Intl
Palmer Wahl
Temperature Products
Pharmatron
Proditec
Product Identification &
Processing Systems
PTI Packaging
Technologies &
Inspection LLC
Qualicaps
RAM Optical
Instrumentation (RAM)
RW Hartnett Co
Sephia Ltd
Siemens Infrastructure +
Cities, Building
Technologies Div
Systech Intl
TRICOR Systems
Victor Intl Mktg
VIEW Micro-Metrology,
Quality Vision Intl
VISIONx

INSULATED CONTAINERS

AcuTemp Thermal
Systems
Cold Chain
Technologies
CSafe LLC
Edgeco
Golndustry DoveBid
Polar Tech Industries
Pope Scientific

INSULATION

Wessex Power
Technology,
Pharmaceutical
Instrumentation

INTEGRITY TEST INSTRUMENTS

Golndustry DoveBid
Kaps-All Packaging
Systems
Lenox Instrument Co
LT Industries
Nikka Densok USA
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Texture
Technologies Corp

IONIZATION EQUIPMENT

Amstat Industries
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Golndustry DoveBid
Isolation Systems
McBrady Engineering
Meech Static
Eliminators USA
New England
Machinery
Plug-In Storage
Systems / PSSI
R Kraft (RKL)
Terra Universal

IONTOPHORESIS EQUIPMENT

DJS Enterprises
Elitech Biomedical
Systems
Golndustry DoveBid

LAMINAR-FLOW TEST EQUIPMENT

Biosero LLC
Capmatic Ltd,
Headquarters

DJS Enterprises
FPS Food & Pharma
Systems Srl
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Golndustry DoveBid
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Kewaunee
Scientific Corp
Labconco Corp
LM Air Technology,
Cleanroom & Lab
Equipment
Mycoscience
R Kraft (RKL)
Terra Universal

LEAFLET-FOLDING EQUIPMENT

DJS Enterprises
G&K-Vijuk Intl
Golndustry DoveBid

LIFTERS, MOVABLE

DJS Enterprises
EHS Solutions LLC
EquipNet
Golndustry DoveBid
Isolation Systems
LB Bohle LLC
Liftomatic Material
Handling
METO Corp
MO Industries
National Bulk Equipment
Process Solutions
R on I

LIFTERS, STATIONARY

DJS Enterprises
Driam USA
EHS Solutions LLC
EquipNet
Golndustry DoveBid
Isolation Systems
LB Bohle LLC
Liftomatic Material
Handling
METO Corp
MO Industries
National Bulk
Equipment
Process Solutions
R on I

LIGHTING, PLASTIC-COATED

Golndustry DoveBid
Isolation Systems

LUBRICANTS FOR TABLET PRESSES

Advance Engineering &
Mfg Co

Fette Compacting America

General Lab &
Cleanroom Supply,
dba General Lab
Supply
General
Magnaplate Corp
Golndustry DoveBid
I Holland Ltd
International
Products Corp
Natoli Engineering Co

LYOPHILIZERS (FREEZE DRYERS)

BioPro Intl
Blue Lion Biotech
Cole-Parmer
DJS Enterprises
Federal Equipment Co
Golndustry DoveBid
International Process
Plants IPP
Keith Machinery Corp
Labconco Corp

McCrone
Microscopes &
Accessories
Millrock Technology
Optima Pharma, Optima
Machinery Corp
SP Scientific -
HULL/VIRTIS/FTS
Telstar North America
Union Standard
Equipment Co

MANIFOLDS

AdvantaPure
Alfa Laval
Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
Bergen Industrial
Supply Co

.....
**Fluid Air, Spraying
Systems Co**

630-665-5001
fax 630-665-5981
fluidairinfo@spray.com
www.fluidairinc.com

See ad on page 61
.....

GEA Tuchenhausen
North America
GolIndustry DoveBid
Lighthouse Worldwide
Solutions
MKS Instruments
Parker domnick hunter,
Process Filtration
Rubber Fab
Technologies Group
Saint-Gobain
Performance Plastics
SaniSure
Service Industries
SP Scientific - HULL/
VIRTIS/FTS
SPX Flow Technology
Swagelok Co
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology
WL Gore & Assocs,
Gore PharmBIO
Products

**MANUFACTURING
EXECUTION
SYSTEMS (MES)
(SEE ALSO
INFORMATION
TECHNOLOGIES
SECTION)**

GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid

**MANUFACTURING
RESOURCE/
MATERIAL
REQUIREMENTS
PLANNING (MRP) (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**

GolIndustry DoveBid

MECHANICAL SEALS

Ashcroft
Bergen Industrial
Supply Co
Buchiglas-USA Corp
GolIndustry DoveBid
MECO Shaft Seals, Div
Woodex Bearing Co
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

MEDICAL TAPES

Adhesives Research
ATL (Ad Tape & Label)
DelStar Technologies
GolIndustry DoveBid
LGIntl

**MEDICAL WASTE
DISPOSAL SUPPLIES**

General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Hutchins & Hutchins
Security Engineered
Machinery

**METERED DOSE
INHALERS**

Aspect Automation
GolIndustry DoveBid

**METERING,
PUMPS AND
PUMP SYSTEMS**

Badger Meter
Bergen Industrial
Supply Co
BioPro Intl
Bran+Luebbe,
An SPX Brand,
SPX Flow Technology
Cole-Parmer
DJS Enterprises
Federal Equipment Co
Filamatic, National
Instrument LLC
Fluid Metering
GMP Systems
GolIndustry DoveBid
JLS Intl
Kaps-All Packaging
Systems
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Omega Engineering
Parker domnick hunter,
Process Filtration
Plast-O-Matic Valves
Siemens Industry,
Automation & Drive
Technologies
Spirax Sarco
SPX Flow Technology
Unibloc-Pump,
Flowtech Div
Watson-Marlow
Pumps Group
Waukesha Cherry-
Burrell, An SPX
Brand, SPX Flow
Technology

**MICROBIOLOGICAL
MANUFACTURING**

Eppendorf
GolIndustry DoveBid

**MICROCARRIERS,
CELL CULTURE**

Eppendorf
GolIndustry DoveBid

**MICROEMULSIFYING
EQUIPMENT**

BEE Intl
Bematek Systems
Charles Ross & Son Co
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GolIndustry DoveBid
Microfluidics
Process Tek
Urschel Labs

MICROSPHERES

AC Compacting LLC
Air Techniques Intl (ATI)
Bangs Labs
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
GolIndustry DoveBid

**MICROSPHERES,
COATED**

AC Compacting LLC

Bangs Labs
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
GolIndustry DoveBid

**MICROWAVE OVEN,
CHEMICAL SYNTHESIS**

Blue Lion Biotech
GolIndustry DoveBid
Union Standard
Equipment Co

**MILLING AND
GRINDING,
ATTRITION MILLS**

AC Compacting LLC
Benz Technology Intl
C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
FPS Food & Pharma
Systems Srl
Franklin Miller

Glen Mills
GlobePharma
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
LabX (Auctions)
Myers Engineering
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Powdersize
Quadro Engineering Corp
Sigma Equipment Corp
Sturtevant
The Young Industries
Union Standard
Equipment Co
Urschel Labs
Wyssmont Co

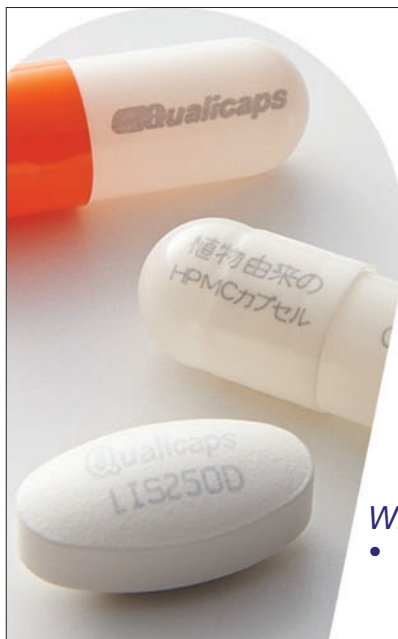
**MILLING
AND GRINDING,
COARSE CRUSHERS**

C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Fitzpatrick Company
Franklin Miller
Glen Mills
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Keith Machinery Corp
Kemutec
LabX (Auctions)
LB Bohle LLC
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Quadro
Engineering Corp
Retsch

Stedman
Sturtevant
The Young Industries
Union Standard
Equipment Co
Urschel Labs
Wyssmont Co

**MILLING
AND GRINDING,
COLLOID MILLS**

Admix
BEE Intl
Bematek Systems
C & C Corp
Charles Ross & Son Co
DJS Enterprises
EquipNet
Federal Equipment Co
Franklin Miller
FrymaKoruma GmbH
Glen Mills
GolIndustry DoveBid
Hosokawa Micron
Powder Systems



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New Imprinting
Equipment has
Laser Focus**

**Introducing the LIS-250
UV Laser Imprinting System
for Tablets, Softgels and
Capsules**

Why Laser?

- Defects caused by ink (double print, ink spots, missing print, etc.) are eliminated
- CAD design allows for flexible imprinting options
- Eliminates the need for print rolls, ink and extra storage, reducing the run cost of imprinting
- No cleaning necessary due to the lack of ink
- Larger printable surface than ink printing
- Potential for the prevention of counterfeiting
- Non-thermal effects of UV laser allow marking without resulting in thermal denaturation on tablets

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- Visual Inspection
- Weight Inspection
- Imprinting

1-800-CAPSULE

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THE KAITEKI COMPANY Mitsubishi Chemical Holdings Group

International Process
Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
LabX (Auctions)
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Quadro Engineering Corp
Retsch
Sharpe Mixers
Sigma Equipment Corp
Union Standard
Equipment Co
Urschel Labs
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

MILLING AND GRINDING, FINE GRINDING

AC Compacting LLC
Alstom Power, Raymond
Operations
American Plastics
Technologies - Rao
Design Intl
BEE Intl
Bematek Systems
C & C Corp
DJS Enterprises
EquipNet
Federal Equipment Co
Fitzpatrick Company
**Fluid Air, Spraying
Systems Co**
630-665-5001
fax 630-665-5981
fluidairinfo@spray.com
www.fluidairinc.com

See ad on page 61

FPS Food & Pharma
Systems Srl
Franklin Miller
FrymaKoruma GmbH
Glen Mills
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
Kinematica
LabX (Auctions)
LB Bohle LLC
McCrone
Microscopes &
Accessories
Myers Engineering
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group

Powdersize

215-536-5605
fax 215-536-6630
thigley@powdersize.com
www.powdersize.com

See ad on page 156

Quadro
Engineering Corp
Retsch
Sigma Equipment Corp
Stedman
Sturtevant
SWECO
Union Standard
Equipment Co
Urschel Labs
Waukesha Cherry-
Burrell, An SPX
Brand, SPX Flow
Technology

MILLING AND GRINDING, GRANULATORS

AC Compacting LLC
AZO
C & C Corp
CMS Technologies
DJS Enterprises
EquipNet
Federal Equipment Co
Fitzpatrick Company
Franklin Miller
Glen Mills
GlobePharma
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Keith Machinery Corp
Kemutec
LB Bohle LLC
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Retsch
Techceuticals
Union Standard
Equipment Co
Urschel Labs
Wyssmont Co

MILLING AND GRINDING, INTERMEDIATE PULVERIZERS

AC Compacting LLC
Alstom Power, Raymond
Operations
Cadmach Machinery Co
Pvt Ltd
DJS Enterprises
EquipNet
Federal Equipment Co
Fitzpatrick Company
FPS Food & Pharma
Systems Srl
Franklin Miller
Glen Mills
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Quadro
Engineering Corp
Stedman
Sturtevant
Union Standard
Equipment Co
Urschel Labs
Wyssmont Co

MILLING AND GRINDING, OINTMENT MILLS

Bematek Systems
Charles Ross & Son Co
DJS Enterprises
EquipNet
EXAKT Technologies
Federal Equipment Co
Glen Mills
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Quadro
Engineering Corp

For vendor contact information, see Company Directory section.

Sigma Equipment Corp
Union Standard
Equipment Co
Urschel Labs

MILLS, CELL RUPTURE

Avestin
BEE Intl
Bematek Systems
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GoIndustry DoveBid
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Quadro
Engineering Corp
Retsch
Urschel Labs

MIXERS, BLENDER/HOMOGENIZER

A&M Process
Equipment Ltd
AC Compacting LLC
Admix
AIM Blending
Technologies
Apache Stainless
Equipment Corp
AZO
BEE Intl
Bematek Systems
Bioengineering
BioPro Intl
BioSpec Products
Brawn Mixer
C & C Corp
Charles Ross & Son Co
Chemineer
CroPharm
Custom Powder
Systems
DCI
DJS Enterprises
EquipNet
Federal Equipment Co
216-271-3500
fax 216-271-5210
pharmaceutical@fedequip.com
www.fedequip.com

See ad on page 39

Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GlobePharma
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Jongia, Div MPE Group
USA LLC
Keith Machinery Corp
Kemutec
LabX (Auctions)
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Mixers
MECO Shaft Seals, Div
Woodex Bearing Co
**Meissner Filtration
Products**
MO Industries
Myers Engineering
Natoli Engineering Co
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Pope Scientific
PRO Scientific
Procept nv

Quadro
Engineering Corp
Retsch
Ruland Engineering &
Consulting GmbH
Scott Turbon Mixer
Sharpe Mixers
Sigma Equipment Corp
Sonics & Materials,
Vibra-Cell
Union Standard
Equipment Co
Waukesha Cherry-
Burrell, An SPX
Brand, SPX Flow
Technology

MIXERS, COOKER

A&M Process
Equipment Ltd
AIM Blending
Technologies
Apache Stainless
Equipment Corp
Charles Ross & Son Co
Chemineer
Comber USA
DCI
DJS Enterprises
EquipNet
Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
International Process
Plants IPP
JLS Intl
Jongia, Div MPE Group
USA LLC
Keith Machinery Corp
Lee Industries,
Process Systems &
Equipment/Fluid
Transfer Divs
MECO Shaft Seals, Div
Woodex Bearing Co
Myers Engineering
Pick Heaters
Pope Scientific
Sharpe Mixers
SPX Flow Technology
Union Standard
Equipment Co
Walker Stainless
Equipment Co

MIXERS, DISPOSABLE

Chemineer
DCI
DJS Enterprises
EquipNet
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
JLS Intl
Jongia, Div MPE Group
USA LLC

Meissner Filtration Products

Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
PRO Scientific
Xcellerex

MIXERS, HIGH-SHEAR

AC Compacting LLC
Admix
Avestin
AZO
Bematek Systems
BioSpec Products
Bosch Packaging
Technology, Pharma
Brawn Mixer
Briggs of Burton
C & C Corp

Charles Ross & Son Co

631-234-0500
fax 631-234-0691
mail@mixers.com
www.mixers.com

See ad on page 43

Chemineer
CMS Technologies
Comber USA
Custom Metalcraft
DCI
DJS Enterprises
Federal Equipment Co
216-271-3500
fax 216-271-5210
pharmaceutical@fedequip.com
www.fedequip.com

See ad on page 39

Fluid Air, Spraying Systems Co

Freund-Vector Corp
319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.freund-vector.com

See ad on page 49

Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
International Process
Plants IPP
Jaygo
JLS Intl
Jongia, Div MPE Group
USA LLC
Kemutec
Key Intl
LabX (Auctions)
LB Bohle LLC
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Mixers
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
PRO Scientific
Procept nv
Quadro
Engineering Corp
Scott Turbon Mixer
Sharpe Mixers
SPX Flow Technology
Town & Country Plastics
Union Scientific Corp
Union Standard
Equipment Co
Vac-U-Max
Walker Stainless
Equipment Co
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology

Federal Equipment Co

Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GlobePharma
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Keith Machinery Corp
Kemutec
Key Intl
Lee Industries, Process
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Magna-Safe Intl
Marion Mixers
**Meissner Filtration
Products**
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NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Pope Scientific
PRO Scientific
Procept nv
Quadro
Engineering Corp
Scott Turbon Mixer
Sharpe Mixers
SPX Flow Technology
Town & Country Plastics
Union Scientific Corp
Union Standard
Equipment Co
Vac-U-Max
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Equipment Co
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Apache Stainless
Equipment Corp
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Bematek Systems
BioPro Intl
Brawn Mixer
Briggs of Burton
C & C Corp
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Comber USA
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De Dietrich Process
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DJS Enterprises
Eppendorf
EquipNet
Federal Equipment Co
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Pharma Systems
Glen Mills
GMP Systems
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Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
JLS Intl
Keith Machinery Corp
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Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
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Lightnin, An SPX Brand,
SPX Flow Technology

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Magna-Safe Intl
Marion Mixers
MECO Shaft Seals, Div
Woodex Bearing Co

Meissner Filtration Products
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NETZSCH Premier
Technologies LLC,
Grinding & Dispersing

PDR-Chemical LLC
Pope Scientific
Procept nv
Quadro
Engineering Corp
Rice Lake Weighing
Systems
Sartorius Stedim North
America
Scott Turbon Mixer
Sharpe Mixers
Sonics & Materials,
Vibra-Cell
SPX Flow Technology
Town & Country Plastics
Union Scientific Corp
Union Standard
Equipment Co
Walker Stainless
Equipment Co
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology
Xcellerex

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Bergen Industrial
Supply Co
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DJS Enterprises
EquipNet

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Magna-Safe Intl
SPX Flow Technology

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AZO
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Cadmach Machinery Co
Pvt Ltd

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Chemineer

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Fristam Pumps USA
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Engineering, GEA
Pharma Systems
GolIndustry DoveBid
International Process
Plants IPP

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JLS Intl
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
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Lightnin, An SPX Brand,
SPX Flow Technology
Marion Mixers

Meissner Filtration Products
Nicos Group
Pope Scientific
Sharpe Mixers
Sigma Equipment Corp
The Young Industries
Union Standard
Equipment Co

MIXERS, POWDER
3V COGEIM
A&M Process
Equipment Ltd

Admix
AIM Blending
Technologies
Apache Stainless
Equipment Corp
AZO
Benz Technology Intl
Briggs of Burton
C & C Corp
Cadmach Machinery Co
Pvt Ltd

Charles Ross & Son Co
CroPharm
Custom Powder
Systems

DCI
De Dietrich Process
Systems
Diamondback
Technology
DJS Enterprises
EquipNet

Federal Equipment Co
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GEA Process
Engineering, GEA
Pharma Systems
Glen Mills

GlobePharma
GolIndustry DoveBid
Hosokawa Micron
Powder Systems
International Process
Plants IPP

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Keith Machinery Corp
Kemutec
Key Intl
LCI Corp

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Equipment/Fluid
Transfer Divs
Marion Mixers
MECO Shaft Seals, Div
Woodex Bearing Co

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MO Industries
National Bulk
Equipment

Natoli Engineering Co
NETZSCH Premier
Technologies LLC,
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Nicos Group

Process Solutions
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Engineering Corp
Sigma Equipment Corp
The Young Industries
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Union Scientific Corp
Union Standard
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Xcellerex

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Alfa Laval
AZO
BEE Intl

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Chemineer
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International Process
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JLS Intl
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs

Lightnin, An SPX Brand,
SPX Flow Technology
Marion Mixers
Sharpe Mixers

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Charles Ross & Son Co
631-234-0500
fax 631-234-0691
mail@mixers.com
www.mixers.com

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International Process
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USA LLC

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Kemutec
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Equipment Co

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AIM Blending
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Equipment Corp
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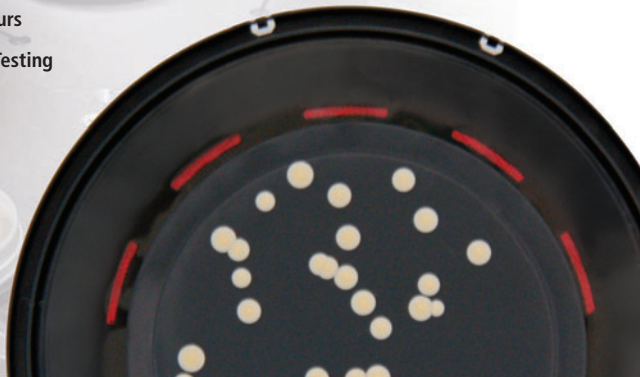
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Powder Systems
International Process
Plants IPP
LabX (Auctions)
PRO Scientific
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Engineering, GEA
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Supply
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Technologies LLC,
Grinding & Dispersing
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Spirax Sarco
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WA Hammond Drierite
Co Ltd
WL Gore & Assocs,
Gore PharmBIO
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Isolation Systems
Terra Universal

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BETE Fog Nozzle
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Headquarters
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DJS Enterprises
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Technologies
Fluid Air, Spraying Systems Co
GolIndustry DoveBid
Kaps-All Packaging
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Strahman Valves

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Swagelok Co
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SPX Flow Technology

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Technology Co
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ESPEC North America
Exothermics
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
Keith Machinery Corp
Nicos Group
Optima Pharma, Optima
Machinaey Corp
Pink GmbH
Thermosysteme
Telstar North America
Terra Universal
The Grieve Corp
Union Standard
Equipment Co
Werner Mathis USA,
North America
Wyssmont Co

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EquipNet
ESPEC North America
Exothermics
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GolIndustry DoveBid
Keith Machinery Corp
Liftomatic Material
Handling
Nicos Group
Pink GmbH
Thermosysteme
Terra Universal
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OVENS, REVOLVING

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GolIndustry DoveBid
The Grieve Corp
Wyssmont Co

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Design Intl
Bosch Packaging
Technology, Pharma
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Cleanroom Supply,
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Nicos Group
Optima Pharma, Optima
Machinaey Corp
Pink GmbH
Thermosysteme
Process Tek
Reimers Electra Steam
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ESPEC North America
Federal Equipment Co
FPS Food & Pharma
Systems Srl
General Lab &
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Pink GmbH
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OXYGEN-ENRICHED AIR GENERATION

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International Process
Plants IPP
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Nicos Group
Procept nv
Techceuticals
Union Standard
Equipment Co

PANS, POLISHING

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Driam USA
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Keith Machinery Corp
Nicos Group
Union Standard
Equipment Co

PANS, VACUUM

EquipNet
Evaporator Dryer
Technologies
Federal Equipment Co
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Plants IPP
Jaygo
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Lee Industries,
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Transfer Divs
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Equipment Co

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Apache Stainless
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Airtech, Basco,
Schmidt-Bretten Divs
DCI
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SPX Flow Technology

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GolIndustry DoveBid

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Keith Machinery Corp
LCI Corp
Nicos Group
Procept nv

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Eppendorf
GolIndustry DoveBid
Masy Systems
NUCON Intl
Optek-Danulat
Wyatt Technology

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GolIndustry DoveBid

PIPE, FLUORO-POLYMER-LINED

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Supply Co
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Systems
EquipNet
GolIndustry DoveBid

PIPE, OTHER

AdvantaPure
EquipNet
GolIndustry DoveBid
JLS Intl
RathGibson
Seal Master Corp

PIPE, PP

AdvantaPure
Asahi/America
EquipNet
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GolIndustry DoveBid
Town & Country
Plastics

PIPE, PVC

AdvantaPure
Asahi/America
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PIPE, PVDF

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GolIndustry DoveBid
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Technologies
Freeman Technology
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Wessex Power
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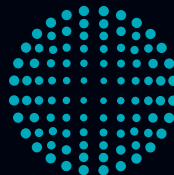
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 North America
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 Lighthouse Worldwide
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 GF Piping Systems

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 Lighthouse Worldwide
 Solutions
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 Newport Electronics
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 Temperature Products
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 American Alloy
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 American Plastics
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 Apache Stainless
 Equipment Corp
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 Areo Power Unitized
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 AZO
 Benz Technology Intl
 Bergen Industrial
 Supply Co
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 Black Forest Container
 Systems LLC
 Briggs of Burton
 Buchiglas-USA Corp
Charles Ross & Son Co
 DCI
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Eagle Stainless Container
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 Goyen Valve LLC,
 Pentair Environmental
 Systems
 International Process
 Plants IPP
 Isolation Systems
 Jaygo
 JLS Intl
 Jongia, Div MPE Group
 USA LLC
 LabX (Auctions)
 Lee Industries, Process
 Systems & Equipment/
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 MECO Shaft Seals, Div
 Woodex Bearing Co
 Niles Steel Tank
 Paul Mueller Co
 Pope Scientific
 Process Tek
 Sani-Matic
 Stainless Fabrication
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 Union Standard
 Equipment Co
 Walker Stainless
 Equipment Co
 Westfield Sheet
 Metal Works

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 Isolation Systems
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 Masy Systems
 Mettler Toledo,
 Thornton
 MKS Instruments
 Newport Electronics
 Omega Engineering
 Palmer Wahl
 Temperature Products
 RJM Sales
 Rockwell Automation
 Siemens Industry,
 Automation & Drive
 Technologies
 Siemens Infrastructure +
 Cities, Building
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 BinMaster, Div Garner
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 Bran+Luebbe, An SPX
 Brand, SPX Flow
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 Buchiglas-USA Corp
 Burkert Fluid Control
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 Ellab
 Eppendorf
 ETC, Sterilization
 Systems
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 info@gemu.com
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 Hidden Analytical
 Hoffer Flow Controls
 Isolation Systems
 JH Technology
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 Krohne
 Lee Industries, Process
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 Fluid Transfer Divs
 LT Industries
 Metrohm USA
 Mettler Toledo,
 Thornton
 MKS Instruments
 Neutronics, Gas
 Analysis Solutions
 Newport Electronics
 Niagara Meters
 Norman N Axelrod
 Assocs, Optical
 Sensing & Control
 Systems
 Development Div
 OCS Checkweighers
 Omega Engineering
 Optek-Danulat
 Process Tek
 Rice Lake Weighing
 Systems
 RJM Sales
 Rockwell Automation
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 Sensor Electronics Corp
 Siemens Industry,
 Automation & Drive
 Technologies
 Sierra Instruments
 Steriflow Valve,
 Jordan Valve
 SVF Flow Controls,
 CleanFlow Div
 Swagelok Co
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 Process Mgmt,
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 AZO
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 GEA Process Engineering,
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 LT Industries
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 Norman N Axelrod Assocs,
 Optical Sensing &
 Control Systems
 Development Div
 Optek-Danulat
 Rockwell Automation
 Ruland Engineering &
 Consulting GmbH
 SPX Flow Technology
 Xcellerex

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 Sciences
 GEA Process
 Engineering, GEA
 Pharma Systems
 GolIndustry DoveBid
 JAF Consulting,
 Validation &
 Regulatory Services
 Consulting
 Masy Systems
Natoli Engineering Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Pall Corp, Life
 Sciences Group
 Pall Life Sciences,
 Biopharmaceuticals
 pixon engineering
 Rockwell Automation
 Tunnell Consulting

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 CRB Consulting
 Engineers
 Drying Technology
 El Assocs
 Eppendorf
Fette Compacting America
Freund-Vector Corp
 GEA Process
 Engineering, GEA
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 Novasep
 Pall Corp, Life
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 Pall Life Sciences,
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 Rockwell Automation
 Ruland Engineering &
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 Sani-Matic
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 Measurement
 AZO
 Beamex

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 GEA Pharma Systems
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 Cosense
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 FSI Technologies
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 Design Intl
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 Engineering, GEA
 Pharma Systems
 GolIndustry DoveBid
 JAF Consulting,
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 Consulting
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 Technologies LLC,
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 Pall Corp, Life
 Sciences Group
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 Pharma Systems
 GEA Tukenhagen
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 Isolation Systems
 Mil-Ram Technology
 Newport Electronics
 Omega Engineering
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 Parker domnick hunter, Process Filtration
 Rice Lake Weighing Systems
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 Met - Pro Global Pump Solutions - Fybroc
 Met-Pro Global Pump Solutions - Sethco
 Omega Engineering
 Richter Chemie-Technik GmbH
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 Unibloc-Pump, Flowtech Div
 Union Standard Equipment Co
 Waukesha Cherry-Burrell, An SPX Brand,
 SPX Flow Technology

PUMPS, DIAPHRAGM

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 DJS Enterprises
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 Fluid Metering
 General Lab & Cleanroom Supply, dba General Lab Supply
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 Ingersoll-Rand, Compressed Air Solutions
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 Waters Corp, Waters Div
 Watson-Marlow Pumps Group
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 JLS Intl
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 Met - Pro Global Pump Solutions - Fybroc
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 Keith Machinery Corp
 Milton Roy Co
 Moyno
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 Omega Engineering
 Parker domnick hunter, Process Filtration
 Plast-O-Matic Valves
 Process Tek
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 Union Standard Equipment Co
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 Watson-Marlow Pumps Group
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Blue Lion Biotech
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Federal Equipment Co
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Instrument LLC
Fluid Metering
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Milton Roy Co
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General Lab Supply
Glen Mills
GoIndustry DoveBid
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Union Standard
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Pumps Group
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Wheaton Science
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Darmstadt Germany
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General Lab &
Cleanroom Supply,
dba General Lab
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GMP Systems
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GEA Process
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SPX Flow Technology

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Sub ISRA Vision AG
Label Vision Systems
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Norman N Axelrod
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Sensing & Control
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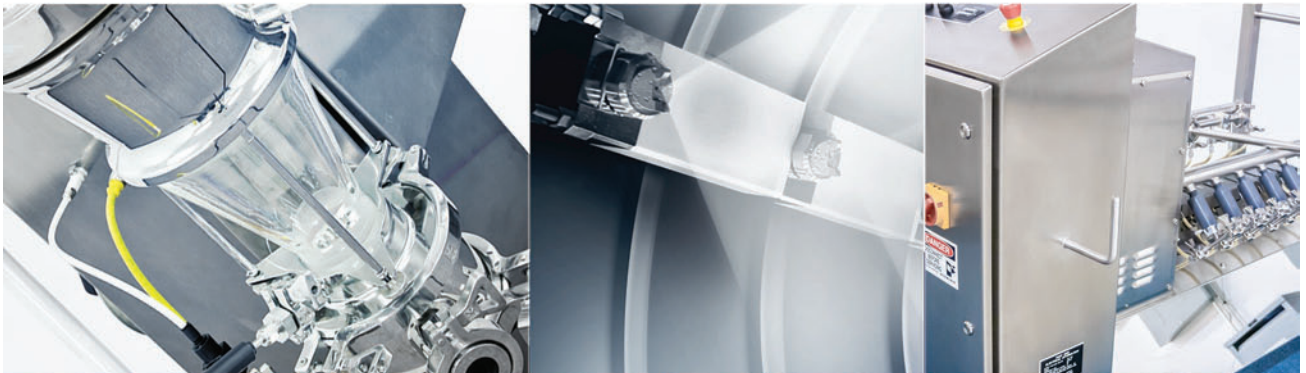
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SEPARATORS, SOLIDS-LIQUID

3V COGEM
Alfa Laval
BHS-Filtration
Celeros
De Dietrich Process
Systems
DJS Enterprises
Federal Equipment Co
GoIndustry DoveBid
International Process
Plants IPP
Keith Machinery Corp
Kemutec
Magnetics Div, Global
Equipment Mktg
MM Industries,
Vorti-Siv Div
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Pope Scientific
Robatel
Russell Finex
SWECO
The Spencer Turbine Co
Thermal Engineering of
Arizona (TEA)

SFC SYSTEMS

Agilent Technologies
GoIndustry DoveBid
Novasep
PDR-Chemical LLC
Waters Corp, Waters Div

SFE SYSTEMS

GoIndustry DoveBid
Waters Corp, Waters Div

SHAFT SEALS

GoIndustry DoveBid
Seal Master Corp

SHREDDERS

Federal Equipment Co
Franklin Miller
Glen Mills
GoIndustry DoveBid
HECHT Technology
GmbH, Bulk Material
Handling
Keith Machinery Corp
Magnetics Div, Global
Equipment Mktg
Quadro
Engineering Corp
Security Engineered
Machinery
Stedman
Urschel Labs

SIEVES

AZO
Cleveland Vibrator/HK
Technologies
Cole-Parmer
DJS Enterprises
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Glen Mills
GoIndustry DoveBid
Great Western Mfg Co
Hosokawa Micron
Powder Systems
Keith Machinery Corp
Kemutec
LB Bohle LLC
MM Industries, Vorti-
Siv Div
MO Industries
Natoli Engineering Co
Powdersize
Retsch

Rubber Fab
Technologies Group
Russell Finex
SWECO
WS Tyler

SIFTERS

AZO
Cleveland Vibrator/HK
Technologies
DJS Enterprises
Federal Equipment Co
Glen Mills
GlobePharma
GoIndustry DoveBid
Great Western Mfg Co
Keith Machinery Corp
Kemutec
LB Bohle LLC
MM Industries, Vorti-
Siv Div
MO Industries
Natoli Engineering Co
Quadro Engineering Corp
Retsch
Rubber Fab
Technologies Group
Russell Finex
SWECO
Union Standard
Equipment Co

SIGHT GAUGES

ARCHON Industries
Assmann Corp of
America
Bergen Industrial
Supply Co
Custom Metalcraft
Geci Tech LLC
GMP Systems
GoIndustry DoveBid
Plast-O-Matic Valves
RJM Sales
Rubber Fab
Technologies Group
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div

SIGHT GLASSES

ARCHON Industries
Bergen Industrial
Supply Co
Custom Metalcraft
DCI
De Dietrich Process
Systems
Evaporator Dryer
Technologies
GEA Tuchenhausen
North America
GMP Systems
GoIndustry DoveBid
MO Industries
Pentair Haffmans
Plast-O-Matic Valves
Richter Chemie-
Technik GmbH
RJM Sales
Rubber Fab
Technologies Group
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Vision USA, a
Dentrex Co

SILOS, BULK STORAGE

A&B Process
Systems Corp
Apache Stainless
Equipment Corp
AZO
BinMaster, Div Garner
Industries
Custom Metalcraft
DCI
Diamondback Technology
EquipNet
Federal Equipment Co
GMP Systems
GoIndustry DoveBid

For vendor contact information, see Company Directory section.

HECHT Technologie
GmbH, Bulk Material
Handling
Jenike & Johanson
Kistler Morse
MO Industries
Snyder Industries, Dry
Handling & IBC Div
Walker Stainless
Equipment Co

SINKS, STAINLESS

Edgeco
GMP Systems
GoIndustry DoveBid
Isolation Systems
Kewaunee Scientific Corp
Terra Universal

SIZE REDUCTION MACHINES

AC Compacting LLC
AZO
BEE Intl
Bematek Systems
C & C Corp
DJS Enterprises
Federal Equipment Co
Fitzpatrick Company
**Fluid Air, Spraying
Systems Co**
FPS Food & Pharma
Systems Srl
Franklin Miller
Glen Mills
GlobePharma
GoIndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Hosokawa Micron
Powder Systems
International Process
Plants IPP
Jaygo
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Microfluidics
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Powdersize
Quadro Engineering Corp
Retsch
Security Engineered
Machinery
Stedman
Sturtevant
SWECO
Urschel Labs
Wyssmont Co

SOFT-GEL MANUFACTURING SUPPLIES

Advance Engineering &
Mfg Co
C & C Corp
CMS Technologies
DJS Enterprises
GoIndustry DoveBid
Molded Fiber Glass
Tray Co
Union Standard
Equipment Co

SOLVENT RECOVERY SYSTEMS, ACTIVATED-CARBON ADSORPTION

Adwest Technologies,
VOC Abatement Div
EquipNet
GoIndustry DoveBid
International Process
Plants IPP
Met-Pro Environmental
Air Solutions -
Systems,
Met-Pro Corp
Novasep
NUCON Intl

SOLVENT RECOVERY SYSTEMS, DISTILLATION

BUCHI Corp
De Dietrich
Process Systems
EquipNet
Federal Equipment Co
GoIndustry DoveBid
International Process
Plants IPP
JLS Intl
Labconco Corp
NexGen Enviro Systems
Novasep
Pope Scientific
The ChemPro Group

SOLVENT RECOVERY SYSTEMS, MEMBRANE

EquipNet
GEA Process Engineering,
Pharma Systems
GoIndustry DoveBid
International Process
Plants IPP
JLS Intl
Novasep
The ChemPro Group

SOP DEVELOPMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

American Plastics
Technologies - Rao
Design Intl
**Fette Compacting
America**
GMP Labeling
GoIndustry DoveBid
JAF Consulting,
Validation &
Regulatory Services
Consulting
Rockwell Automation

SOP ENFORCEMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

American Plastics
Technologies - Rao
Design Intl
GoIndustry DoveBid
JAF Consulting,
Validation &
Regulatory Services
Consulting

SORPTION MONITORS

CI Electronics Ltd
CI Precision
GoIndustry DoveBid
Hanson Research Corp

SPARGERS

GoIndustry DoveBid
Mott Corp
Pick Heaters
Xcellerex

SPHERONIZATION MACHINERY

AC Compacting LLC
Federal Equipment Co
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
Procept nv

SPRAY DRYING EQUIPMENT

AC Compacting LLC
BUCHI Corp
DJS Enterprises
Evaporator Dryer
Technologies
Exothermics
Procept nv

SPRAY NOZZLES

ARCHON Industries
Bergen Industrial
Supply Co
BioPro Intl
BUCHI Corp
Custom Metalcraft
DJS Enterprises
EquipNet
Evaporator Dryer
Technologies
Federal Equipment Co
.....
**Fluid Air, Spraying
Systems Co**

630-665-5001
fax 630-665-5981
fluidairinfo@spray.com
www.fluidairinc.com
See ad on page 61
.....

GEA Process
Engineering, GEA
Pharma Systems
GEA Tuchenhausen
North America
GoIndustry DoveBid
Isolation Systems
Procept nv
Rubber Fab
Technologies Group
Sani-Matic
Strahman Valves

STATISTICAL ANALYSIS (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

American Plastics
Technologies - Rao
Design Intl
Ellab
GoIndustry DoveBid
JAF Consulting,
Validation &
Regulatory Services
Consulting

STERILANTS, LIQUID

Decon Labs
GoIndustry DoveBid
Veltek Associates Inc

STERILE AIR FILTERS

Cole-Parmer
GoIndustry DoveBid
Isolation Systems
**Meissner Filtration
Products**
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter,
Process Filtration
Pentair Haffmans

STERILE STORAGE UNITS

Apache Stainless
Equipment Corp
Enguard Systems,
Div Containment
Technologies Group
GoIndustry DoveBid
Hurst Corp
Isolation Systems
Process Tek
Ruland Engineering &
Consulting GmbH

STERILITY ASSURANCE PACKAGING AND SUPPLIES

GoIndustry DoveBid
Process Tek
**Rapid Micro
Biosystems**
Telstar North America

STERILITY INDICATORS

BIOQUELL, Life
Sciences

Ellab
GoIndustry DoveBid
Mesa Labs
Process Tek

STERILIZATION INDICATOR LABELS

GoIndustry DoveBid
ITW Texwipe
LGIntl
Mesa Labs
Process Tek
Qosina

STERILIZER CONTROLS, AUTOCLAVE

American Plastics
Technologies - Rao
Design Intl
ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
DJS Enterprises
ETC, Sterilization Systems
GoIndustry DoveBid
JLS Intl
Nicos Group
Primus Sterilizer Co LLC
Process Tek
TMI USA

STERILIZERS, AUTOCLAVE

American Plastics
Technologies - Rao
Design Intl
ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
BioPro Intl
Blue Lion Biotech
Bosch Packaging
Technology, Pharma
Carltext
DJS Enterprises
Eppendorf
EquipNet
ETC, Sterilization
Systems

Federal Equipment Co

General Lab &
Cleanroom Supply,
dba General Lab
Supply
GoIndustry DoveBid
Keith Machinery Corp
Kinematica
McGill AirPressure LLC
Mesa Labs
Nicos Group
Primus Sterilizer Co LLC
Process Tek
Telstar North America
Tuttnauer USA Co Ltd,
Lab & Scientific Div
Victor Intl Mktg

STERILIZERS, CO₂

Polar Tech Industries

STERILIZERS, DRY HEAT, ELECTRIC

Bausch + Stroebel
Machine Co
Bosch Packaging
Technology, Pharma
Central Research Labs
EquipNet
Federal Equipment Co
GoIndustry DoveBid
Intotech Bioscience LLC
Mesa Labs
Nicos Group
Optima Pharma, Optima
Machinaey Corp
Pink GmbH
Thermosysteme
Telstar North America
The Grieve Corp
Victor Intl Mktg

STERILIZERS, DRY HEAT, GAS

Bosch Packaging
Technology, Pharma

EquipNet
ETC, Sterilization
Systems
GolIndustry DoveBid
Mesa Labs
Nicos Group
Telstar North America

**STERILIZERS, GAS
(CHLORINE OXIDE)**
EquipNet
ETC, Sterilization Systems
GolIndustry DoveBid
Mesa Labs

**STERILIZERS, GAS
(ETO)**
American Plastics
Technologies - Rao
Design Intl

EquipNet
ETC, Sterilization
Systems
GolIndustry DoveBid
Mesa Labs
Nicos Group
Process Tek
Sensor Electronics Corp
Telstar North America

**STERILIZERS,
IONIZING
RADIATION**
EquipNet
GolIndustry DoveBid
Optima Pharma, Optima
Machinaey Corp
Process Tek

**STERILIZERS,
MEMBRANE
FILTRATION**
3M Purification
American Plastics
Technologies - Rao
Design Intl

EquipNet
GolIndustry DoveBid
**Meissner Filtration
Products**
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek

**STERILIZERS,
OZONE GENERATION**
EquipNet
GolIndustry DoveBid
Process Tek
Puretech Process
Systems Ltd
Xylem, WEDECO -
A Xylem Brand

**STERILIZERS,
SUBMICRON**
3M Purification
BEE Intl
EquipNet
GolIndustry DoveBid
**Meissner Filtration
Products**
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek

**STERILIZERS,
TWO-STAGE
FILTRATION**
EquipNet
GolIndustry DoveBid
**Meissner Filtration
Products**
Pall Corp, Life
Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek

**STERILIZERS,
UV RADIATION**
American Plastics
Technologies - Rao
Design Intl

EquipNet
GolIndustry DoveBid
Novatron
Process Tek
Xenon Corp
Xylem, WEDECO -
A Xylem Brand

**STERILIZING
TUNNELS**
American Plastics
Technologies - Rao
Design Intl
Bausch + Stroebel
Machine Co
Bosch Packaging
Technology, Pharma
FPS Food & Pharma
Systems Srl
GolIndustry DoveBid
groninger USA LLC
M&O Perry Industries
MAR Machine
Automatische
Riempitrici SPA
Optima Pharma,
Optima
Machinaey Corp
PennTech Machinery
Corp, The
PennTech Group
Process Tek

STILLS
Bosch Packaging
Technology, Pharma
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GolIndustry DoveBid
International Process
Plants IPP
Keith Machinery Corp
NexGen Enviro Systems
Paul Mueller Co
Pope Scientific

**STIRRERS
(AGITATORS)**
Admix
Apache Stainless
Equipment Corp
Bioengineering
BioPro Intl
BioSpec Products
**Charles Ross &
Son Co**
Chemineer
DCI
De Dietrich Process
Systems
DJS Enterprises
Federal Equipment Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Glen Mills
Globe Scientific
GolIndustry DoveBid
Jaygo
JLS Intl
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Magna-Safe Intl
Metrohm USA
Morse Mfg
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Pope Scientific
PRO Scientific
Sharpe Mixers
Somics & Materials,
Vibra-Cell
Walker Stainless
Equipment Co
Woodley
Equipment Co Ltd

STOPCLOCKS
General Lab &
Cleanroom Supply, dba
General Lab Supply
GolIndustry DoveBid

**STOPPER HANDLING
EQUIPMENT**
GolIndustry DoveBid
METO Corp
Victor Intl Mktg

**STORAGE
EQUIPMENT**
Adept Engineers
Assmann Corp of
America
AZO
Bergen Industrial
Supply Co
BinMaster, Div Garner
Industries
Cole-Parmer
Custom Powder
Systems
CustomVault
DCI
Dematic Corp
Diamondback
Technology
Globe Scientific
GMP Systems
GolIndustry DoveBid
I Holland Ltd
Isolation Systems
Jenike & Johanson
Justrite Mfg Co
Lista Intl Corp
Molded Fiber Glass
Tray Co
Natoli Engineering Co
Paul Mueller Co
Pope Scientific
R Kraft (RKI)
Rotonics Mfg,
RMI-Chicago
Snyder Industries, Dry
Handling & IBC Div
Terra Universal
Walker Stainless
Equipment Co
Woodley
Equipment Co Ltd

STRAINERS
Bergen Industrial
Supply Co
Cole-Parmer
GolIndustry DoveBid
Richter Chemie-Technik
GmbH
Russell Finex
Sani-Matic
Top Line Process
Equipment Co
Unibloc-Pump,
Flowtech Div
Waukesha Cherry-
Burrell, An SPX Brand,
SPX Flow Technology
Westfield Sheet
Metal Works

**STRATEGIC
PLANNING (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**
GolIndustry DoveBid

**SUPPLY CHAIN
MANAGEMENT (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**
Cold Chain
Technologies
Deacom
GolIndustry DoveBid
Sparta Systems
Tunnell Consulting
VAI (Vormittag Assocs)

**SUPPLY CHAIN
MANAGEMENT (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**
Cold Chain
Technologies
Deacom
GolIndustry DoveBid
Sparta Systems
Tunnell Consulting
VAI (Vormittag Assocs)

**SUPPLY CHAIN
MANAGEMENT (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**
Cold Chain
Technologies
Deacom
GolIndustry DoveBid
Sparta Systems
Tunnell Consulting
VAI (Vormittag Assocs)

**SUPPOSITORY
MACHINES**
DJS Enterprises

GolIndustry
DoveBid
Key Intl
MG America

**SUPPOSITORY
TESTERS**
CroPharm
DJS Enterprises
GolIndustry DoveBid
Texture
Technologies Corp

**TABLES,
STAINLESS**
Advance Tabco
American Plastics
Technologies - Rao
Design Intl
Atmos-Tech Industries
Blue Thunder
Technologies
DJS Enterprises
EquipNet
Federal Equipment Co
GMP Systems
GolIndustry DoveBid
HEMCO Corp
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
MO Industries
Natoli Engineering Co
Specialty Equipment
Terra Universal
Union Standard
Equipment Co
Westfield Sheet
Metal Works

TABLET DEDUSTERS
AC Compacting LLC
ACG North America LLC
Advance Engineering &
Mfg Co
American Plastics
Technologies - Rao
Design Intl
C & C Corp
Cadmach Machinery Co
Pvt Ltd
CroPharm
DJS Enterprises
**Elizabeth Carbide
Die Co**
Equipment
Technology Co

EquipNet
Eriez
Federal Equipment Co
**Fette Compacting
America**
GCA Products
GlobePharma
GolIndustry DoveBid
Keith Machinery Corp
Key Intl
Kraemer US LLC
LabX (Auctions)
Natoli Engineering Co
NJM Packaging
Pharmatron
Union Standard
Equipment Co

**TABLET FILLING
AND COUNTING
MACHINES**
ACG North America LLC
Advance Engineering &
Mfg Co
American Plastics
Technologies - Rao
Design Intl
Batching Systems
BellatRx
C & C Corp
Capmatic Ltd,
Headquarters
Confab Labs
DJS Enterprises
Equipment
Technology Co
EquipNet
Federal Equipment Co
Frain Industries



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**The global leader in
dedusting solutions.**

Krämer

Allendale, New Jersey, USA
www.kraemerus.com
Andre.Petric@kraemerus.com

For vendor contact information, see Company Directory section.

GCA Products
GlobePharma
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 Kirby Lester LLC
 LabX (Auctions)
 NJM Packaging
 Rice Lake Weighing
 Systems
 Union Standard
 Equipment Co

TABLET HANDLING EQUIPMENT

AC Compacting LLC
 Advance Engineering & Mfg Co
 American Plastics
 Technologies - Rao
 Design Intl
 AZO
 C & C Corp
 Custom Powder Systems
 DJS Enterprises
 Efficient Automated
 Machine Corp
 EHS Solutions LLC
EquipNet
 Eriez
Federal Equipment Co
 GEA Process
 Engineering, GEA
 Pharma Systems
 GoIndustry DoveBid
 Jenike & Johanson
 Key Intl
Kraemer US LLC
 LB Bohle LLC
 METO Corp
 Molins Technologies
Natoli Engineering Co
 NJM Packaging
 Process Solutions

TABLET HOPPERS

Advance Engineering & Mfg Co
 American Plastics
 Technologies - Rao
 Design Intl
 C & C Corp
 Custom Powder
 Systems
 Diamondback
 Technology
 DJS Enterprises
 Equipment
 Technology Co
EquipNet
Federal Equipment Co
 GCA Products
GlobePharma
 GoIndustry DoveBid
 Jenike & Johanson
 Keith Machinery Corp
 Kirby Lester LLC
 LB Bohle LLC
Natoli Engineering Co
 Nicos Group
 NJM Packaging
 Process Solutions
 Rotronics Mfg, RMI-
 Chicago
 RW Hartnett Co
 Snyder Industries, Dry
 Handling & IBC Div

TABLET PRESSES

Elizabeth Carbide
 Die Co

TABLET PRINTING EQUIPMENT

AC Compacting LLC
 Ackley Machine Corp
 American Plastics
 Technologies - Rao
 Design Intl
 Control Micro Systems
 DJS Enterprises
 Efficient Automated
 Machine Corp
EquipNet
Federal Equipment Co
 GoIndustry DoveBid
 Griffin-Rutgers Co

Keith Machinery Corp
 Key Intl
 Matthews Intl Corp,
 Matthews Marking
 Systems
Qualicaps
 RW Hartnett Co
 Union Standard
 Equipment Co
 Videojet Technologies

TABLET SORTERS

AC Compacting LLC
 ACG North America LLC
 Ackley Machine Corp
 Bosch Inspection
 Technology
 C & C Corp
 Capmatic Ltd,
 Headquarters
 CI Electronics Ltd
 CI Precision
 DJS Enterprises
 Driam USA
 Efficient Automated
 Machine Corp
EquipNet
 Eriez
Federal Equipment Co
 GoIndustry DoveBid
 Keith Machinery Corp
 Prodtic
Qualicaps
 RW Hartnett Co
 Symetix

TABLET TESTERS

ABB Analytical
 Measurement
 AC Compacting LLC
 Advance Engineering & Mfg Co
Atlantic Scale Co
 Bosch Packaging
 Technology, Pharma
 C & C Corp
 CI Electronics Ltd
 CI Precision
 CroPharm
 Distek
 DJS Enterprises
EquipNet
Federal Equipment Co
Fette Compacting
America
GlobePharma
 GoIndustry DoveBid
 Hanson Research Corp
 I Holland Ltd
 Keith Machinery Corp
 Key Intl
 Kirby Lester LLC
Natoli Engineering Co
 Newage Testing
 Instruments, AMETEK
 Subsidiary of AMETEK
 Pharmatron
 RW Hartnett Co
 Texture
 Technologies Corp
 TRICOR Systems

TABLET TOOLING

ACG North America LLC
 Adept Engineers
 Advance Engineering & Mfg Co
 American Plastics
 Technologies - Rao
 Design Intl
 Beamalloy
 Technologies LLC
 Bosch Packaging
 Technology, Pharma
 C & C Corp
 Cadmach Machinery Co
 Pvt Ltd
 DJS Enterprises
EquipNet
Federal Equipment Co
Fette Compacting
America
 GoIndustry DoveBid
 I Holland Ltd
Natoli Engineering Co

TANK COVERS

Alfa Laval
 DCI
 DJS Enterprises
 FabOhio
 GoIndustry DoveBid
 Keith Machinery Corp
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
Natoli Engineering Co
 Town & Country
 Plastics

TANK LINERS

Andax Industries LLC
 Cole-Parmer
 DJS Enterprises
 GoIndustry DoveBid
 Parker domnick hunter,
 Process Filtration
 Seal Master Corp
 Town & Country
 Plastics

TANK SEALS

DCI
 GoIndustry DoveBid
 Newman Sanitary
 Gasket Co
 Row
 Rubber Fab
 Technologies Group
 Seal Master Corp

TANKS, COATED

Apache Stainless
 Equipment Corp
 Areo Power Unitized
 Fueler
 AZO
 Black Forest Container
 Systems LLC
Charles Ross & Son Co
 DCI
EquipNet
Federal Equipment Co
 GoIndustry DoveBid
 International Process
 Plants IPP
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 MKS Instruments
 Niles Steel Tank
 Pope Scientific
 Process Technology

TANKS, FLUOROPOLYMER-LINED

Apache Stainless
 Equipment Corp
Charles Ross & Son Co
EquipNet
 GoIndustry DoveBid
 International Process
 Plants IPP
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Pope Scientific
 Process Technology

TANKS, GLASS-LINED

ARCHON Industries
 Areo Power Unitized
 Fueler
 Chem Flowtronics
 Custom Metalcraft
 DCI
 De Dietrich Process
 Systems
EquipNet
Federal Equipment Co
 Frain Industries
 GoIndustry DoveBid
 International Process
 Plants IPP
 Niles Steel Tank

TANKS, JACKETED

A&B Process
 Systems Corp
 Admix

Allegheny Bradford
 Corp, Corporate
 American Alloy
 Fabricators
 American Plastics
 Technologies - Rao
 Design Intl
 Apache Stainless
 Equipment Corp
 Areo Power Unitized
 Fueler
 BHS-Filtration
 Black Forest Container
 Systems LLC
 Briggs of Burton
 C & C Corp
 Chem Flowtronics
 Comber USA
 Custom Metalcraft
 DCI
 De Dietrich Process
 Systems
 DJS Enterprises
EquipNet
Federal Equipment Co
 Frain Industries
 GoIndustry DoveBid
 International Process
 Plants IPP
 Jaygo
 JLS Intl
 Keith Machinery Corp
 Keystone Process
 Equipment
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 MKS Instruments
 Myers Engineering
 Niles Steel Tank
 Paul Mueller Co
 Pope Scientific
 Sartorius Stedim
 North America
 Scott Turbon Mixer
 Stainless Fabrication
 Union Standard
 Equipment Co
 Walker Stainless
 Equipment Co

TANKS, MIXING

A&B Process
 Systems Corp
 Admix
 AIM Blending
 Technologies
 Alfa Laval
 Allegheny Bradford
 Corp, Corporate
 American Alloy
 Fabricators
 American Plastics
 Technologies - Rao
 Design Intl
 Apache Stainless
 Equipment Corp
 Assmann Corp of
 America
 Black Forest Container
 Systems LLC
 Briggs of Burton
 C & C Corp
Charles Ross & Son Co
 Cole-Parmer
 Custom Metalcraft
 DCI
 DJS Enterprises
Eagle Stainless
Container
EquipNet
Federal Equipment Co
 Frain Industries
 GEA Process Engineering,
 GEA Pharma Systems
 GMP Systems
 GoIndustry DoveBid
 International Process
 Plants IPP
 Jaygo
 JLS Intl
 Keith Machinery Corp
 Keystone Process
 Equipment
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs

TANKS, PRESSURE, PORTABLE

A&B Process
 Systems Corp
 Allegheny Bradford
 Corp, Corporate
 American Alloy
 Fabricators
 American Plastics
 Technologies - Rao
 Design Intl
 Apache Stainless
 Equipment Corp
 Bergen Industrial
 Supply Co
 BHS-Filtration
 Black Forest Container
 Systems LLC
Charles Ross & Son Co
 Custom Metalcraft

Magna-Safe Intl
 Mycoscience
 Myers Engineering
 Niles Steel Tank
 Paul Mueller Co
 Pope Scientific
 Process Solutions
 Rotronics Mfg,
 RMI-Chicago
 Sartorius Stedim North
 America
 Scott Turbon Mixer
 Sharpe Mixers
 Snyder Industries, Dry
 Handling & IBC Div
 Stainless Fabrication
 Town & Country
 Plastics
 Union Standard
 Equipment Co
 Walker Stainless
 Equipment Co

TANKS, PLAIN

A&B Process
 Systems Corp
 Allegheny Bradford
 Corp, Corporate
 American Plastics
 Technologies - Rao
 Design Intl
 Apache Stainless
 Equipment Corp
 Areo Power Unitized
 Fueler
 Assmann Corp of
 America
 Black Forest Container
 Systems LLC
Charles Ross & Son Co
 Cole-Parmer
 Custom Metalcraft
 DCI
 DJS Enterprises
Eagle Stainless
Container
EquipNet
Federal Equipment Co
 Frain Industries
 GEA Process
 Engineering, GEA
 Pharma Systems
 GMP Systems
 GoIndustry DoveBid
 International Process
 Plants IPP
 JLS Intl
 Keith Machinery Corp
 Keystone Process
 Equipment
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Myers Engineering
 Niles Steel Tank
 Paul Mueller Co
 Pope Scientific
 Process Solutions
 Rotronics Mfg, RMI-
 Chicago
 Stainless Fabrication
 Town & Country Plastics
 Union Standard
 Equipment Co
 Walker Stainless
 Equipment Co

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 De Dietrich Process
 Systems
 DJS Enterprises
Eagle Stainless
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Federal Equipment Co
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 GoIndustry DoveBid
 International Process
 Plants IPP
 Isolation Systems
 Jaygo
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 Keystone Process
 Equipment
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
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 Myers Engineering
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 Paul Mueller Co
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 Handling & IBC Div
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 AIM Blending
 Technologies
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 Technologies - Rao
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 Evaporator Dryer
 Technologies
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 Frain Industries
 GEA Process
 Engineering, GEA
 Pharma Systems
 GMP Systems
 GoIndustry DoveBid
 Harrison
 Electropolishing LP
 International Process
 Plants IPP
 Isolation Systems
 Jaygo
 JLS Intl

Keith Machinery Corp
Keystone Process
Equipment
LabX (Auctions)
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
MKS Instruments
MM Industries,
Vorti-Siv Div
Mokon
Myers Engineering
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Sani-Matic
Schaefer Technologies
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Handling & IBC Div
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Custom Metalcraft
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Ellab
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Julabo USA
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GoIndustry DoveBid
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Masy Systems
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Custom Heat LLC
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E Instruments Intl
GF Piping Systems
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GoIndustry DoveBid
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Burkert Fluid Control
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Pentair Environmental
Systems
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JLS Intl
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Key Intl
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Systems & Equipment/
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SPX Flow Technology
Bray Intl
Cashco
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Flow Solutions
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Omega Engineering
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Rockwell Automation
Sierra Instruments
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National Bulk
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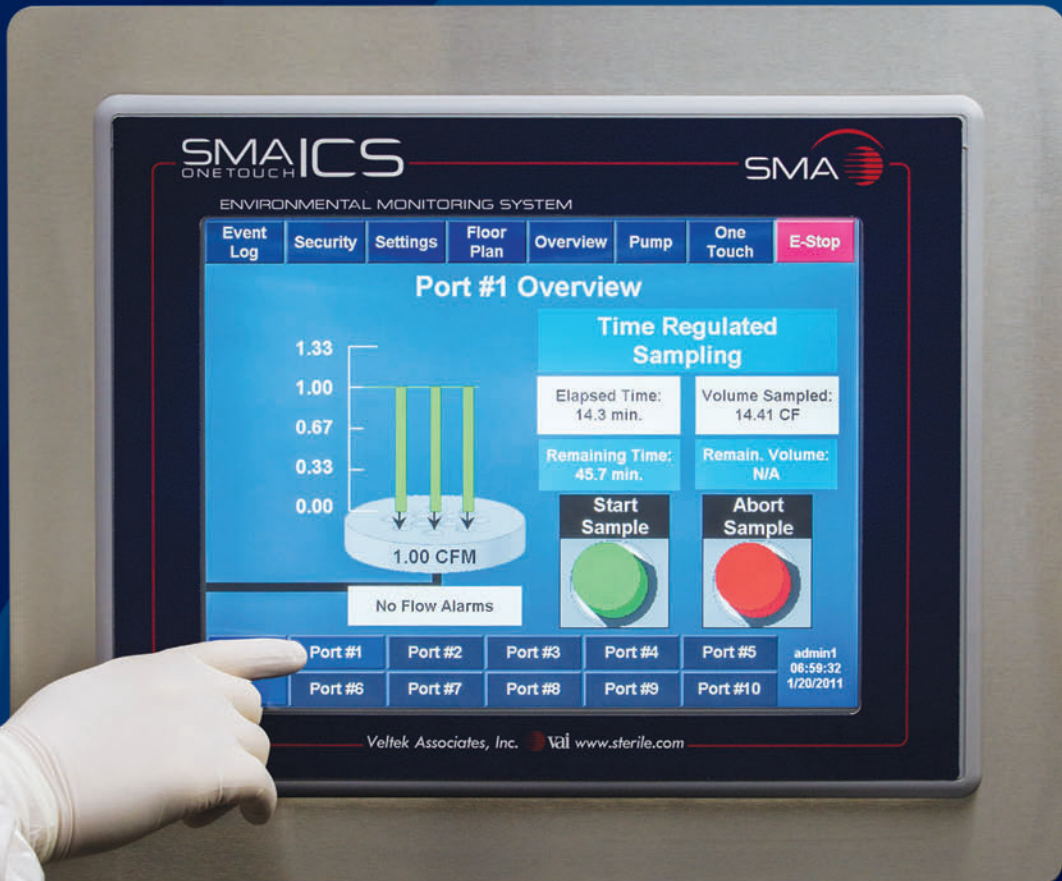
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Wheaton Industries, Packaging

CAPS, REUSABLE

Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Parkway Plastics
STAXS Belgium
Ultrapure Technology

Wheaton Industries, Wheaton Science Packaging
Worklon

CARTS

Akro-Mils
Bergen Industrial Supply Co
BioFit Engineered Products
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
Garvey Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Hurst Corp
Hutchins & Hutchins
Integrated Containment Systems
Isolation Systems
Kewaunee Scientific Corp
Liberty Industries
Natoli Engineering Co
Nicos Group
R Kraft (RKI)
STAXS Belgium
Terra Universal
UltraClean Laundry Equipment LLC
Ultrapure Technology
Westfield Sheet Metal Works

CEILING FILTER MODULES, DISPOSABLE

AAF Intl, (American Air Filter)
AES Clean Technology
Angstrom Technology
Atmos-Tech Industries
CleanZones LLC
Connecticut Clean Room Corp
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Quality Air Control
R Kraft (RKI)
Telstar North America
Terra Universal
Ultrapure Technology

CEILING FILTER MODULES, SELF-CONTAINED

AAF Intl, (American Air Filter)
AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
Atmos-Tech Industries
Baker Co, The
CleanZones LLC
Connecticut Clean Room Corp
Design Filtration
General Lab & Cleanroom Supply, dba General Lab Supply
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Integrated Containment Systems
Isolation Systems
Laminar Flow
Liberty Industries

LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
Telstar North America
Terra Universal
Ultrapure Technology

CEILING GRID SYSTEMS

AAF Intl, (American Air Filter)
AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
CleanZones LLC
Design Filtration
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
PortaFab Cleanroom Systems
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
Ultrapure Technology

CEILING PANELS

AAF Intl, (American Air Filter)
AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
CleanZones LLC
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
PortaFab Cleanroom Systems
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
Telstar North America
Ultrapure Technology

CEILING SYSTEMS

AAF Intl, (American Air Filter)
AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
CleanZones LLC
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
PortaFab Cleanroom Systems
Quality Air Control
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
Telstar North America
Ultrapure Technology

CERTIFICATION SERVICES

ACM, Advanced Cleanroom Microclean
Cleanroom Consulting LLC
Connecticut Clean Room Corp
E Instruments Intl
ENV Services
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Particle Measuring Systems
R Kraft (RKI)

CHAIRS

Angstrom Technology
BioFit Engineered Products
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Natoli Engineering Co
Nicos Group
Plug-In Storage Systems /PSSI
R Kraft (RKI)
STAXS Belgium
Terra Universal
Ultrapure Technology

CHEMICAL ADSORBERS

Andax Industries LLC
Flow Sciences
STAXS Belgium

CLEANING AND SANITIZING AGENTS

ACM, Advanced Cleanroom Microclean
Alconox
AmeriVap Systems
Angstrom Supply
Bergen Industrial Supply Co
Connecticut Clean Room Corp
Decon Labs
Edgeco
Electron Microscopy Sciences
General Lab & Cleanroom Supply, dba General Lab Supply
Hartco, Cleanroom Div
International Products Corp
ITW Texwipe
Liberty Industries
Mar Cor Purification
Natoli Engineering Co
Scientific Materials Corp
STAXS Belgium
Ultrapure Technology

CLEANING TOOLS

ACM, Advanced Cleanroom Microclean
AmeriVap Systems
Angstrom Supply
Blue Thunder Technologies
Gamajet Cleaning Systems
General Lab & Cleanroom Supply, dba General Lab Supply

ITW Texwipe
Liberty Industries
Natoli Engineering Co
Perflex Corp
STAXS Belgium
Steritool
The Spencer Turbine Co
Ultrapure Technology

CLIPBOARDS

Blue Thunder Technologies
Connecticut Clean Room Corp
Control Co
Edgeco
ITW Texwipe
Liberty Industries
Terra Universal
Ultrapure Technology

COMPRESSORS

Bullard
Nash, A Gardner Denver Product
Quality Air Control
Terra Universal
Tuthill Vacuum & Blower Systems

CONSTRUCTION SERVICES

A&B Process Systems Corp
ACM, Advanced Cleanroom Microclean
AES Clean Technology
Angstrom Technology
Innovative Processing Solutions
JM Coull
Liberty Industries
Nicos Group
PortaFab Cleanroom Systems
Quality Air Control
R Kraft (RKI)
The Austin Co
Ultrapure Technology

CONTAINMENT ROOMS

AES Clean Technology
Angstrom Technology
Atmos-Tech Industries
CleanZones LLC
FabOhio
HEMCO Corp
International Portland Corp
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
PortaFab Cleanroom Systems
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
Telstar North America
Terra Universal
Ultrapure Technology
Walker Barrier Systems

CONVEYOR SYSTEMS

American Plastics Technologies - Rao Design Intl
AZO
Bausch + Stroebel Machine Co
Capmatic Ltd, Headquarters
Eriez
FP Developments
Garvey Corp
HECHT Technology GmbH, Bulk Material Handling
Innovative Processing Solutions
OCS Checkweighers
Piab
QC Industries LLC

COVERALLS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Andax Industries LLC
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeco
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HECHT Technologie
GmbH, Bulk Material
Handling
Hutchins & Hutchins
Liberty Industries
R Kraft (RKI)
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology
ValuMax Disposable
Apparel

COVERALLS, REUSABLE

Andax Industries LLC
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology
Worklon

COVERALLS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
Renco Corp
STAXS Belgium
Ultrapure Technology
Veltek Associates Inc

CURTAINS

AES Clean Technology
Angstrom Technology
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
FabOhio
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Quality Air Control
Rite-Hite
Simplex Isolation
Systems, Div Simplex
Strip Doors

Terra Universal
Trax Industrial Products
Corp, Trax CleanRoom
Curtains Div
Ultrapure Technology

CUSTOM-BUILT EQUIPMENT

A&B Process
Systems Corp
Advance Tabco
American Plastics
Technologies - Rao
Design Intl
Angstrom Technology
Aspect Automation
Atmos-Tech Industries
Baker Co, The
Buffalo Air Handling
CleanZones LLC
CSR Pharma Services
Design Filtration
Evaporator Dryer
Technologies
Flow Sciences
Fortress Technology
Garvey Corp
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
International
Portland Corp
Isolation Systems
Liberty Industries
Material Transfer &
Storage
Mokan
Norman N Axelrod
Assocs, Optical
Sensing & Control
Systems
Development Div
Pink GmbH
Thermosysteme
Saint-Gobain
Performance Plastics
Schober USA
Simplex Isolation
Systems, Div Simplex
Strip Doors
Telstar North America
Terra Universal
UltraClean Laundry
Equipment LLC
Ultrapure Technology
VISIONx

DESIGN SERVICES

A&B Process
Systems Corp
AES Clean Technology
American Plastics
Technologies - Rao
Design Intl
Cleanroom Mgmt
Assocs

DEHUMIDIFIERS

Bry-Air
Cole-Parmer
CSR Pharma Services
Isolation Systems
Membrana
Munters Corp, Air
Treatment
Quality Air Control
Terra Universal

DESICCATOR CABINETS

Blue Thunder
Technologies
Connecticut Clean
Room Corp
Darwin Chambers Co
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
Labconco Corp
Liberty Industries
R Kraft (RKI)
Terra Universal

DESIGN SERVICES

A&B Process
Systems Corp
AES Clean Technology
American Plastics
Technologies - Rao
Design Intl
Cleanroom Mgmt
Assocs

Dr Geoffrey P Jacobs
Assocs
El Assocs
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Industrial Hydrocarbons
Innovative Processing
Solutions
Integrated Containment
Systems
Isolation Systems
Keller Packaging
Engineering
Group LLC

Natoli Engineering Co

Nicos Group
Norman N Axelrod
Assocs, Optical
Sensing & Control
Systems
Development Div
Practical Technology
R Kraft (RKI)
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
The Austin Co
Xcellerex

DESIGN SOFTWARE

comes compliance
services
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies

DIFFUSERS

HEMCO Corp
Isolation Systems
Liberty Industries
McGill AirFlow LLC
Nicos Group
Quality Air Control
Westfield Sheet Metal
Works

DOORS, AUTOMATIC

AES Clean Technology
Air-Lec Industries
Corrim Co
Erich Industries,
Performance
Products Div
HEMCO Corp
Horton Automatics
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
PortaFab Cleanroom
Systems
Rite-Hite

DOORS, MANUAL

AES Clean Technology
Corrim Co
Erich Industries,
Performance
Products Div
Evaporator Dryer
Technologies
HEMCO Corp
Horton Automatics
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
PortaFab Cleanroom
Systems
Simplex Isolation Systems,
Div Simplex Strip Doors
Trax Industrial Products
Corp, Trax CleanRoom
Curtains Div

DUCTS

HEMCO Corp
Isolation Systems
McGill AirFlow LLC
Quality Air Control

ELECTRICAL EQUIPMENT

Cole-Parmer
Durex Industries
Rockwell Automation
Russellectric
Siemens Industry,
Automation & Drive
Technologies

ENERGY MANAGEMENT SYSTEMS

ACR Systems
Flow Sciences
R Kraft (RKI)
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
Sierra Instruments

ENGINEERING SERVICES

A&B Process
Systems Corp
American Plastics
Technologies - Rao
Design Intl
Aspect Automation
Bry-Air
Cleanroom
Consulting LLC
comes compliance
services
EHS Solutions LLC
El Assocs
Evaporator Dryer
Technologies
Halco Products Co, Div
Hale Engineering Co
Industrial Hydrocarbons
Innovative Processing
Solutions
Isolation Systems
Keller Packaging
Engineering
Group LLC
Lighthouse Worldwide
Solutions
Norman N Axelrod
Assocs, Optical
Sensing & Control
Systems
Development Div
pixon engineering
Practical Technology
Quality Air Control
R Kraft (RKI)
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
Steritool
Telstar North America
The Austin Co

ENVIRONMENTAL CONTROL SYSTEMS

Adwest Technologies,
VOC Abatement Div
Anquil Environmental
Systems
BioCold Environmental
E Instruments Intl
ENMET Corp
ETC, Sterilization
Systems
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Isolation Systems
Liberty Industries
Lighthouse Worldwide
Solutions
Met - Pro Environmental
Air Solutions - Dual
Met - Pro Environmental
Air Solutions - Flex-
Kleen

Met-Pro Environmental
Air Solutions -
Systems,
Met-Pro Corp
MikroPul
Neutronics, Gas
Analysis Solutions
Newport Electronics
Process Tek
Quality Air Control
Rockwell Automation
Scientific Dust
Collectors
Sensaphone
Siemens Infrastructure +
Cities, Building
Technologies Div

ENVIRONMENTAL SENSORS

Arizona Instrument LLC
Carltext
DeltaTRAK
E Instruments Intl
HEMCO Corp
Isolation Systems
Lighthouse Worldwide
Solutions
Masy Systems
Mettler Toledo, Lab
Mil-Ram Technology
Neutronics, Gas
Analysis Solutions
Newport Electronics
optek-Danulat
Particle Measuring
Systems
Process Tek
R Kraft (RKI)
Rapid Micro Biosystems
Rockwell Automation
Rotronic
Instrument Corp
Sensaphone
Siemens Infrastructure +
Cities, Building
Technologies Div
Vaisala

ENVIRONMENTAL TEST CHAMBERS

Atlas Material Testing
Technology LLC
Bahnon Environmental
Specialties, An
EMCOR Co
BioCold Environmental
CARON Products & Services
Cole-Parmer
Darwin Chambers Co
EGC (Environmental
Growth Chambers)
ESPEC North America
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Nor-Lake
R Kraft (RKI)
Terra Universal

EPOXY FINISHES

HEMCO Corp
Isolation Systems
ITW Devcon
Key Resin Co
Liberty Industries

EQUIPMENT REPAIR SERVICES

Lighthouse Worldwide
Solutions

EXHAUST CONTROL VALVES

American Plastics
Technologies - Rao
Design Intl
Isolation Systems
MKS Instruments
Quality Air Control

EXHAUST CONTROLLERS

American Plastics
Technologies - Rao
Design Intl
HEMCO Corp
Isolation Systems
MKS Instruments

EXHAUST SYSTEMS

Biological Controls
Flow Sciences
HEMCO Corp
International
Portland Corp
Isolation Systems
McGill AirFlow LLC
Strobic Air Corp, Sub
Met-Pro Corp
Terra Universal
Westfield Sheet Metal
Works

FACE MASKS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeco
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
Qosina
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology
ValuMax Disposable
Apparel

FACE MASKS, FOAM MOLDED

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Ultrapure Technology

FACE MASKS, MOLDED

Angstrom Supply
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Renco Corp
Ronco
STAXS Belgium
Ultrapure Technology
ValuMax Disposable
Apparel

For vendor contact information, see Company Directory section.

FACE MASKS, REUSABLE

Allegro Industries
Angstrom Supply
Blue Thunder Technologies
Bullard
Cole-Parmer
Connecticut Clean Room Corp
CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
Renco
Spectronics Corp
STAXS Belgium
Ultrapure Technology
Worklon

FACE MASKS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Bullard
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Renco Corp
STAXS Belgium
Ultrapure Technology
Veltek Associates Inc

FACILITY MONITORING SYSTEMS

Climet Instruments Co
CSR Pharma Services
E Instruments Intl
Hampshire
Controls Corp
Lighthouse Worldwide Solutions
Masy Systems
Mil-Ram Technology
Newport Electronics
PureAire Monitoring Systems
R Kraft (RKI)
Rockwell Automation
Sensaphone
Siemens Infrastructure + Cities, Building Technologies Div

FANS

Allegro Industries
CleanZones LLC
Elmo Rietschle
Products, Industrial Products Group
Flow Sciences
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Met - Pro Environmental
Air Solutions - Dual
Quality Air Control
Strobic Air Corp, Sub
Met-Pro Corp
Terra Universal
The Spencer Turbine Co
Tri-Mer Corp
Ultrapure Technology

FILTERS, HEPA ULPA

ACM, Advanced
Cleanroom Microclean
AES Clean Technology
AirClean Systems
American Plastics
Technologies - Rao
Design Intl
Angstrom Supply

Angstrom Technology
Atmos-Tech Industries
Blue Thunder Technologies
CleanZones LLC
Connecticut Clean Room Corp
Design Filtration
Donaldson Co, Donaldson Torit
Enguard Systems, Div
Containment Technologies Group
ENV Services
EquipNet
Fette Compacting
America
General Lab & Cleanroom Supply, dba General Lab Supply
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Keystone Filter, Met-Pro Corp
Labconco Corp
Liberty Industries
Quality Air Control
R Kraft (RKI)
UltraClean Laundry
Equipment LLC
Ultrapure Technology
United Air Specialists, a
CLARCOR Co

FIRE SUPPRESSION SYSTEMS

Evaporator Dryer
Technologies
Industrial Hydrocarbons
Isolation Systems
Siemens Infrastructure + Cities, Building Technologies Div

FIRE/SMOKE DETECTION SYSTEMS

CSR Pharma Services
Industrial Hydrocarbons
Isolation Systems
Mil-Ram Technology
Quality Air Control
Siemens Infrastructure + Cities, Building Technologies Div

FLOOR FINISHES

ACM, Advanced
Cleanroom Microclean
Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
ITW Devcon
Key Resin Co
Liberty Industries
Nicos Group
Plug-In Storage Systems /PSSI
Stonhard

FLOOR SEALANTS

ACM, Advanced
Cleanroom Microclean
Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
ITW Devcon
Key Resin Co
Liberty Industries
Plug-In Storage Systems /PSSI
Stonhard

FLOOR STRIPPERS

ACM, Advanced
Cleanroom Microclean
Blue Thunder Technologies

General Lab & Cleanroom Supply, dba General Lab Supply
Liberty Industries
Plug-In Storage Systems /PSSI

FLOOR SUPPORT SYSTEMS

ACM, Advanced
Cleanroom Microclean
Fibergrate Composite Structures

FLOOR WAX

ACM, Advanced
Cleanroom Microclean
Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Plug-In Storage Systems /PSSI

FLOORING

Angstrom Supply
Angstrom Technology
HEMCO Corp
Key Resin Co
Nicos Group
nora systems
Quality Air Control
Scientific Materials Corp
Stonhard

FOGGERS

Design Air Solutions
PWC Technologies

FRAMING SYSTEMS

HEMCO Corp
Isolation Systems
Nicos Group
PortaFab Cleanroom Systems

FROCKS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Terra Universal
Ultrapure Technology
ValuMax Disposable Apparel

FROCKS, REUSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Terra Universal
Ultrapure Technology
Worklon

FROCKS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies

Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
Ultrapure Technology

FUME HOODS

AirClean Systems
Angstrom Technology
Atmos-Tech Industries
Baker Co, The
Blue Thunder Technologies
CleanZones LLC
Cole-Parmer
CSR Pharma Services
Design Filtration
Donaldson Co, Donaldson Torit
Flow Sciences
General Lab & Cleanroom Supply, dba General Lab Supply
HEMCO Corp
Hutchins & Hutchins
International
Portland Corp
Isolation Systems
Kewaunee Scientific Corp
Labconco Corp
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
McGill AirFlow LLC
Met - Pro Environmental
Air Solutions - Dual
NuAire
Quality Air Control
R Kraft (RKI)
Ultrapure Technology

FURNITURE

Advance Tabco
Angstrom Technology
Atmos-Tech Industries
BioFit Engineered Products
Blue Thunder Technologies
Cleatech LLC
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Natoli Engineering Co
R Kraft (RKI)
STAXS Belgium
Terra Universal
Ultrapure Technology

GARMENT CLEANING EQUIPMENT

UltraClean Laundry
Equipment LLC
Ultrapure Technology

GARMENT FABRIC

Blue Thunder Technologies
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Precision Fabrics
Group, Performance
Fabrics Div

GARMENT RACKS

Advance Tabco
Angstrom Technology
Blue Thunder Technologies
CleanZones LLC
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
R Kraft (RKI)
STAXS Belgium
Terra Universal
Ultrapure Technology

GARMENT STORAGE BAGS

CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Ultrapure Technology

GARMENTS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Andax Industries LLC
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology
ValuMax Disposable Apparel
Veltek Associates Inc

GARMENTS, RENTAL

Angstrom Supply
Blue Thunder Technologies
CSR Pharma Services
STAXS Belgium

GARMENTS, REUSABLE

Andax Industries LLC
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Terra Universal
Ultrapure Technology
Worklon

GARMENTS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply

Blue Thunder Technologies
Connecticut Clean Room Corp
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
STAXS Belgium
Ultrapure Technology

GARMENTS, TYVEK

ACM, Advanced
Cleanroom Microclean
Andax Industries LLC
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
R Kraft (RKI)
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology

GASKETS

Bergen Industrial Supply Co

GLOVE BOXES

Angstrom Supply
Atmos-Tech Industries
Baker Co, The
Blue Thunder Technologies
Cleatech LLC
Cole-Parmer
Connecticut Clean Room Corp
CSR Pharma Services
Custom Powder Systems
Edgeco
Enguard Systems, Div
Containment Technologies Group
FabOhio
Flow Sciences
FPS Food & Pharma Systems Srl
General Lab & Cleanroom Supply, dba General Lab Supply

Halco Products Co, Div
Hale Engineering Co
HECHT Technologie GmbH, Bulk Material Handling
Hosokawa Micron Powder Systems
Hutchins & Hutchins
Integrated Containment Systems
ISO Tech Design
Isolation Systems
Labconco Corp
Laminar Flow
Liberty Industries
McCrone
Microscopes & Accessories
NexGen Enviro Systems
NuAire
Pink GmbH
Thermosysteme
Powder Systems Ltd
Process Tek
R Kraft (RKI)
Renco Corp
Renco
Schaefer Technologies
STAXS Belgium
Telstar North America
Terra Universal

Ultrapure Technology
Walker Barrier Systems
Westfield Sheet Metal
Works

GLOVE LINERS

Angstrom Supply
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Renco Corp
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

**GLOVES,
AMBIDEXTROUS**

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Custom Powder
Systems
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
KNF Corp
Liberty Industries
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Walker Barrier Systems
Wells Lamont Industrial

**GLOVES,
DISPOSABLE**

ACM, Advanced
Cleanroom Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Andax Industries LLC
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
KNF Corp
Liberty Industries
Qosina
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology

GLOVES, LATEX

ACM, Advanced
Cleanroom Microclean
Angstrom Supply

Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Labconco Corp
Liberty Industries
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology

GLOVES, NEOPRENE

ACM, Advanced
Cleanroom Microclean
Andax Industries LLC
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Labconco Corp
Liberty Industries
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

GLOVES, NITRILE

ACM, Advanced
Cleanroom Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Andax Industries LLC
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
Enguard Systems,
Div Containment
Technologies Group
FabOhio
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Labconco Corp
Liberty Industries
NuAire

Qosina
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

GLOVES, NYLON

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
Renco Corp
Ronco
STAXS Belgium
Ultrapure Technology
Wells Lamont Industrial

**GLOVES,
POLYESTER**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
Renco Corp
Ronco
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

**GLOVES,
POLYURETHANE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
Renco Corp
Ronco
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

**GLOVES,
POWDER-FREE**

ACM, Advanced
Cleanroom
Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Mycoscience
Qosina
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology

**GLOVES,
POWDERED**

ACM, Advanced
Cleanroom
Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
Edgeo
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
R Kraft (RKI)
Renco Corp
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology

GLOVES, PTFE

ACM, Advanced
Cleanroom
Microclean
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
KNF Corp
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology
WL Gore & Assocs,
Gore PharmBIO
Products

GLOVES, REUSABLE

Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Renco Corp
Ronco
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

GLOVES, STERILE

ACM, Advanced
Cleanroom Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Enguard Systems,
Div Containment
Technologies Group
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
R Kraft (RKI)
Renco Corp
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology
Wells Lamont Industrial

GLOVES, VINYL

ACM, Advanced
Cleanroom Microclean
Air-Tite Products,
Syringe & Needle
Products Div
Angstrom Supply
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Connecticut Clean
Room Corp
CSR Pharma Services
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply, dba
General Lab Supply
Hutchins & Hutchins
Liberty Industries
Qosina
R Kraft (RKI)
Renco Corp
Ronco
Shoe Inn
STAXS Belgium
Terra Universal
Ultrapure Technology

GOGGLES

Andax Industries LLC
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
CSR Pharma Services

Edgeo
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Qosina
Spectronics Corp
STAXS Belgium
Ultrapure Technology
Vision USA,
a Dextrux Co

**HAND CLEANING
SYSTEMS**

Advance Tabco
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Decon Labs
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Meritech
Pall Life Sciences,
Biopharmaceuticals
Renco Corp
Terra Universal
Ultrapure Technology

**HAND
CONDITIONERS**

Air-Tite Products,
Syringe & Needle
Products Div
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Decon Labs
Electron Microscopy
Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Renco Corp
Ultrapure Technology

HAND DRYERS

Connecticut Clean
Room Corp
Edgeo
Liberty Industries
Meritech
Terra Universal

**HAND PROTECTION
AGENTS**

Connecticut Clean
Room Corp
Decon Labs
Liberty Industries
Renco Corp
STAXS Belgium

HAND SOAP

ACM, Advanced
Cleanroom Microclean
Connecticut Clean
Room Corp
Decon Labs
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Meritech
STAXS Belgium

**HAND TOOLS,
AUTOCLAVABLE**

General Lab &
Cleanroom Supply, dba
General Lab Supply
Kebby Industries
STAXS Belgium
Steritool

HIGH POTENCY MATERIAL HANDLING EQUIPMENT

Central Research Labs
Custom Powder Systems
EHS Solutions LLC
FPS Food & Pharma Systems Srl
Integrated Containment Systems
Nicos Group
Optima Pharma, Optima Machinery Corp
Powder Systems Ltd

HOODS, DISPOSABLE

ACM, Advanced Cleanroom Microclean
Allegro Industries
Angstrom Supply
Blue Thunder Technologies
Bullard
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
HECHT Technologie GmbH, Bulk Material Handling
Hutchins & Hutchins
Liberty Industries
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology

HOODS, EYES ONLY

ACM, Advanced Cleanroom Microclean
Blue Thunder Technologies
Connecticut Clean Room Corp
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Terra Universal
Ultrapure Technology
Worklon

HOODS, FILTERED-AIR

AirClean Systems
Baker Co, The
Blue Thunder Technologies
Bullard
CleanZones LLC
Connecticut Clean Room Corp
HEMCO Corp
Hutchins & Hutchins
International
Portland Corp
Isolation Systems
Kewaunee Scientific Corp
LabX (Auctions)
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Quality Air Control
STAXS Belgium
Ultrapure Technology

HOODS, OPEN-FACE

ACM, Advanced Cleanroom Microclean
Allegro Industries
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
Euclid Vidaro Mfg Co

General Lab & Cleanroom Supply, dba General Lab Supply
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
STAXS Belgium
Terra Universal
Town & Country Plastics
Ultrapure Technology
Worklon

HOODS, REUSABLE

Allegro Industries
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
Euclid Vidaro Mfg Co
General Lab & Cleanroom Supply, dba General Lab Supply
HEMCO Corp
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Terra Universal
Ultrapure Technology
Worklon

HOODS, STERILE

ACM, Advanced Cleanroom Microclean
AirClean Systems
Angstrom Supply
Baker Co, The
Blue Thunder Technologies
Connecticut Clean Room Corp
Enguard Systems, Div Containment Technologies Group
General Lab & Cleanroom Supply, dba General Lab Supply
HEMCO Corp
Hutchins & Hutchins
International
Portland Corp
Isolation Systems
Liberty Industries
Process Tek
Quality Air Control
STAXS Belgium
Ultrapure Technology

HUMIDITY CONTROL SYSTEMS

AES Clean Technology
ARS Enterprises, ARS/Beverly Pacific Sterilizers
BioCold Environmental
Bry-Air
Cleatech LLC
Darwin Chambers Co
Enguard Systems, Div Containment Technologies Group
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
JS Humidifiers PLC
Munters Corp, Air Treatment
Newport Electronics
Quality Air Control
Rockwell Automation
Rotronic
Instrument Corp
Sensaphone
Siemens Infrastructure + Cities, Building Technologies Div
Terra Universal
Two Dimensional Instruments LLC
WA Hammond Drierite Co Ltd

For vendor contact information, see Company Directory section.

HUMIDITY CONTROLLERS

Fluid Imaging Technologies

HVAC SYSTEM DESIGN SERVICES

AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
Cleanroom Consulting LLC
El Assocs
Halco Products Co, Div
Hale Engineering Co
Industrial Hydrocarbons Isolation Systems
JS Humidifiers PLC
McGill AirFlow LLC
MultiTherm LLC
NUCON Intl
Practical Technology
Quality Air Control
R Kraft (RKI)
Rockwell Automation
Siemens Infrastructure + Cities, Building Technologies Div
Telstar North America
The Austin Co
Ultrapure Technology
Westfield Sheet Metal Works

HVAC SYSTEMS

AES Clean Technology
American Plastics Technologies - Rao Design Intl
Angstrom Technology
Bry-Air
Buffalo Air Handling
CleanZones LLC
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Isolation Systems
JS Humidifiers PLC
McGill AirFlow LLC
MultiTherm LLC
Munters Corp, Air Treatment
NUCON Intl
Quality Air Control
Rockwell Automation
Siemens Infrastructure + Cities, Building Technologies Div
Strobin Air Corp, Sub Met-Pro Corp
Telstar North America
The Austin Co
Ultrapure Technology
Westfield Sheet Metal Works

INCUBATORS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
CARON Products & Services
Cole-Parmer
Darwin Chambers Co
General Lab & Cleanroom Supply, dba General Lab Supply
Nor-Lake
Powers Scientific
Terra Universal

INSPECTION DEVICES

AC Compacting LLC
American Plastics Technologies - Rao Design Intl
Capmatic Ltd, Headquarters
Certified Comparator Products, Quality Vision Intl
Driam USA

Eriez
Fortress Technology
Global Vision
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
Lenox Instrument Co
Micro Measurement Labs
Natoli Engineering Co
OCS Checkweighers
Optical Gaging Products (OGP), Quality Vision Intl
Particle Measuring Systems
RAM Optical
Instrumentation (RAM)
Rockwell Automation
Siemens Infrastructure + Cities, Building Technologies Div
Spectronics Corp
Victor Intl Mktg
VIEW Micro-Metrology, Quality Vision Intl

INTERCOMS

Halco Products Co, Div
Hale Engineering Co
Liberty Industries

ISO CLASS 1

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Angstrom Technology
Blue Thunder Technologies
Cleanroom Consulting LLC
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
ITW Texwipe
JM Coull
Labconco Corp
Liberty Industries
R Kraft (RKI)

ISO CLASS 2

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Cleanroom Consulting LLC
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
ITW Texwipe
JM Coull
Liberty Industries
R Kraft (RKI)

ISO CLASS 3 (FORMERLY M1.5 OR CLASS 1)

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Angstrom Technology
Blue Thunder Technologies
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
R Kraft (RKI)
STAXS Belgium
Telstar North America
UltraClean Laundry Equipment LLC

ISO CLASS 4 (FORMERLY M2.5 OR CLASS 10)

ACM, Advanced Cleanroom Microclean
AES Clean Technology
Angstrom Supply

Angstrom Technology
Atmos-Tech Industries
Bahnsen Environmental
Specialties, An
EMCOR Co
Blue Thunder Technologies
Cleanroom Consulting LLC
CleanZones LLC
Design Filtration
Enguard Systems, Div Containment Technologies Group
ENV Services
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
STAXS Belgium
Telstar North America
Terra Universal
UltraClean Laundry Equipment LLC

ISO CLASS 5 (FORMERLY M3.5 OR CLASS 100)

ACM, Advanced Cleanroom Microclean
AES Clean Technology
AirClean Systems
Angstrom Supply
Atmos-Tech Industries
Blue Thunder Technologies
CleanZones LLC
Design Filtration
Enguard Systems, Div Containment Technologies Group
ENV Services
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Integrated Containment Systems
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
R Kraft (RKI)
Renco Corp
Simplex Isolation Systems, Div Simplex Strip Doors
STAXS Belgium
Telstar North America
UltraClean Laundry Equipment LLC

ISO CLASS 6 (FORMERLY M4.5 OR CLASS 1,000)

ACM, Advanced Cleanroom Microclean
AES Clean Technology
Angstrom Supply
Angstrom Technology
Atmos-Tech Industries
Bahnsen Environmental
Specialties, An
EMCOR Co
Blue Thunder Technologies
Cleanroom Consulting LLC
CleanZones LLC
Design Filtration

Enguard Systems, Div Containment Technologies Group
ENV Services
FPS Food & Pharma Systems Srl
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Integrated Containment Systems
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
STAXS Belgium
Telstar North America
Terra Universal
UltraClean Laundry Equipment LLC

ISO CLASS 7 (FORMERLY M5.5 OR CLASS 10,000)

ACM, Advanced Cleanroom Microclean
AES Clean Technology
Angstrom Supply
Angstrom Technology
Atmos-Tech Industries
Bahnsen Environmental
Specialties, An
EMCOR Co
Blue Thunder Technologies
Cleanroom Consulting LLC
CleanZones LLC
Design Filtration
Enguard Systems, Div Containment Technologies Group
ENV Services
FPS Food & Pharma Systems Srl
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Integrated Containment Systems
ISO Tech Design
Isolation Systems
ITW Texwipe
JM Coull
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
R Kraft (RKI)
Simplex Isolation Systems, Div Simplex Strip Doors
STAXS Belgium
Telstar North America
Terra Universal
UltraClean Laundry Equipment LLC

ISO CLASS 8 (FORMERLY M6.5 OR CLASS 100,000)

ACM, Advanced Cleanroom Microclean
AES Clean Technology
Angstrom Supply
Angstrom Technology
Atmos-Tech Industries
Bahnsen Environmental
Specialties, An
EMCOR Co
Blue Thunder Technologies
Cleanroom Consulting LLC
CleanZones LLC
Design Filtration

Design Filtration
 Enguard Systems,
 Div Containment
 Technologies Group
 ENV Services
 forteq Nidau AG
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Integrated Containment
 Systems
 ISO Tech Design
 Isolation Systems
 ITW Texwipe
 JM Coull
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 Nicos Group
 R Kraft (RKI)
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 STAXS Belgium
 Telstar North America
 Terra Universal

**ISOLATORS,
 AUTOMATED
 ASEPTIC VIAL
 FILLING**

Atmos-Tech Industries
 Bausch + Stroebel
 Machine Co
 Enguard Systems,
 Div Containment
 Technologies Group
 FPS Food & Pharma
 Systems Srl
 Hutchins & Hutchins
 Integrated Containment
 Systems
 ISO Tech Design
 Key Intl
 Liberty Industries
 MAR Macchine
 Automatische
 Riemplatrici SPA
 Optima Pharma, Optima
 Machinaey Corp
 Rockwell Automation
 STAXS Belgium
 Telstar North America
 Walker Barrier Systems

**JANITORIAL
 SERVICES**

ACM, Advanced
 Cleanroom Microclean
 AmeriVap Systems
 R Kraft (RKI)
 Ultrapure Technology

**LAB COATS,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Qosina
 R Kraft (RKI)
 Renco Corp
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 ValuMax Disposable
 Apparel

**LAB COATS,
 REUSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply

Blue Thunder
 Technologies
 Cole-Parmer
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 Euclid Vidaro Mfg Co
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 R Kraft (RKI)
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 Worklon

**LAB COATS,
 STERILE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 R Kraft (RKI)
 STAXS Belgium
 Ultrapure Technology
Veltek Associates Inc

**LAMINAR-FLOW
 UNITS, HORIZONTAL**

AES Clean Technology
 AirClean Systems
 Angstrom Technology
 Atmos-Tech Industries
 Baker Co, The
 Capmatic Ltd,
 Headquarters
 CleanZones LLC
 Cleatech LLC
 Connecticut Clean
 Room Corp
 Custom Powder
 Systems
 Flow Sciences
 FPS Food & Pharma
 Systems Srl
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 groninger USA LLC
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Hosokawa Micron
 Powder Systems
 Hutchins & Hutchins
 International
 Portland Corp
 Isolation Systems
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 NuAire
 OPTIMA pharma GmbH
 R Kraft (RKI)
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 Telstar North America
 Terra Universal
 Town & Country Plastics
 Ultrapure Technology

**LAMINAR-FLOW
 UNITS, VERTICAL**

AES Clean Technology
 AirClean Systems
 Angstrom Technology
 Atmos-Tech Industries
 Baker Co, The
 Bausch + Stroebel
 Machine Co

Capmatic Ltd,
 Headquarters
 CleanZones LLC
 Cleatech LLC
 Connecticut Clean
 Room Corp
 Custom Powder
 Systems
 Design Filtration
 Enguard Systems,
 Div Containment
 Technologies Group
 Flow Sciences
 FPS Food & Pharma
 Systems Srl
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 groninger USA LLC
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Hosokawa Micron
 Powder Systems
 Hutchins & Hutchins
 Integrated Containment
 Systems
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Kewaunee Scientific Corp
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 NuAire
 OPTIMA pharma GmbH
 R Kraft (RKI)
 Sierra Instruments
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 Telstar North America
 Terra Universal
 Town & Country Plastics
 Ultrapure Technology

**LAMINAR-FLOW
 WORKSTATIONS**

AES Clean Technology
 AirClean Systems
 Angstrom Technology
 Atmos-Tech Industries
 Baker Co, The
 Capmatic Ltd,
 Headquarters
 CleanZones LLC
 Cleatech LLC
 Connecticut Clean
 Room Corp
 Custom Powder
 Systems
 Design Filtration
 Enguard Systems,
 Div Containment
 Technologies Group
 Flow Sciences
 FPS Food & Pharma
 Systems Srl
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Hutchins & Hutchins
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Kewaunee Scientific Corp
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 NuAire
 R Kraft (RKI)
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 Telstar North America

Terra Universal
 Town & Country Plastics
 Ultrapure Technology

**LAMINAR-FLOW
 WORKSTATIONS,
 PORTABLE**

AES Clean Technology
 AirClean Systems
 Angstrom Technology
 Baker Co, The
 Capmatic Ltd,
 Headquarters
 CleanZones LLC
 Cleatech LLC
 Connecticut Clean
 Room Corp
 Design Filtration
 Enguard Systems,
 Div Containment
 Technologies Group
 Flow Sciences
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 HEMCO Corp
 Hutchins & Hutchins
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 NuAire
 Process Tek
 R Kraft (RKI)
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 Telstar North America
 Terra Universal
 Town & Country Plastics
 Ultrapure Technology

LAMPS, UV

Blue Thunder
 Technologies
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Isolation Systems
 Liberty Industries
 Mar Cor Purification
 NuAire
 Spectronics Corp
 Terra Universal
 Xenon Corp

**LAUNDRY
 EQUIPMENT**

American Plastics
 Technologies - Rao
 Design Intl
 Edgeco
 UltraClean Laundry
 Equipment LLC

LAUNDRY SERVICES

STAXS Belgium

LEAK DETECTORS

Agilent Technologies
 Bausch + Stroebel
 Machine Co
 Capmatic Ltd,
 Headquarters
 E Instruments Intl
 ENMET Corp
 Isolation Systems
 Leak Detection Assocs
 Mil-Ram Technology
 Omega Engineering
 optek-Danulat
 Particle Measuring
 Systems
 Process Tek
 PureAire Monitoring
 Systems
 Renco Corp

Restek Corp
 Rockwell Automation
 Sepha Ltd
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 Spectronics Corp
 Victor Intl Mktg
 WILCO AG

LIGHTING

AES Clean Technology
 Angstrom Technology
 Halco Products Co, Div
 Hale Engineering Co
 Isolation Systems
 Kenall Lighting
 Liberty Industries
 Los Angeles Lighting
 Mfg Co
 Terra Universal
 Ultrapure Technology

LOCKERS

Atmos-Tech Industries
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Labconco Corp
 Laminar Flow
 Liberty Industries
 Ultrapure Technology

**MAINTENANCE
 SERVICES**

ACM, Advanced
 Cleanroom Microclean
 American Plastics
 Technologies - Rao
 Design Intl
 Ludeca
 R Kraft (RKI)
 Remi
 Rockwell Automation
 Tri Tool

MARKERS

Hutchins & Hutchins
 Liberty Industries
 STAXS Belgium

**MATERIAL
 HANDLING
 EQUIPMENT**

Advance Tabco
 Blue Thunder
 Technologies
 Central Research Labs
 CSR Pharma Services
 De Dietrich Process
 Systems
 Dematic Corp
 Edgeco
 EHS Solutions LLC
 Erich Industries,
 Performance
 Products Div
 Eriez
 Excalibur Miretti
 Group LLC

Federal Equipment Co

Garvey Corp
 GEA Process
 Engineering, GEA
 Pharma Systems
 HECHT Technologie
 GmbH, Bulk Material
 Handling
 Hurst Corp
 Integrated Containment
 Systems
 Isolation Systems
 Justrite Mfg Co
 Lista Intl Corp
 Material Transfer &
 Storage
 METO Corp
 Molded Fiber Glass
 Tray Co
 New England Machinery
 OCS Checkweighers
 Powder Systems Ltd
 R Kraft (RKI)
 R on I
 Remi

Rite-Hite
 Rockwell Automation
 Rotonics Mfg, RMI-
 Chicago
 Siemens Industry,
 Automation & Drive
 Technologies
 Southworth
 Products Corp
 Terra Universal
Vac-U-Max
 Vibra Screw

**MATS, ADHESIVE,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 ITW Texwipe
 Liberty Industries
 R Kraft (RKI)
 Renco Corp
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

**MATS, ADHESIVE,
 PERMANENT**

Angstrom Supply
 Cole-Parmer
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 Hartco, Cleanroom Div
 Hutchins & Hutchins
 Liberty Industries
 Scientific Materials Corp
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

MATS, FOAM

Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Ultrapure Technology

**MECHANICAL
 DESIGN SERVICES**

A&B Process
 Systems Corp
 AES Clean Technology
 American Plastics
 Technologies - Rao
 Design Intl
 Cleanroom
 Consulting LLC
 MultiTherm LLC
 Practical Technology
 Quality Air Control
 The Austin Co

**METERS, AIRFLOW
 ATLANTIC SCALE CO**

Cole-Parmer
 Control Co
 CSR Pharma Services
 Hoffer Flow Controls
 Hutchins & Hutchins
 Isolation Systems
 Krohne
 Liberty Industries
 MKS Instruments
 Omega Engineering
 Rockwell Automation

For vendor contact information, see Company Directory section.

Siemens Infrastructure +
Cities, Building
Technologies Div
Sierra Instruments
Status Instruments
Terra Universal
Testo
Ultrapure Technology

METERS, HUMIDITY

Atlantic Scale Co
Cole-Parmer
Control Co
CSR Pharma Services
DeltaTRAK
Dickson
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
Lighthouse Worldwide
Solutions
Newport Electronics
Omega Engineering
Rockwell Automation
Siemens Infrastructure +
Cities, Building
Technologies Div
Status Instruments
Terra Universal
Testo
Ultrapure Technology
Vaisala

METERS, TEMPERATURE

Atlantic Scale Co
Badger Meter
Cole-Parmer
Control Co
CSR Pharma Services
DeltaTRAK
Dickson
Ellab
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hampshire
Controls Corp
Isolation Systems
Liberty Industries
Lighthouse Worldwide
Solutions
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Pyromation
Rockwell Automation
Siemens Infrastructure +
Cities, Building
Technologies Div
Status Instruments
Testo
Ultrapure Technology
Vaisala

MICROBIAL SAMPLERS

ACM, Advanced
Cleanroom Microclean
Climet Instruments Co
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Ultrapure Technology

MICROSCOPE EQUIPMENT

Accu-Scope
Bioindustrial Products
Blue Thunder
Technologies
Cole-Parmer
CSR Pharma Services
Electron Microscopy
Sciences
Fabreeka Intl
Fluid Imaging
Technologies

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hirox - USA
Keyence Corp of
America
McCrone
Microscopes &
Accessories

MICROSCOPES

Blue Thunder
Technologies
Cole-Parmer
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hirox - USA
Keyence Corp of
America
McCrone
Microscopes &
Accessories
Natoli Engineering Co
Vision USA,
a Dextrax Co

MINIENVIRONMENTS

AAF Intl, (American
Air Filter)
Baker Co, The
CleanZones LLC
Enguard Systems,
Div Containment
Technologies Group
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
International
Portland Corp
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
PortaFab Cleanroom
Systems
Powers Scientific
Process Tek
R Kraft (RKI)
Sensaphone
Simplex Isolation
Systems, Div Simplex
Strip Doors
STAXS Belgium
Terra Universal
Trax Industrial Products
Corp., Trax CleanRoom
Curtains Div
Ultrapure Technology

MOBILE ROOMS

American Plastics
Technologies - Rao
Design Intl
Atmos-Tech Industries
Design Filtration
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
McGill AirSilence LLC
Nicos Group
PortaFab Cleanroom
Systems
Process Tek
R Kraft (RKI)
Simplex Isolation
Systems, Div Simplex
Strip Doors

Telstar North America
Terra Universal
Ultrapure Technology
Xcellerex

MODULAR ROOMS

A&B Process
Systems Corp
AES Clean Technology
American Plastics
Technologies - Rao
Design Intl
Angstrom Technology
Atmos-Tech Industries
BIOQUELL, Life
Sciences
Cleanroom
Consulting LLC
CleanZones LLC
Darwin Chambers Co
Design Filtration
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
McGill AirSilence LLC
Nicos Group
PortaFab Cleanroom
Systems
R Kraft (RKI)
Simplex Isolation
Systems, Div Simplex
Strip Doors
Telstar North America
Terra Universal
Trax Industrial Products
Corp., Trax CleanRoom
Curtains Div
Ultrapure Technology
Xcellerex

MOPS

ACM, Advanced
Cleanroom Microclean
Systems
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Contec
CSR Pharma Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
Perflex Corp
R Kraft (RKI)
STAXS Belgium
Ultrapure Technology

NOTEBOOKS

ACM, Advanced
Cleanroom Microclean
Systems
Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
R Kraft (RKI)
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology

Ovens

Cole-Parmer
CSR Pharma Services

Darwin Chambers Co
Electron Microscopy
Sciences
ESPEC North America
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Nicos Group
Terra Universal
The Grieve Corp
Werner Mathis USA,
North America

PADS, PRESATURATED

Angstrom Supply
Blue Thunder
Technologies
DelStar Technologies
General Lab &
Liberty Industries
dba General Lab
Supply
Liberty Industries
Lyntech Scientific
STAXS Belgium
Terra Universal

PADS, SPILL- CONTROL

ACM, Advanced
Cleanroom Microclean
Andax Industries LLC
Angstrom Supply
Blue Thunder
Technologies
Contec
DelStar Technologies
Edgeco
Hutchins & Hutchins
STAXS Belgium

PAPER, COMPUTER

Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
ITW Texwipe
Liberty Industries
STAXS Belgium
Terra Universal
Ultrapure Technology

PAPER, COPIER

Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
ITW Texwipe
Liberty Industries
Lyntech Scientific
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology

PAPER, GRAPH

Blue Thunder
Technologies
Connecticut Clean
Room Corp
Control Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Ultrapure Technology

PAPER, RECORDER

Blue Thunder
Technologies
Carltec
Connecticut Clean
Room Corp
Dickson

General Lab &
Cleanroom Supply, dba
General Lab Supply
Liberty Industries
Palmer Wahl
Temperature Products
STAXS Belgium
Terra Universal
Ultrapure Technology

PAPER, WRITING

Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
R Kraft (RKI)
Renco Corp
STAXS Belgium
Terra Universal
Ultrapure Technology

PARTICLE COUNTERS, AIR AND GAS

Angstrom Technology
Blue Thunder
Technologies
Climet Instruments Co
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins
Liberty Industries
Lighthouse Worldwide
Solutions
Masy Systems
optek-Danulat
Particle Measuring
Systems
Particle Sizing Systems
R Kraft (RKI)
Terra Universal
Ultrapure Technology

PARTICLE COUNTERS, LIQUID

Blue Thunder
Technologies
Hutchins & Hutchins
Lighthouse Worldwide
Solutions
Micro Measurement
Labs
Micromeritics
Instrument Corp
optek-Danulat
Particle Measuring
Systems
Particle Sizing Systems
R Kraft (RKI)
Sigma Equipment Corp
Ultrapure Technology

PARTICLE SIZE CLASSIFIERS

Blue Thunder
Technologies
CILAS, DPNSI/II
Federal Equipment Co
Glen Mills
Hosokawa Micron
Powder Systems
Hutchins & Hutchins
Micromeritics
Instrument Corp
Particle Sizing Systems
Powdersize
Sigma Equipment Corp
Sturtevant

PASS-THROUGHS

Angstrom Technology
ASPT
Atmos-Tech Industries
Bahnon Environmental
Specialties, An
EMCOR Co
Baker Co, The

BIOQUELL, Life
Sciences
Central Research Labs
CleanZones LLC
Connecticut Clean
Room Corp
Enguard Systems,
Div Containment
Technologies Group
FPS Food & Pharma
Systems Srl
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Powers Scientific
R Kraft (RKI)
Renco Corp
Simplex Isolation
Systems, Div Simplex
Strip Doors
Telstar North America
Terra Universal
Ultrapure Technology

PENS

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Dickson
General Lab &
Cleanroom Supply, dba
General Lab Supply
Hutchins & Hutchins
Liberty Industries
STAXS Belgium
Ultrapure Technology

PIPING

A&B Process
Systems Corp
Asahi/America
Bergen Industrial
Supply Co
GF Piping Systems
GMP Systems
Swagelok Co
United Industries

PIPING SUPPORTS

A&B Process
Systems Corp
Bergen Industrial
Supply Co
Cole-Parmer
GMP Systems

POWER SUPPLIES

Meech Static
Eliminators USA
MKS Instruments

PREFABRICATED ROOMS

AES Clean Technology
Atmos-Tech Industries
CleanZones LLC
FabOhio
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
McGill AirSilence LLC
PortaFab Cleanroom
Systems
R Kraft (RKI)
Simplex Isolation
Systems, Div Simplex
Strip Doors
Telstar North America
Terra Universal

PREFILTERS

AirClean Systems
 Angstrom Supply
 Atmos-Tech Industries
 CleanZones LLC
 HEMCO Corp
 Isolation Systems
 Keystone Filter,
 Met-Pro Corp
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 Mefiag, Met-Pro Corp
**Meissner Filtration
 Products**
 Pall Life Sciences,
 Biopharmaceuticals
 R Kraft (RKI)
 Status Instruments
 UltraClean Laundry
 Equipment LLC
 Ultrapure Technology
WS Tyler

PRESSURE GAUGES

Ashcroft
 CleanZones LLC
 Cole-Parmer
 Dickson
 E Instruments Intl
 GMP Systems
 Integrated Gas Services
 Isolation Systems
 Masy Systems
 MKS Instruments
 Rockwell Automation
 Siemens Industry,
 Automation & Drive
 Technologies
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 Spirax Sarco
 Top Line Process
 Equipment Co

PRINTED FORMS

Connecticut Clean
 Room Corp
 LGIIntl
 Liberty Industries

PRINTING

Connecticut Clean
 Room Corp
 LGIIntl
 Matthews Intl Corp,
 Matthews Marking
 Systems
 RW Hartnett Co

PUMPS

Capmatic Ltd,
 Headquarters
 Cole-Parmer
 Fluid Metering
 Fristam Pumps USA
 GMP Systems
 Met - Pro Global Pump
 Solutions - Dean
 Pump
 Met - Pro Global Pump
 Solutions - Fybroc
 Met-Pro Global Pump
 Solutions - Sethco
 Omega Engineering
 Piab
 Tuthill Vacuum & Blower
 Systems
 Watson-Marlow Pumps
 Group

**RECORDERS,
 TEMPERATURE
 AND HUMIDITY**

ACR Systems
 BioCold Environmental
 Carltext
 Cole-Parmer
 DeltaTRAK
 Dickson
 E Instruments Intl
 EGC (Environmental
 Growth Chambers)
 Ellab

GMP Systems
 Isolation Systems
 Liberty Industries
 Lighthouse Worldwide
 Solutions
 Masy Systems
 Newport Electronics
 Omega Engineering
 Palmer Wahl
 Temperature Products
 Process Tek
 Rockwell Automation
 Rotronic
 Instrument Corp
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 Terra Universal
 Testo
 Yokogawa Corp of
 America

REFRIGERATORS

Bahnson Environmental
 Specialties, An
 EMCOR Co
 BioCold Environmental
**CARON Products &
 Services**
 Cole-Parmer
 EGC (Environmental
 Growth Chambers)
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Nor-Lake
 Polar Tech Industries
 Powers Scientific
 Terra Universal

RETROFIT SERVICES

Cleanroom
 Consulting LLC
 EGC (Environmental
 Growth Chambers)
 Siemens Industry,
 Automation & Drive
 Technologies
 The Austin Co

ROBOTS

Dematic Corp
 Rockwell Automation
 Stäubli, Robotics
 Zinsser North America

**ROOMS, PORTABLE/
 SOFTWALL**

Angstrom Technology
 Baker Co, The
 CleanZones LLC
 Connecticut Clean
 Room Corp
 Design Filtration
 FabOhio
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Integrated Containment
 Systems
 Isolation Systems
 Laminar Flow
 Liberty Industries
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 McGill AirSilence LLC
 Process Tek
 R Kraft (RKI)
 Simplex Isolation
 Systems, Div Simplex
 Strip Doors
 Telstar North America
 Terra Universal
 Trax Industrial Products
 Corp, Trax CleanRoom
 Curtains Div
 Ultrapure Technology
 Xcellerex

SAFETY CABINETS

Baker Co, The
 Bergen Industrial
 Supply Co
 Cole-Parmer

Edgeco
 Flow Sciences
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 HEMCO Corp
 Isolation Systems
 Justrite Mfg Co
 Kewaunee Scientific Corp
 Labconco Corp
 LM Air Technology,
 Cleanroom & Lab
 Equipment
 Process Tek
 Safety Equipment Corp
 STAXS Belgium
 Telstar North America
 Terra Universal
 Ultrapure Technology

**SAFETY
 ENGINEERING
 SERVICES**

pixon engineering
 Rockwell Automation

SEALANTS

Isolation Systems
 Seal Master Corp

SECURITY SYSTEMS

CustomVault
Natoli Engineering Co
 Rockwell Automation
 Siemens Infrastructure +
 Cities, Building
 Technologies Div

SHELVES

Advance Tabco
 Akro-Mils
 Bergen Industrial
 Supply Co
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 GMP Systems
 Isolation Systems
 Lista Intl Corp
Natoli Engineering Co
 STAXS Belgium
 Ultrapure Technology

**SHOE CLEANERS,
 MANUAL**

Angstrom Technology
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

**SHOE CLEANERS,
 MOTORIZED**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Technology
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 R Kraft (RKI)
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

**SHOE CLEANERS,
 WALK-THROUGH**

CSR Pharma Services
 Liberty Industries
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

**SHOE COVERS,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 FabOhio
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Nicos Group
 Qosina
 R Kraft (RKI)
 Renco Corp
 Ronco
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 ValuMax Disposable
 Apparel

**SHOE COVERS,
 POLYPROPYLENE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Nicos Group
 Renco Corp
 Ronco
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 ValuMax Disposable
 Apparel

**SHOE COVERS,
 REUSABLE**

Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 Euclid Vidaro Mfg Co
 General Lab &
 Cleanroom Supply, dba
 General Lab Supply
 Hutchins & Hutchins
 Liberty Industries
 Ronco
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 Worklon

**SHOE COVERS,
 STERILE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply, dba
 General Lab Supply

Hutchins & Hutchins
 Renco Corp
 Shoe Inn
 STAXS Belgium
 Terra Universal
 Ultrapure Technology

SHOES

Blue Thunder
 Technologies
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Nicos Group
 STAXS Belgium
 Ultrapure Technology

SIGNS

Bergen Industrial
 Supply Co
 Blue Thunder
 Technologies
 Cole-Parmer
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 GMP Labeling
 Liberty Industries

**SLEEVE
 PROTECTORS,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 DelStar Technologies
 Enguard Systems,
 Div Containment
 Technologies Group
 FabOhio
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Qosina
 Renco Corp
 Ronco
 STAXS Belgium
 Ultrapure Technology
 ValuMax Disposable
 Apparel

**SLEEVE
 PROTECTORS,
 REUSABLE**

Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 DelStar Technologies
 Enguard Systems,
 Div Containment
 Technologies Group
 Euclid Vidaro Mfg Co
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Renco Corp
 Ronco
 STAXS Belgium
 Ultrapure Technology

**SLEEVE
 PROTECTORS,
 STERILE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies

Connecticut Clean
 Room Corp
 CSR Pharma Services
 Enguard Systems,
 Div Containment
 Technologies Group
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Renco Corp
 STAXS Belgium
 Ultrapure Technology

**SMOCKS,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 Renco Corp
 STAXS Belgium
 Terra Universal
 Ultrapure Technology
 ValuMax Disposable
 Apparel

SMOCKS, REUSABLE

Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 Euclid Vidaro Mfg Co
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Liberty Industries
 STAXS Belgium
 Ultrapure Technology
 Worklon

SMOCKS, STERILE

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 CSR Pharma Services
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins
 Liberty Industries
 STAXS Belgium
 Ultrapure Technology

SMOKE DETECTORS

CSR Pharma Services
 Siemens Infrastructure +
 Cities, Building
 Technologies Div
 STAXS Belgium
 Ultrapure Technology

SMOKE GUNS

CSR Pharma Services
 Liberty Industries
 STAXS Belgium
 Ultrapure Technology

SMOKE STICKS

CSR Pharma Services
 General Lab &
 Cleanroom Supply, dba
 General Lab Supply
 Liberty Industries
 STAXS Belgium

SPILL-CONTROL AGENTS

Blue Thunder Technologies
Contec

SPONGES

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Contec
Liberty Industries
Perfex Corp
Qosina
STAXS Belgium

SQUEEGEES

Angstrom Supply
Blue Thunder Technologies
Contec
CSR Pharma Services
General Lab & Cleanroom Supply,
dba General Lab Supply
Liberty Industries
Perfex Corp
Remco Products
STAXS Belgium

STATIONERY

Angstrom Supply
Blue Thunder Technologies
ITW Texwipe
Liberty Industries
Lymtech Scientific
STAXS Belgium
Ultrapure Technology

STEAM GENERATORS

AmeriVap Systems
ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
ETC, Sterilization Systems
Isolation Systems
Nicos Group
Primus Sterilizer Co LLC
Reimers Electra Steam
Spirax Sarco
Sussman Electric Boilers
Telstar North America

STERILANTS

Angstrom Supply
Decon Labs
Isolation Systems
Process Tek

STERILIZERS, VHP

ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
BIOQUELL, Life Sciences
Isolation Systems
Mesa Labs
Novatron
Optima Pharma, Optima
Machinaey Corp

STOOLS

Blue Thunder Technologies
General Lab & Cleanroom Supply,
dba General Lab Supply
Hutchins & Hutchins
Isolation Systems
Liberty Industries
Natoli Engineering Co
STAXS Belgium
Ultrapure Technology

STORAGE BINS

Akro-Mils
Angstrom Supply

AZO
Blue Thunder Technologies
CSR Pharma Services
Edgeco
General Lab & Cleanroom Supply,
dba General Lab Supply
GMP Systems
Hurst Corp
Isolation Systems
Liberty Industries
Lista Intl Corp
Molded Fiber Glass
Tray Co

Natoli Engineering Co

Rotonics Mfg, RMI-Chicago
STAXS Belgium
Terra Universal
Ultrapure Technology

STORAGE TANKS

A&B Process Systems Corp
Apache Stainless Equipment Corp
Assmann Corp of America
AZO
CSR Pharma Services
GMP Systems
Isolation Systems
Rotonics Mfg, RMI-Chicago
Town & Country Plastics

SWABS, COTTON

ACM, Advanced Cleanroom Microclean
Allegro Industries
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
General Lab & Cleanroom Supply,
dba General Lab Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
Lymtech Scientific
Qosina
Sonic Packaging Industries
STAXS Belgium
Terra Universal
Ultrapure Technology

SWABS, FOAM

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Angstrom Technology
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
General Lab & Cleanroom Supply,
dba General Lab Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
Lymtech Scientific
Qosina
Renco Corp
Sonic Packaging Industries
STAXS Belgium
Terra Universal
Ultrapure Technology

SWABS, SYNTHETIC FIBER

Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec

General Lab & Cleanroom Supply,
dba General Lab Supply
Hutchins & Hutchins
ITW Texwipe
Liberty Industries
Lymtech Scientific
Qosina
Sonic Packaging Industries
STAXS Belgium
Ultrapure Technology

TABLES

Advance Tabco
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply,
dba General Lab Supply
GMP Systems
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Laminar Flow
Liberty Industries
Natoli Engineering Co
STAXS Belgium
Terra Universal
Ultrapure Technology

TABLETOPS

Advance Tabco
Blue Thunder Technologies
GMP Systems
HEMCO Corp
Hutchins & Hutchins
Isolation Systems
Liberty Industries
STAXS Belgium
Town & Country Plastics

TAGS

Hutchins & Hutchins
LGIntl

TAPE

Blue Thunder Technologies
General Lab & Cleanroom Supply,
dba General Lab Supply
Hutchins & Hutchins
ITW Texwipe
LGIntl
Liberty Industries
STAXS Belgium
Tampar Technologies Ltd
Ultrapure Technology

THERMOMETERS

Ashcroft
Bergen Industrial Supply Co
Burns Engineering
Cole-Parmer
CSR Pharma Services
DeltaTRAK
Dickson
E Instruments Intl
Ellab
General Lab & Cleanroom Supply,
dba General Lab Supply
GMP Systems
Liberty Industries
Marathon Products
Natoli Engineering Co
Newport Electronics
Omega Engineering
Palmer Wahl Temperature Products
Testo
Two Dimensional Instruments LLC
Yokogawa Corp of America

TIMERS

Control Co
CSR Pharma Services
General Lab & Cleanroom Supply,
dba General Lab Supply
Newport Electronics

TOOLS, CLEANROOM

Blue Thunder Technologies
CSR Pharma Services
General Lab & Cleanroom Supply,
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Blue Thunder Technologies
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 Optima Pharma, Optima Machinery Corp
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BAG CLOSURES

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 Spiroflow Systems
 Technoflex

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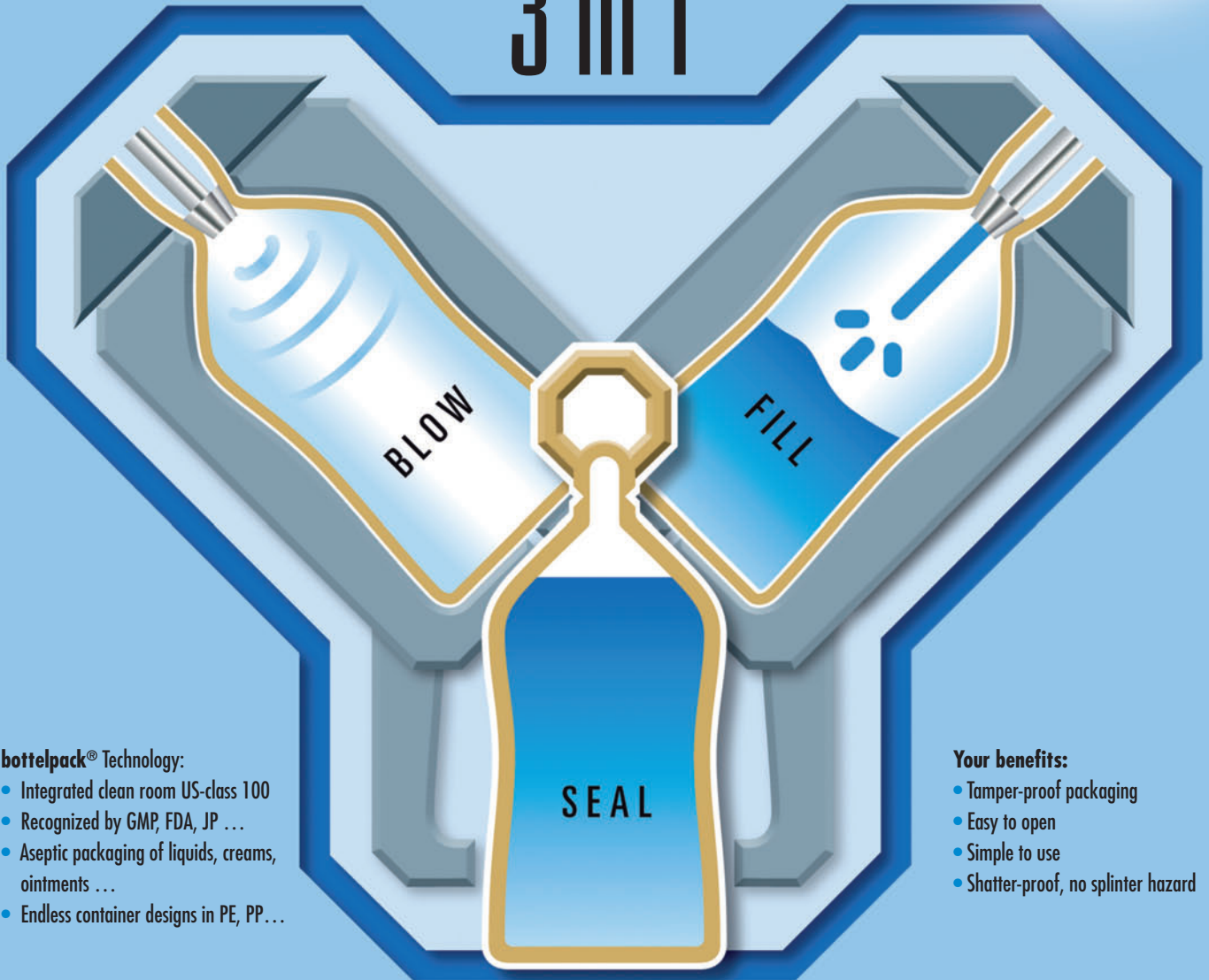
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 McBrady Engineering
 Nedco Conveyor Technologies
 New England Machinery
 NJM Packaging
 Omega Design Corp

Optima Pharma, Optima Machinery Corp
 OPTIMA pharma GmbH
 Union Standard
 Equipment Co

BOTTLE-CLEANING

Bausch + Stroebel Machine Co
 Bausch Advanced Technologies
 Capmatic Ltd, Headquarters
 DJS Enterprises
 GoIndustry DoveBid
 Groninger USA LLC
 JG Finneran Assocs
 Kaps-All Packaging Systems
 Key Intl
 McBrady Engineering
 New England Machinery
 Optima Pharma, Optima Machinery Corp
 Sani-Matic
 Union Standard
 Equipment Co

BOTTLES (SEE ALSO VIALS)

.....
Alpha Packaging
 314-427-4300
 fax 314-427-5445
 marketing@alphap.com
 www.alphap.com
See ad on page 85

American Plastics

.....
 Technologies - Rao
 Design Intl
 Berlin Packaging
 Blue Thunder Technologies
 Drug Plastics & Glass Co
 Gerresheimer AG
 Globe Scientific
 GoIndustry DoveBid
 JG Finneran Assocs
 Qosina
 RAUMEDIC
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, AMBER GLASS

American Plastics Technologies - Rao
 Design Intl
 Berlin Packaging
 Blue Thunder Technologies
 Gerresheimer AG
 GoIndustry DoveBid
 JG Finneran Assocs
 Polar Tech Industries
 Qosina
 TricorBraun
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, CLEAR GLASS

Berlin Packaging
 Blue Thunder Technologies
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerresheimer AG
 GoIndustry DoveBid
 JG Finneran Assocs
 TricorBraun
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, DROPPER

American Plastics Technologies - Rao
 Design Intl

Berlin Packaging
 Blue Thunder Technologies
 Drug Plastics & Glass Co
 Gerresheimer AG
 GoIndustry DoveBid
 JG Finneran Assocs
 Qosina
 TricorBraun
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, FLEXIBLE POLYETHYLENE

.....
Alpha Packaging
 314-427-4300
 fax 314-427-5445
 marketing@alphap.com
 www.alphap.com
See ad on page 85

American Plastics

.....
 Technologies - Rao
 Design Intl
 Berlin Packaging
 Blue Thunder Technologies
 Boscogen
 Drug Plastics & Glass Co
 Gerresheimer AG
 Globe Scientific
 GoIndustry DoveBid
 JG Finneran Assocs
 Qosina
 RAUMEDIC
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, GLASS, PLASTIC-COATED

Berlin Packaging
 Blue Thunder Technologies
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerresheimer AG
 GoIndustry DoveBid
 TricorBraun
 Wheaton Industries, Wheaton Science Packaging

BOTTLES, POLYCARBONATE

American Plastics Technologies - Rao
 Design Intl
 Berlin Packaging
 Blue Thunder Technologies
 Gerresheimer AG
 GoIndustry DoveBid
 RAUMEDIC

BOTTLES, POLYESTER

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Alpha Packaging
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 fax 314-427-5445
 marketing@alphap.com
 www.alphap.com
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American Plastics

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For vendor contact information, see Company Directory section.

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See ad on page 85

American Plastics
Technologies - Rao
Design Intl
Berlin Packaging
Blue Thunder
Technologies
Gerresheimer AG
Globe Scientific
Golndustry DoveBid
JG Finneran Assocs
Parkway Plastics
Qosina
RAUMEDIC
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

BOTTLES, POLYVINYL CHLORIDE

Berlin Packaging
Blue Thunder
Technologies
Gerresheimer AG
Golndustry DoveBid
RAUMEDIC

BOTTLES, SERUM (VIALS)

American Plastics
Technologies - Rao
Design Intl
Berlin Packaging
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerresheimer AG
Globe Scientific
Golndustry DoveBid
Topas Advanced Polymers
TricorBraun
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging

BOXES, MOLDED PLASTIC (STOCK)

Alpha Packaging
314-427-4300
fax 314-427-5445
marketing@alphap.com
www.alphap.com

See ad on page 85

American Plastics
Technologies - Rao
Design Intl
Golndustry DoveBid
Rotronics Mfg, RMI-
Chicago

BOXES, SET-UP

Golndustry DoveBid
Massman Automation
Designs LLC, PSA Div

BUNDLING MACHINES

DJS Enterprises
Fraun Industries
Golndustry DoveBid
MG America
Union Standard
Equipment Co

CAN CLOSING EQUIPMENT

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Headquarters

DJS Enterprises
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Process Tek
Union Standard
Equipment Co

CAN FEEDING EQUIPMENT

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Headquarters
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Garvey Corp
Golndustry DoveBid
Kaps-All Packaging
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Keith Machinery Corp
Process Tek

CAN FILLING EQUIPMENT

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Kaps-All Packaging
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Keith Machinery Corp
Krohne
Oden Corp
Per-Fil Industries
Pope Scientific
Process Tek
Union Standard
Equipment Co

CANS, STEEL

Berlin Packaging
Golndustry DoveBid
Pope Scientific
TricorBraun

CAP SEALERS

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Machine Co
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Fraun Industries
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groninger USA LLC
Kaps-All Packaging
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Kebby Industries
Keith Machinery Corp
Mesa Labs
Optima Pharma, Optima
Machinery Corp
TricorBraun
Union Standard
Equipment Co
Watson-Marlow
Pumps Group

CAP SEALERS, INNER SEAL

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Blue Thunder
Technologies
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Federal Equipment Co
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Kaps-All Packaging
Systems
Kebby Industries
Keith Machinery Corp
Optima Pharma, Optima
Machinery Corp
TricorBraun
Union Standard
Equipment Co

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Berlin Packaging
Blue Thunder
Technologies
Capmatic Ltd,
Headquarters
Constantia Flexibles
DJS Enterprises
Enercon Industries Corp
Federal Equipment Co
Golndustry DoveBid
Kaps-All Packaging
Systems
Kebby Industries
Optima Pharma, Optima
Machinery Corp
TricorBraun
Union Standard
Equipment Co

CAP TORQUE ANALYZERS

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Mesa Labs
Optima Pharma, Optima
Machinery Corp
Pharmatron
Process Tek

CAPPING MACHINERY

Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
Capmatic Ltd,
Headquarters
CroPharm
DJS Enterprises
Equipment Technology Co
ESS Technologies
Federal Equipment Co
Fraun Industries
Golndustry DoveBid
groninger USA LLC
IntelliTECH
Kaps-All Packaging
Systems
Kebby Industries
Keith Machinery Corp
Key Intl
M&O Perry Industries
MAR Macchine
Automatiche
Riempricci SPA
Mesa Labs
New England Machinery
Newman Labeling
Systems
Optima Pharma, Optima
Machinery Corp
Union Standard
Equipment Co
Watson-Marlow
Pumps Group

CAPS, CHILD-RESISTANT

Berlin Packaging
Eco Groupe
Gerresheimer AG
Golndustry DoveBid
Kaps-All Packaging
Systems
Mesa Labs
TricorBraun

CAPS, LINERS

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Constantia Flexibles
Gerresheimer AG
Golndustry DoveBid
JG Finneran Assocs
Parkway Plastics

Pawling Engineered
Products
TricorBraun
WL Gore & Assocs,
Gore PharmBIO
Products

CAPS, METAL

Berlin Packaging
Flex Products
Golndustry DoveBid
JG Finneran Assocs
Parkway Plastics
TricorBraun

CAPS, MOLDED PLASTIC

Berlin Packaging
Eco Groupe
Flex Products
Globe Scientific
Golndustry DoveBid
JG Finneran Assocs
Parkway Plastics
Qosina
RAUMEDIC
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

CAPS, OVERCAPS

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Flex Products
Gerresheimer AG
Golndustry DoveBid
TricorBraun

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Enercon Industries Corp
Gerresheimer AG
Golndustry DoveBid
Kaps-All Packaging
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Qosina
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

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ACG North America LLC
Bosch Packaging
Technology, Pharma
CroPharm
DJS Enterprises
Enguard Systems,
Div Containment
Technologies Group
Equipment Technology Co
Federal Equipment Co
216-271-3500
fax 216-271-5210
pharmaceutical@fedequip.com
www.fedequip.com

See ad on page 39

Fraun Industries
Golndustry DoveBid
Keith Machinery Corp
Key Intl

MG America

Qualicaps
Romaco Pharmatechnik
GmbH
Schaefer Technologies
Torpac
Union Standard
Equipment Co

CAPSULE FILLING AND COUNTING MACHINES

ACG North America LLC
American Plastics
Technologies - Rao
Design Intl
Batching Systems

Bosch Packaging
Technology, Pharma
C & C Corp
Capmatic Ltd,
Headquarters
DJS Enterprises
Equipment Technology Co
Federal Equipment Co
Fraun Industries
Golndustry DoveBid
Keith Machinery Corp
Key Intl
Kirby Lester LLC
LabX (Auctions)
MG America
Qualicaps
Schaefer Technologies
Torpac
Union Standard
Equipment Co

CAPSULE MANUFACTURING EQUIPMENT

Advance Engineering &
Mfg Co
American Plastics
Technologies - Rao
Design Intl
C & C Corp
DJS Enterprises
Federal Equipment Co
Golndustry DoveBid
Keith Machinery Corp
MG America
Qualicaps
Torpac
Union Standard
Equipment Co

CAPSULE PRINTING EQUIPMENT

AC Compacting LLC
Ackley Machine Corp
Control Micro Systems
DJS Enterprises
Efficient Automated
Machine Corp
Federal Equipment Co
Golndustry DoveBid
Keith Machinery Corp
Matthews Intl Corp,
Matthews Marking
Systems
Qualicaps
RW Hartnett Co
Videojet Technologies

CAPSULE SEALING EQUIPMENT

Capsugel
DJS Enterprises
Enguard Systems,
Div Containment
Technologies Group
Federal Equipment Co
Golndustry DoveBid
Keith Machinery Corp
MAR Macchine
Automatiche
Riempricci SPA
MG America
Qualicaps
Schaefer Technologies
Union Standard
Equipment Co

CAPSULES, HARD SHELL

CapsCanada Corp
Capsugel
CroPharm
DJS Enterprises
Golndustry DoveBid
Qualicaps
Suheung America
Corp
Torpac

CARBOYS

Golndustry DoveBid
TricorBraun

CARTONING MACHINES

ACG North America LLC
Capmatic Ltd,
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Dividella, Pharma
Technology Solutions
DJS Enterprises
Econocorp
ESS Technologies
Federal Equipment Co
Fraun Industries
Golndustry DoveBid
Key Intl
LabX (Auctions)
Massman Automation
Designs LLC, PSA Div
MG America
Oyster USA
Prodo-Pak Corp
Romaco Pharmatechnik
GmbH
Uhlmann
Union Standard
Equipment Co

CARTONS, FOLDING FIBER

3C Packaging
Golndustry DoveBid
Keystone Folding Box Co
Platinum Press
RONDO-PAK

CARTONS, FOLDING PAPERBOARD

Platinum Press
RONDO-PAK
Schober USA

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ACG North America LLC
DJS Enterprises
Econocorp
ESS Technologies
Federal Equipment Co
Fraun Industries
Golndustry DoveBid
Griffin-Rutgers Co
Keith Machinery Corp
Massman Automation
Designs LLC, PSA Div
MG America
Multivac, Medical
NJM Packaging
Oyster USA
Pearson Packaging
Systems
Romaco Pharmatechnik
GmbH
Schneider Packaging
Equipment Co
Uhlmann
Union Standard
Equipment Co

CLINICAL TRIALS PACKAGING

AC Compacting LLC
AcuTemp Thermal
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Dividella, Pharma
Technology Solutions
Golndustry DoveBid
groninger USA LLC
Hurst Corp
Kirby Lester LLC
Rockwell Automation
Sepha Ltd
Wheaton Industries,
Wheaton Science
Packaging

CLOSURES, SECONDARY

Berlin Packaging
Flex Products
Golndustry DoveBid
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging

COIL, COTTON, RAYON, OR POLYESTER
Berlin Packaging
Golndustry DoveBid

COLLATING SYSTEMS (FOR CARTONS, BOTTLES, ETC.)
ABC Packaging
Machine Corp
Dividella, Pharma
Technology Solutions
DJS Enterprises
Econocorp
ESS Technologies
Garvey Corp
Golndustry DoveBid
MG America
Uhlmann

CONTAINER CLEANING EQUIPMENT
American Plastics
Technologies - Rao
Design Intl
Capmatic Ltd,
Headquarters
Golndustry DoveBid
Kaps-All Packaging
Systems
McBrady Engineering
Micro Measurement
Labs
New England Machinery
Sani-Matic

CONTROL SYSTEMS, PACKAGING
American Plastics
Technologies - Rao
Design Intl
Durex Industries
FSI Technologies
Garvey Corp
Global Vision
Golndustry DoveBid
NJM Packaging
OCS Checkweighers
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies
The Austin Co
Tri-Tronics Co
Uhlmann

COTTONING MACHINES
American Plastics
Technologies - Rao
Design Intl
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Federal Equipment Co
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Keith Machinery Corp
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NJM Packaging
Union Standard
Equipment Co

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Federal Equipment Co
FSI Technologies
Global Vision
Golndustry DoveBid
Kirby Lester LLC
Newport Electronics
NJM Packaging
Tri-Tronics Co

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MAR Macchine
Automatiche
Riempitrici SPA
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Testing Machines
Wheaton Industries,
Wheaton Science
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Golndustry DoveBid
Schaefer Technologies
Sepha Ltd
Service Industries

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Kebby Industries
MicroLiter Analytical
Supplies
Wheaton Industries,
Wheaton Science
Packaging

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PlusPharma
Terra Universal
TricorBraun
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Drierite Co Ltd
WL Gore & Assocs,
Gore PharmBIO
Products

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3C Packaging
Golndustry DoveBid
Schober USA

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JG Finneran Assocs
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Qosina
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

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Golndustry DoveBid

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Golndustry DoveBid
MO Industries
Pope Scientific

DRUMS, COMPOSITE
Golndustry DoveBid
MO Industries

DRUMS, FLUOROPOLYMER-LINED
Golndustry DoveBid
Pope Scientific

DRUMS, METAL
Apache Stainless
Equipment Corp
Black Forest Container
Systems LLC
Briggs of Burton
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METO Corp
MO Industries
Pope Scientific
Process Solutions
TricorBraun

DRUMS, PLASTIC
Assmann Corp of
America
Golndustry DoveBid
Process Solutions
Rotonics Mfg,
RMI-Chicago
Snyder Industries, Dry
Handling & IBC Div
Town & Country Plastics
TricorBraun

FILL-BY-WEIGHT SYSTEMS
AC Compacting LLC
Atlantic Scale Co
AZO
Batching Systems
Bausch + Stroebel
Machine Co
Bosch Packaging
Technology, Pharma
Custom Metalcraft
DJS Enterprises
Federal Equipment Co
FPS Food & Pharma
Systems Srl
Golndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Hosokawa Micron
Powder Systems
Material Transfer &
Storage
National Bulk
Equipment
OCS Checkweighers
Oden Corp
Optima Pharma,
Optima
Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Rice Lake Weighing
Systems
Specialty Equipment
Spee-Dee Packaging
Machinery
Spiroflow Systems
Vac-U-Max

FILLING MACHINES, CREAMS AND PASTES
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Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters
CroPharm
DJS Enterprises
Equipment
Technology Co
ESS Technologies
Federal Equipment Co
Filamatic, National
Instrument LLC
Frain Industries
Golndustry DoveBid
groninger USA LLC
IntelliTECH
Kaps-All Packaging
Systems
Keith Machinery Corp
Kemwall Dists Ltd
Key Intl
NETZSCH Premier
Technologies
LLC, Grinding &
Dispensing
Oden Corp
Oyster USA

Per-Fil Industries
Prodo-Pak Corp
Qualicaps
Specialty Equipment
Union Standard
Equipment Co
Watson-Marlow Pumps
Group

FILLING MACHINES, DRY POWDER BY WEIGHT
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Aspect Automation
Atlantic Scale Co
AZO
Batching Systems
Bausch + Stroebel
Machine Co
Capmatic Ltd,
Headquarters
Custom Powder
Systems
DJS Enterprises
Equipment Technology Co
ESS Technologies
Federal Equipment Co
FPS Food & Pharma
Systems Srl
Frain Industries
Golndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Hosokawa Micron
Powder Systems
Keith Machinery Corp
Loma Systems / Lock
Inspection Systems
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Material Transfer &
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Molins Technologies
National Bulk
Equipment
NJM Packaging
OCS Checkweighers

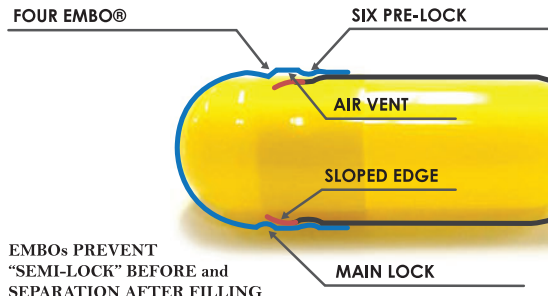
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Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Qualicaps
Schenck Process
Specialty Equipment
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Machinery
Spiroflow Systems
Union Standard
Equipment Co
Vac-U-Max

FILLING MACHINES, DRY PRODUCTS
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AZO
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Technology, Pharma
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Headquarters
Custom Powder
Systems
DJS Enterprises
Eriez
Federal Equipment Co
Frain Industries
Golndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Hosokawa Micron
Powder Systems
ILAPAK
Keith Machinery Corp
Kemwall Dists Ltd
LabX (Auctions)
Loma Systems / Lock
Inspection Systems

MAR Macchine
Automatiche
Riempitrici SPA
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Storage
MG America
Molins Technologies
National Bulk
Equipment
NJM Packaging
OK Intl Group,
OK Sealer
Optima Pharma, Optima
Machinery Corp
Oyster USA
Per-Fil Industries
Prodo-Pak Corp
Qualicaps
Schenck Process
Specialty Equipment
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Machinery
Spiroflow Systems
Union Standard
Equipment Co
Vac-U-Max

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Auto-Mate
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Technologies
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 Frain Industries
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 Groninger USA LLC
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 Kaps-All Packaging
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 Keith Machinery Corp
 Kemwall Distrs Ltd
 LabX (Auctions)
 M&O Perry Industries
 MAR Macchine
 Automatische
 Riemptitrici SPA
 Molins Technologies
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Oden Corp
 OK Intl Group,
 OK Sealer
 Optima Pharma, Optima
 Machinery Corp
 OPTIMA pharma GmbH
 Oystar USA
 Pall Life Sciences,
 Biopharmaceuticals
 PennTech Machinery
 Corp, The PennTech
 Group
 Pope Scientific
 Prodo-Pak Corp
Qualicaps
 Rice Lake Weighing
 Systems
 Romaco Pharmatechnik
 GmbH
Rommelag USA
 Specialty Equipment
 Union Standard
 Equipment Co
 Weiler Engineering

FILLING MACHINES, VACUUM

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 Machine Corp
 Frain Industries
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 Groninger USA LLC
 Keith Machinery Corp
 MAR Macchine
 Automatische
 Riemptitrici SPA
 NJM Packaging
 Optima Pharma, Optima
 Machinery Corp
 OPTIMA pharma GmbH
 Spiroflow Systems
 Union Standard
 Equipment Co
Vac-U-Max
 Watson-Marlow
 Pumps Group

FILM, HEAT SHRINKABLE

Bilcare Research
 DJS Enterprises
 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp

FILM, HEAT SHRINKABLE PVC

Bilcare Research
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 Klockner Pentaplast
 KNF Corp

FILM, POLYPROPYLENE

Bilcare Research
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 Constantia Flexibles

DelStar Technologies
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 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp
 Oliver-Tolas Healthcare
 Packaging
 Oystar USA
 Prodo-Pak Corp
 Technoflex
 Tekni-Plex

FILM, PVC

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 Constantia Flexibles
 DJS Enterprises
 FabOhio
 GolIndustry DoveBid
 Key Intl
 Klockner Pentaplast
 KNF Corp
 RAUMEDIC
 Tekni-Plex
 Trax Industrial
 Products Corp, Trax
 CleanRoom
 Curtains Div

FILMS, BARRIER, COATED AND LAMINATED

Bilcare Research
 Bilcare Research
 Catty Corp
 Constantia Flexibles
 DelStar Technologies
 FabOhio
 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp
 Oliver-Tolas Healthcare
 Packaging
 Tekni-Plex
 Topas Advanced
 Polymers

FILMS, BARRIER, LAMINATED

Bilcare Research
 Catty Corp
 Constantia Flexibles
 DelStar Technologies
 DJS Enterprises
 FabOhio
 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp

FILMS, BARRIER, PVC COATED

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 Constantia Flexibles
 FabOhio
 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp
 Tekni-Plex

FILMS, BARRIER, PVDC COATED AND LAMINATED

Bilcare Research
 Catty Corp
 Constantia Flexibles
 GolIndustry DoveBid
 Klockner Pentaplast
 KNF Corp
 Tekni-Plex

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Catty Corp
 DelStar Technologies
 DJS Enterprises
 GolIndustry DoveBid
 Klockner Pentaplast
 LGIntl
 Markem-Imaje,
 Dover Div
 Matthews Intl Corp,
 Matthews Marking
 Systems

FLEXIBLE STERILE PACKAGING

Catty Corp
 Constantia Flexibles

DelStar Technologies
 GolIndustry DoveBid
 KNF Corp
 Lonza
 Oliver-Tolas Healthcare
 Packaging
 Oystar USA
 Prodo-Pak Corp
 Technoflex
 Tekni-Plex

FLUOROPOLYMER BOTTLES

Saville Corporation

FOAM

Adhesives Research
 Blue Thunder
 Technologies
 GolIndustry DoveBid
 Polar Tech Industries

FORM-FILL-SEAL MACHINES

American-New-Long
 Aspect Automation
 Batching Systems
 Capmatic Ltd,
 Headquarters
 Dalemark Industries
 DJS Enterprises
 Eriez

Federal Equipment Co

Frain Industries
 General Packaging
 Equipment Co
 GolIndustry DoveBid
 Herrmann Ultrasonics
 LabX (Auctions)

MG America

Molins Technologies
 Multivac, Medical
 Oystar USA
 Process Tek
 Prodo-Pak Corp
 Rennco LLC, Pro Mach
 Sepha Ltd
 Union Standard
 Equipment Co
 Weiler Engineering

GELATIN CAPSULES, LIQUID FILLED

Capsugel
 DJS Enterprises
 GolIndustry DoveBid
MG America

Patheon
 919-226-3200
 fax 919-474-2269
 doingbusiness@patheon.com
 www.patheon.com

See ad on page 121

 Qualicaps

HEAT SEAL PACKAGING MACHINES

American-New-Long
 Aspect Automation
 Auto-Mate
 Technologies LLC
 Catty Corp
 DJS Enterprises
 Enercon Industries Corp
 General Packaging
 Equipment Co
 GolIndustry DoveBid
 IntelliTECH
 Keith Machinery Corp
 KNF Corp
 Molins Technologies
 PDC Intl Corp
 Rennco LLC, Pro Mach
 Romaco Pharmatechnik
 GmbH
 Testing Machines
 Union Standard
 Equipment Co

HEAT TUNNELS

American Plastics
 Technologies - Rao
 Design Intl
 Bausch + Stroebel
 Machine Co
 Bosch Packaging
 Technology, Pharma
 DJS Enterprises
 Equipment Technology Co
Federal Equipment Co
 Frain Industries
 GolIndustry DoveBid
 Groninger USA LLC
 Keith Machinery Corp
 Optima Pharma, Optima
 Machinery Corp
 PDC Intl Corp
 Union Standard
 Equipment Co

HOSE, PLASTIC

AdvantaPure
 Geci Tech LLC
 GMP Systems
 GolIndustry DoveBid
 National Bulk
 Equipment
 WL Gore & Assocs,
 Gore PharmBIO
 Products

HOT STAMPING FOIL

Catty Corp
 Dalemark Industries
 DJS Enterprises
 Gem Marking & Coding
 GolIndustry DoveBid
 Griffin-Rutgers Co

INK, FDA-LISTED

Catty Corp
 GolIndustry DoveBid
 Markem-Imaje,
 Dover Div
 Videojet Technologies

INK, NONTOXIC

Catty Corp
 Gem Marking & Coding
 GolIndustry DoveBid
 Markem-Imaje,
 Dover Div
 Squid Ink Mfg

INSERTERS, BUTYL STOPPER

Capmatic Ltd,
 Headquarters
Federal Equipment Co
 GolIndustry DoveBid

INSERTS/OUTSERTS

3C Packaging
 Capmatic Ltd,
 Headquarters
 DJS Enterprises
 G&K-Vijuk Intl
 Global Vision
 GolIndustry DoveBid
 MNEMONICS
 Platinum Press
 Plymouth Printing Co

INSPECTION DEVICES

AC Compacting LLC
 Ackley Machine Corp
 Bosch Inspection
 Technology
 C & C Corp
 Capmatic Ltd,
 Headquarters
 Complete Inspection
 Systems
 DIR Technologies
 DJS Enterprises
 Driam USA
 E Instruments Intl
 Eriez
 Fortress Technology
 FSI Technologies
 Global Vision
 GolIndustry DoveBid
 I Holland Ltd

ISRA Surface Vision,
 Sub ISRA Vision AG
 Kaps-All Packaging
 Systems
 Kirby Lester LLC
 LabX (Auctions)
 Lenox Instrument Co
 Loma Systems / Lock
 Inspection Systems
 MNEMONICS
 Nikka Densock USA
 NJM Packaging
 Optel Vision
 Prodetec
 Product Identification &
 Processing Systems

Qualicaps

RAM Optical
 Instrumentation (RAM)
 Rockwell Automation
 Sepha Ltd
 Systech Intl
 Tri-Tronics Co
 Victor Intl Mktg
 VISIONx

JAR PRINTING EQUIPMENT

Control Micro Systems
 Dalemark Industries
 GolIndustry DoveBid
 Griffin-Rutgers Co
 Keith Machinery Corp
 Label Mill
 Videojet Technologies

JARS, GLASS

Gerresheimer AG
 GolIndustry DoveBid
 JG Finneran Assocs
 TricorBraun

JARS, PLASTIC

Drug Plastics & Glass Co
 Flex Products
 Gerresheimer AG
 Globe Scientific
 GolIndustry DoveBid
 JG Finneran Assocs
 Parkway Plastics
 Qosina
 Topas Advanced
 Polymers
 TricorBraun

LABEL CODING EQUIPMENT

BellatRx
 Blue Thunder
 Technologies
 Capmatic Ltd,
 Headquarters
 Complete Inspection
 Systems
 Control Micro Systems
 CyberMetrics Corp,
 Quality Mgmt Div and
 Asset Mgmt Div
 Dalemark Industries
 DJS Enterprises
 Gem Marking & Coding
 GolIndustry DoveBid
 Griffin-Rutgers Co
 Kaps-All Packaging
 Systems
 Keith Machinery Corp
 Label Mill
 Lion Precision
 Markem-Imaje,
 Dover Div
 Multivac, Medical
 NJM Packaging
 PDC Intl Corp
 Re-Pack
 Rice Lake Weighing
 Systems
 Tharo Systems
 Videojet Technologies
 Weber Packaging
 Solutions

LABEL GLUING EQUIPMENT

BellatRx
 Blue Thunder
 Technologies
 DJS Enterprises
 GolIndustry DoveBid
 Keith Machinery Corp
 NJM Packaging

LABEL INSPECTION EQUIPMENT

Auto-Mate
 Technologies LLC
 Bausch Advanced
 Technologies
 BellatRx
 Blue Thunder
 Technologies
 Bosch Inspection
 Technology
 Capmatic Ltd,
 Headquarters
 Complete Inspection
 Systems

LABEL DATING EQUIPMENT

Auto-Mate
 Technologies LLC
 BellatRx
 Blue Thunder
 Technologies
 Capmatic Ltd,
 Headquarters
 Control Micro Systems
 Dalemark Industries
 DJS Enterprises
 GolIndustry DoveBid
 Griffin-Rutgers Co
 Kaps-All Packaging
 Systems
 Keith Machinery Corp
 Label Mill
 Markem-Imaje,
 Dover Div
 Matthews Intl Corp,
 Matthews Marking
 Systems
 Multivac, Medical
 NJM Packaging
 Re-Pack
 Rice Lake Weighing
 Systems
 Tharo Systems
 Videojet Technologies
 Weber Packaging
 Solutions

LABEL DISPENSING EQUIPMENT

Auto-Mate
 Technologies LLC
 Bausch + Stroebel
 Machine Co
 Bausch Advanced
 Technologies
 BellatRx
 Blue Thunder
 Technologies
 Capmatic Ltd,
 Headquarters
 CyberMetrics Corp,
 Quality Mgmt Div and
 Asset Mgmt Div
 Dalemark Industries
 DJS Enterprises
 Equipment Technology Co
 GMP Labeling
 GolIndustry DoveBid
 Kaps-All Packaging
 Systems
 Keith Machinery Corp
 Label Mill
 Lion Precision
 Markem-Imaje,
 Dover Div
 Multivac, Medical
 NJM Packaging
 PDC Intl Corp
 Re-Pack
 Rice Lake Weighing
 Systems
 Tharo Systems
 Videojet Technologies
 Weber Packaging
 Solutions

LABEL GLUING EQUIPMENT

BellatRx
 Blue Thunder
 Technologies
 DJS Enterprises
 GolIndustry DoveBid
 Keith Machinery Corp
 NJM Packaging

LABEL INSPECTION EQUIPMENT

Auto-Mate
 Technologies LLC
 Bausch Advanced
 Technologies
 BellatRx
 Blue Thunder
 Technologies
 Bosch Inspection
 Technology
 Capmatic Ltd,
 Headquarters
 Complete Inspection
 Systems

DJS Enterprises
FSI Technologies
Global Vision
GoIndustry DoveBid
ISRA Surface Vision,
Sub ISRA Vision AG
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Label Vision Systems
(LVS)
MNEMONICS
NJM Packaging
Optel Vision
Optima Pharma, Optima
Machinery Corp
Re-Pack
Tri-Tronics Co
Union Standard
Equipment Co
Web Techniques

**LABEL REMOVAL
EQUIPMENT**

Blue Thunder
Technologies
GoIndustry DoveBid
Hurst Corp
Keith Machinery Corp

**LABELING
EQUIPMENT,
DIRECT TRANSFER**

Accraply, Div
Barry-Wehmiller Co
American Plastics
Technologies - Rao
Design Intl
Auto-Mate
Technologies LLC
Bausch + Stroebel
Machine Co
BellatRx
Capmatic Ltd,
Headquarters
Dalemark Industries
DJS Enterprises
Federal Equipment Co
Frain Industries
GoIndustry DoveBid
Griffin-Rutgers Co
groninger USA LLC
Kaps-All
Packaging Systems
Keith Machinery Corp
Label Mill
LabX (Auctions)
Markem-Imaje,
Dover Div
Multivac, Medical
Newman Labeling
Systems
NJM Packaging
Optima Pharma, Optima
Machinery Corp
Re-Pack
Tharo Systems
Union Standard
Equipment Co
Videojet Technologies
Weber Packaging
Solutions

**LABELING
MACHINERY**

Accraply, Div
Barry-Wehmiller Co
Auto-Mate
Technologies LLC
Automation Systems
Interconnect
Capmatic Ltd,
Headquarters
Dalemark Industries
DJS Enterprises
Federal Equipment Co
Gem Marking & Coding
Griffin-Rutgers Co
Kaps-All Packaging
Systems
Lion Precision
Multivac, Medical
Newman Labeling
Systems
Optima Pharma, Optima
Machinery Corp

PDC Intl Corp
Re-Pack
Tharo Systems
Videojet Technologies
Weber Packaging
Solutions

LABELS, CLINICAL

Citation Clinical
Labeling Systems
Clinical Systems
Global Vision
GoIndustry DoveBid
Schreiner MediPharm
Weber Packaging
Solutions

**LABELS, CLINICAL
BOOKLET LABELS**

ATL (Ad Tape & Label)
Citation Clinical
Labeling Systems
Clinical Systems
Schreiner MediPharm
Weber Packaging
Solutions

**LABELS,
COMPUTER-CODED**

Blue Thunder
Technologies
Citation Clinical
Labeling Systems
Clinical Systems
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
GoIndustry DoveBid
LGIntl
Platinum Press
Product Identification &
Processing Systems
Schreiner MediPharm
Videojet Technologies
Weber Packaging
Solutions

LABELS, FOIL

ATL (Ad Tape & Label)
Blue Thunder
Technologies
Citation Clinical
Labeling Systems
Communication
Graphics
GoIndustry DoveBid
LGIntl
Plymouth Printing Co
Schreiner MediPharm
Tamper Technologies Ltd
TricorBraun
Weber Packaging
Solutions

**LABELS,
HEAT-SHRINKABLE**

Blue Thunder
Technologies
GoIndustry DoveBid
Klockner Pentaplast
LGIntl
Plymouth Printing Co
TricorBraun

**LABELS,
HOT-STAMPED**

Auto-Mate
Technologies LLC
Blue Thunder
Technologies
GoIndustry DoveBid
Kaps-All Packaging
Systems
LGIntl
Plymouth Printing Co
TricorBraun
Weber Packaging
Solutions

LABELS, METAL

Blue Thunder
Technologies
GoIndustry DoveBid

LGIntl
Plymouth Printing Co
TricorBraun
Weber Packaging
Solutions

LABELS, PAPER

3C Packaging
Akro-Mils
ATL (Ad Tape & Label)
Auto-Mate
Technologies LLC
Blue Thunder
Technologies
Citation Clinical
Labeling Systems
Communication
Graphics
GMP Labeling
GoIndustry DoveBid
Kaps-All Packaging
Systems
Label Mill
LGIntl
Markem-Imaje,
Dover Div
Platinum Press
Plymouth Printing Co
Product Identification &
Processing Systems
Rice Lake Weighing
Systems
Schreiner MediPharm
Tharo Systems
TricorBraun
Weber Packaging
Solutions

**LABELS,
PLASTIC SLEEVE**

Akro-Mils
Blue Thunder
Technologies
Communication
Graphics
GoIndustry DoveBid
Klockner Pentaplast
Platinum Press
TricorBraun

**LABELS,
PRESSURE-
SENSITIVE**

3C Packaging
Adhesives Research
American Plastics
Technologies - Rao
Design Intl
ATL (Ad Tape & Label)
Auto-Mate
Technologies LLC
Blue Thunder
Technologies
Capmatic Ltd,
Headquarters
Citation Clinical
Labeling Systems
Communication
Graphics
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
GMP Labeling
GoIndustry DoveBid
Griffin-Rutgers Co
groninger USA LLC
Kaps-All Packaging
Systems
Keith Machinery Corp
Klockner Pentaplast
Label Mill
LGIntl
Markem-Imaje,
Dover Div
MicroLITER Analytical
Supplies
NJM Packaging
Plymouth Printing Co
Product Identification &
Processing Systems
Schreiner MediPharm
Tamper Technologies Ltd
Tharo Systems
TricorBraun
Videojet Technologies
Weber Packaging
Solutions

LABELS, SHIPPING

American Plastics
Technologies - Rao
Design Intl
ATL (Ad Tape & Label)
Communication
Graphics
GoIndustry DoveBid
Label Mill
LGIntl
Polar Tech Industries
Product Identification &
Processing Systems
Tharo Systems
Weber Packaging
Solutions

**LABELS, SILK
SCREEN-PRINTED**

Communication
Graphics
GoIndustry DoveBid
LGIntl
Platinum Press
Plymouth Printing Co
TricorBraun

**LABELS,
TAMPER-EVIDENT**

3C Packaging
ATL (Ad Tape & Label)
Auto-Mate
Technologies LLC
Capmatic Ltd,
Headquarters
Citation Clinical
Labeling Systems
Clinical Systems
Communication
Graphics
Frain Industries
GMP Labeling
GoIndustry DoveBid
Kaps-All Packaging
Systems
Klockner Pentaplast
Label Mill
LGIntl
NJM Packaging
Platinum Press
Plymouth Printing Co
Schreiner MediPharm
Tamper Technologies Ltd
TricorBraun
Weber Packaging
Solutions

**LEAFLET INSERTING
EQUIPMENT**

Capmatic Ltd,
Headquarters
DJS Enterprises
Efficient Automated
Machine Corp
Equipment Technology Co
Federal Equipment Co
G&K-Vijuk Intl
GoIndustry DoveBid
Massman Automation
Designs LLC, PSA Div
NJM Packaging
Union Standard
Equipment Co

**LEAFLET
OUTSERTING
EQUIPMENT**

Capmatic Ltd,
Headquarters
DJS Enterprises
Equipment
Technology Co
G&K-Vijuk Intl
GoIndustry DoveBid
Massman Automation
Designs LLC, PSA Div
NJM Packaging

**LIQUID FILLERS,
ABRASIVE
PRODUCTS**

Aspect Automation
Bausch + Stroebel
Machine Co
Bausch Advanced
Technologies

BellatRx
Capmatic Ltd,
Headquarters
DJS Enterprises
Federal Equipment Co
Filamatic, National
Instrument LLC
Frain Industries
GoIndustry DoveBid
groninger USA LLC
Kaps-All Packaging
Systems
Keith Machinery Corp
Oden Corp
Optima Pharma, Optima
Machinery Corp
OPTIMA pharma GmbH
Prodo-Pak Corp
Union Standard
Equipment Co
Watson-Marlow
Pumps Group

**LIQUID FILLERS,
STERILIZATION-IN-
PLACE**

Aspect Automation
Bausch + Stroebel
Machine Co
Capmatic Ltd,
Headquarters
Efficient Automated
Machine Corp
Federal Equipment Co
Filamatic, National
Instrument LLC
Frain Industries
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
Keith Machinery Corp
MAR Machine
Automatiche
Riempitrici SPA
Oden Corp
Optima Pharma, Optima
Machinery Corp
OPTIMA pharma GmbH
Oyster USA
Pope Scientific
Process Tek
Prodo-Pak Corp
Union Standard
Equipment Co
Watson-Marlow
Pumps Group
Weiler Engineering

**LIQUID FILLERS,
SUSPENSIONS**

Aspect Automation
Auto-Mate
Technologies LLC
Biosero LLC
Capmatic Ltd,
Headquarters
DJS Enterprises
Efficient Automated
Machine Corp
Federal Equipment Co
Filamatic, National
Instrument LLC
Frain Industries
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
Kaps-All Packaging
Systems
Keith Machinery Corp
MAR Machine
Automatiche
Riempitrici SPA
Oden Corp
Optima Pharma, Optima
Machinery Corp
Pope Scientific
Prodo-Pak Corp
Union Standard
Equipment Co
Watson-Marlow
Pumps Group
Weiler Engineering

**MARKING
EQUIPMENT,
BOTTOM CODING**

Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters
Control Micro Systems
Dalemark Industries
DJS Enterprises
Equipment Technology Co
Gem Marking & Coding
GoIndustry DoveBid
Griffin-Rutgers Co
groninger USA LLC
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Markem-Imaje,
Dover Div
Matthews Intl Corp,
Matthews Marking
Systems
Multivac, Medical
Squid Ink Mfg
Tharo Systems
Videojet Technologies

**MARKING
EQUIPMENT,
CYLINDRICAL
CONTAINERS**

Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters
Control Micro Systems
Dalemark Industries
DJS Enterprises
Equipment Technology Co
Gem Marking & Coding
GoIndustry DoveBid
Griffin-Rutgers Co
groninger USA LLC
Label Mill
Markem-Imaje,
Dover Div
Matthews Intl Corp,
Matthews Marking
Systems
Squid Ink Mfg
Tharo Systems
Videojet Technologies

**MOISTURE BARRIER
PACKAGING
MATERIAL**

DJS Enterprises
GoIndustry DoveBid
Klockner Pentaplast
Multisorb Technologies
Topas Advanced
Polymers
WL Gore & Assocs,
Gore PharmBIO
Products

OVERCAPPERS

Auto-Mate
Technologies LLC
Bausch + Stroebel
Machine Co
BellatRx
Capmatic Ltd,
Headquarters
DJS Enterprises
Filamatic, National
Instrument LLC
GoIndustry DoveBid
groninger USA LLC
Kaps-All Packaging
Systems
Kebby Industries
Mesa Labs
New England Machinery
Optima Pharma, Optima
Machinery Corp
Union Standard
Equipment Co

**OVERWRAPPING
MACHINES**

Bosch Packaging
Technology, Pharma
C & C Corp

For vendor contact information, see Company Directory section.

Capmatic Ltd,
Headquarters
DJS Enterprises
Golndustry DoveBid
ILAPAK
Keith Machinery Corp
LabX (Auctions)
MG America
Rennco LLC, Pro Mach
Union Standard
Equipment Co

**PACKAGING
BOARDS**
Golndustry DoveBid

**PACKAGING
MACHINES**
ABC Packaging
Machine Corp
ACG North America LLC
American-New-Long
Aspect Automation
Batching Systems
Bausch + Stroebel
Machine Co
BellatRx
Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters
Dividella, Pharma
Technology Solutions
DJS Enterprises
Efficient Automated
Machine Corp
ESS Technologies
Federal Equipment Co
216-271-3500
fax 216-271-5210
pharmaceutical@fedequip.com
www.fedequip.com

See ad on page 39

Filamatic, National
Instrument LLC
Golndustry DoveBid
groninger USA LLC
HECHT Technology
GmbH, Bulk Material
Handling
ILAPAK
IntelliTECH
Kaps-All Packaging
Systems
Key Intl
Kirby Lester LLC
LabX (Auctions)
Massman Automation
Designs LLC, PSA Div

MG America
Molins Technologies
Multivac, Medical
New England Machinery
NJM Packaging
OCS Checkweighers
OK Intl Group, OK
Sealer
Omega Design Corp
Optima Pharma, Optima
Machinery Corp
Oyster USA
PDC Intl Corp
Pearson Packaging
Systems
Per-Fil Industries
Polypack
Rennco LLC, Pro Mach
Rommelag USA
Schneider Packaging
Equipment Co
Sepha Ltd
Service Industries
Specialty Equipment
Uhlmann
Union Standard
Equipment Co
Weiler Engineering

**PALLET COVERS,
GMP**
Blue Thunder
Technologies
Edgeco
FabOhio
Golndustry DoveBid
Polar Tech Industries

**PALLETIZING AND
DEPALLETIZING
EQUIPMENT**
ABC Packaging
Machine Corp
American-New-Long
Columbia Machine,
Palletizer Div
Edgeco
ESS Technologies
Golndustry DoveBid
Magnetics Div, Global
Equipment Mktg

MG America
Morse Mfg
Oyster USA
Pearson Packaging
Systems
Schneider Packaging
Equipment Co
Specialty Equipment
Spiroflow Systems
Uhlmann
Whallon Machinery

PALLETS
Edgeco
Golndustry DoveBid
MO Industries
Snyder Industries, Dry
Handling & IBC Div
TMF Corp

**PAPER, FOIL,
FILM LAMINATIONS**
Bilcare Research
Catty Corp
Constantia Flexibles
Golndustry DoveBid
KNF Corp
LGIntl
Oliver-Tolas Healthcare
Packaging
Sonic Packaging
Industries
Tekni-Plex

**PLASTIC FOR
THERMOFORMED
PACKAGING**
Barger Packaging,
Placon Corp
Bilcare Research
Constantia Flexibles
Golndustry DoveBid
Klockner Pentaplast
Tekni-Plex
Topas Advanced
Polymers

PLASTIC SHEETING
Bilcare Research
Golndustry DoveBid
Innovative Processing
Solutions
Klockner Pentaplast
KNF Corp
Tekni-Plex
Trax Industrial
Products Corp, Trax
CleanRoom
Curtains Div

**POUCHES,
CELLOPHANE**
Equipment Technology Co
Golndustry DoveBid
Prodo-Pak Corp
Wrapade Packaging
Systems LLC

POUCHES, FOIL
Catty Corp
Equipment Technology Co
Golndustry DoveBid
KNF Corp
Oliver-Tolas Healthcare
Packaging
Oyster USA
Plymouth Printing Co
Prodo-Pak Corp
Sonic Packaging
Industries
Wrapade Packaging
Systems LLC

POUCHES, MYLAR
Golndustry DoveBid
KNF Corp
Oliver-Tolas Healthcare
Packaging
Plymouth Printing Co
Prodo-Pak Corp
Sonic Packaging
Industries
Wrapade Packaging
Systems LLC

POUCHES, PAPER
Golndustry DoveBid
KNF Corp
Oliver-Tolas Healthcare
Packaging
Plymouth Printing Co
Prodo-Pak Corp
Qosina
Sonic Packaging
Industries
Wrapade Packaging
Systems LLC

**POUCHES,
RECYCLABLE**
Edgeco
Golndustry DoveBid
KNF Corp
Prodo-Pak Corp
Sonic Packaging
Industries

POUCHES, TYVEK
Golndustry DoveBid
KNF Corp
Oliver-Tolas Healthcare
Packaging
Plymouth Printing Co
Qosina
Rennco LLC, Pro Mach
Wrapade Packaging
Systems LLC

POWDER FILLERS
Bausch + Stroebel
Machine Co
Bausch Advanced
Technologies
BellatRx
Bosch Packaging
Technology, Pharma
DJS Enterprises
ESS Technologies
Golndustry DoveBid
HECHT Technologie
GmbH, Bulk Material
Handling
Keith Machinery Corp
Key Intl
MAR Macchine
Automatiche
Riempitrici SPA

MG America
NJM Packaging
Optima Pharma, Optima
Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Romaco Pharmatechnik
GmbH
Spiroflow Systems
Wrapade Packaging
Systems LLC

**POWDER RECOVERY
SYSTEMS**
3V COGEIM
AZO
DJS Enterprises
Evaporator Dryer
Technologies
FPS Food & Pharma
Systems Srl
Golndustry DoveBid

**PRESSURE-
SENSITIVE TAPE**
Adhesives Research
ATL (Ad Tape & Label)
Blue Thunder
Technologies
Golndustry DoveBid
LGIntl
Tamper Technologies Ltd

**PRESSURE-
SENSITIVE TAPE,
STERILE**
Adhesives Research
ATL (Ad Tape & Label)
Blue Thunder
Technologies
Golndustry DoveBid
LGIntl

**PRINTING
EQUIPMENT**
AC Compacting LLC
Blue Thunder
Technologies
Complete Inspection
Systems
Control Micro Systems
Dalemark Industries
DJS Enterprises
Glen Mills
Global Vision
Golndustry DoveBid
Griffin-Rutgers Co
Label Mill
Markem-Imaje,
Dover Div
Matthews Intl Corp,
Matthews Marking
Systems
MNEMONICS
Rice Lake Weighing
Systems
RW Hartnett Co
Squid Ink Mfg
Tharo Systems
Videojet Technologies

**RFID (RADIO
FREQUENCY
IDENTIFICATION)**
AdvantaPure
Automated Control
Concepts
Blue Thunder
Technologies
Dematic Corp
Golndustry DoveBid
Griffin-Rutgers Co
InkSure Technologies
Markem-Imaje,
Dover Div
NJM Packaging
Rice Lake Weighing
Systems
Schober USA
Siemens Industry,
Automation & Drive
Technologies
Systech Intl
Tharo Systems
Weber Packaging
Solutions

**ROLLSTOCK,
COATED FILM**
Adhesives Research
Catty Corp
DelStar Technologies
Golndustry DoveBid
Klockner Pentaplast
Oliver-Tolas Healthcare
Packaging
Sonic Packaging
Industries

**ROLLSTOCK,
COATED PAPER**
Catty Corp
Golndustry DoveBid
Oliver-Tolas Healthcare
Packaging

**SEALING
EQUIPMENT,
ULTRASONIC**
DIR Technologies
DJS Enterprises
Golndustry DoveBid
Herrmann Ultrasonics
Optima Pharma, Optima
Machinery Corp

**SEALS,
HEAT-SHRINKABLE**
Capmatic Ltd,
Headquarters
Gerresheimer AG
Golndustry DoveBid
Klockner Pentaplast

**SEALS, TAMPER-
EVIDENT**
3C Packaging
Auto-Mate
Technologies LLC
Bilcare Research
Capmatic Ltd,
Headquarters
Edgeco
Enercon Industries Corp
Golndustry DoveBid
Herrmann Ultrasonics
Kaps-All Packaging
Systems
Klockner Pentaplast
LGIntl
Rommelag USA
RONDO-PAK
Schreiner MediPharm
Tamper Technologies Ltd
West Pharmaceutical
Services
Wrapade Packaging
Systems LLC

**SECURITY, BRAND
PROTECTION**
3C Packaging
Adhesives Research
Complete Inspection
Systems
CustomVault
DIR Technologies
Golndustry DoveBid
InkSure Technologies
LGIntl
Omega Design Corp
Platinum Press
Product Identification &
Processing Systems
RONDO-PAK
Tamper Technologies Ltd

**SHRINK PACKAGING
EQUIPMENT**
DJS Enterprises
Golndustry DoveBid
Keith Machinery Corp
NJM Packaging
Omega Design Corp
PDC Intl Corp
Polypack
Rennco LLC, Pro Mach
Union Standard
Equipment Co

**STERILE
PACKAGING
COMPONENTS**
Barger Packaging,
Placon Corp
Capmatic Ltd,
Headquarters
Constantia Flexibles
Golndustry DoveBid
Process Tek
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging
WL Gore & Assocs,
Gore PharmBIO
Products
Xenon Corp

**STERILE
PACKAGING,
DRY PRODUCTS**
Aspect Automation
Barger Packaging,
Placon Corp
Bausch + Stroebel
Machine Co
Golndustry DoveBid
Hosokawa Micron
Powder Systems

KNF Corp
Oyster USA
Process Tek
Prodo-Pak Corp
Wheaton Industries,
Wheaton Science
Packaging

**STERILE
PACKAGING,
LIQUIDS**
American Plastics
Technologies - Rao
Design Intl
Aspect Automation
Bausch + Stroebel
Machine Co
Bosch Inspection
Technology
Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters
Efficient Automated
Machine Corp
Filamatic, National
Instrument LLC
Golndustry DoveBid
groninger USA LLC
IntelliTECH
Lonza
MAR Macchine
Automatiche
Riempitrici SPA
**Meissner Filtration
Products**
Oden Corp
Optima Pharma, Optima
Machinery Corp
OPTIMA pharma GmbH
Oyster USA
Process Tek
Prodo-Pak Corp
Rommelag USA
Vettek Associates Inc
Watson-Marlow Pumps
Group
Weiler Engineering
Wheaton Industries,
Wheaton Science
Packaging

**STERILE
PACKAGING,
OINTMENTS AND
CREAMS**
American Plastics
Technologies - Rao
Design Intl
Capmatic Ltd,
Headquarters
Filamatic, National
Instrument LLC
Golndustry DoveBid
groninger USA LLC
Oden Corp
Optima Pharma, Optima
Machinery Corp
Oyster USA
Process Tek
Prodo-Pak Corp
Rommelag USA

**STOPPER
STERILIZING
EQUIPMENT**
Bosch Packaging
Technology, Pharma
ETC, Sterilization
Systems
Federal Equipment Co
Golndustry DoveBid
HEL
Nicos Group
Optima Pharma, Optima
Machinery Corp
Process Tek
Sani-Matic
Victor Intl Mktg

**STOPPER WASHING
EQUIPMENT**
Bosch Packaging
Technology, Pharma
Capmatic Ltd,
Headquarters

ETC, Sterilization Systems
Federal Equipment Co
 GoIndustry DoveBid
 Nicos Group
 Optima Pharma, Optima Machinery Corp
 Sani-Matic
 Victor Intl Mktg

STOPPERS, BUTYL
 GoIndustry DoveBid
 JG Finneran Assocs
 West Pharmaceutical Services
 Wheaton Industries, Wheaton Science Packaging

STRETCH BANDING MACHINES
 Capmatic Ltd, Headquarters
 DJS Enterprises
 GoIndustry DoveBid
 Keith Machinery Corp
 NJM Packaging
 Omega Design Corp
 Specialty Equipment

STRIP PACKAGING
 DJS Enterprises
 GoIndustry DoveBid
 Keith Machinery Corp
MG America
 Prodo-Pak Corp
 Romaco Pharmatechnik GmbH
Rommelag USA
 Sonic Packaging Industries
 Union Standard Equipment Co

SUPPOSITORY SHELLS
 GoIndustry DoveBid

SYRINGE ASSEMBLY EQUIPMENT
 Bausch + Stroebel Machine Co
 Bausch Advanced Technologies
 Bosch Inspection Technology
 Bosch Packaging Technology, Pharma
 Capmatic Ltd, Headquarters
 Efficient Automated Machine Corp
 ESS Technologies
 Gerresheimer AG
 GoIndustry DoveBid
 Groninger USA LLC
 M&O Perry Industries
MG America
 Optima Pharma, Optima Machinery Corp

SYRINGE FILLING EQUIPMENT
 Bausch + Stroebel Machine Co
 Bausch Advanced Technologies
 Bosch Packaging Technology, Pharma
 Capmatic Ltd, Headquarters
 DJS Enterprises
 Efficient Automated Machine Corp
 ESS Technologies
Federal Equipment Co
 Filamatic, National Instrument LLC
 FP Developments
 GoIndustry DoveBid
 Groninger USA LLC
 IntelliTECH
 M&O Perry Industries
 MAR Macchine Automatiche
 Riempitrici SPA

MG America
 Nicos Group
 Oden Corp
 Optima Pharma, Optima Machinery Corp
 OPTIMA pharma GmbH
 Pall Life Sciences, Biopharmaceuticals
 Prodo-Pak Corp
 Union Standard Equipment Co

SYRINGE PRINTING EQUIPMENT
 AC Compacting LLC
 Control Micro Systems
 Dalemark Industries
 DJS Enterprises
 Gerresheimer AG
 GoIndustry DoveBid
 Groninger USA LLC
 Matthews Intl Corp, Matthews Marking Systems
 Optima Pharma, Optima Machinery Corp
 Prodo-Pak Corp
 Videojet Technologies

SYRINGES (AS PACKAGING MATERIAL)
 Agilent Technologies
 Air-Tite Products, Syringe & Needle Products Div
 Dividella, Pharma Technology Solutions
 DJS Enterprises
 Gerresheimer AG
 GoIndustry DoveBid
 Groninger USA LLC
 Renco Corp
 Topas Advanced Polymers

SYRINGES, NON-STERILE, PREFILLABLE
 Air-Tite Products, Syringe & Needle Products Div
 Gerresheimer AG
 GoIndustry DoveBid
 Groninger USA LLC
 OPTIMA pharma GmbH
 Qosina
 Topas Advanced Polymers

SYRINGES, STERILE, PREFILLABLE
 Air-Tite Products, Syringe & Needle Products Div
 Gerresheimer AG
 GoIndustry DoveBid
 Groninger USA LLC
 Mycoscience
 OPTIMA pharma GmbH
 Topas Advanced Polymers

TABLET COUNTING MACHINES
 ACG North America LLC
 American Plastics Technologies - Rao Design Intl
 Batching Systems
 BellatRx
 C & C Corp
 Capmatic Ltd, Headquarters
 DJS Enterprises
 Equipment Technology Co
Federal Equipment Co
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 Kirby Lester LLC
 LabX (Auctions)
 NJM Packaging
 Prodo-Pak Corp

Romaco Pharmatechnik GmbH
 Service Industries
 Union Standard Equipment Co

TABLET PRINTING SYSTEMS
 AC Compacting LLC
 Ackley Machine Corp
 American Plastics Technologies - Rao Design Intl
 Control Micro Systems
 DJS Enterprises
 Efficient Automated Machine Corp
Federal Equipment Co
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 Matthews Intl Corp, Matthews Marking Systems
 RW Hartnett Co
 Union Standard Equipment Co
 Videojet Technologies

TAMPER-EVIDENT PACKAGING
 3C Packaging
 Adhesives Research
 American Plastics Technologies - Rao Design Intl
 ATL (Ad Tape & Label) Auto-Mate
 Technologies LLC
 Barger Packaging, Placon Corp
 Capmatic Ltd, Headquarters
 Constantia Flexibles
 Dividella, Pharma Technology Solutions
 DJS Enterprises
 Enercon Industries Corp
 Equipment Technology Co
 Frain Industries
 Globe Scientific
 GoIndustry DoveBid
 Kaps-All Packaging Systems
 LGIntl
MG America
 Newman Labeling Systems
 NJM Packaging
 PDC Intl Corp
 Qosina
Rommelag USA
 Schreiner MediPharm
 Tamper Technologies Ltd
 Tekni-Plex
 TricorBraun
 Union Standard Equipment Co
 Wrapade Packaging Systems LLC

TEMPERATURE CONTROL CONTAINERS
 AcuTemp Thermal Systems
 Cold Chain Technologies
 CSafe LLC
 Custom Heat LLC
 GoIndustry DoveBid
 Polar Tech Industries

THERMOFORMED BLISTERS OR TRAYS
 Barger Packaging, Placon Corp
 Constantia Flexibles
 GoIndustry DoveBid
 Hurst Corp
 Klockner Pentaplast
MG America
 Sonic Packaging Industries
 Tekni-Plex
 Topas Advanced Polymers

TORQUE TESTER
Atlantic Scale Co
 Auto-Mate
 Technologies LLC
 Blue Thunder
 Technologies
 Capmatic Ltd, Headquarters
Federal Equipment Co
 GoIndustry DoveBid
 I Holland Ltd
 Kaps-All Packaging Systems
Natoli Engineering Co
 NJM Packaging
 Pharmatron
 Process Tek

TRANSFER TAPES
 Adhesives Research
 ATL (Ad Tape & Label)
 GoIndustry DoveBid

TRAYS, PLASTIC, AUTOCLAVABLE
 Barger Packaging, Placon Corp
 Edgeco
 Efficient Automated Machine Corp
 General Lab & Cleanroom Supply, dba General Lab Supply
 GoIndustry DoveBid
 Hurst Corp
 Molded Fiber Glass Tray Co
 Qosina
 Topas Advanced Polymers
 WL Gore & Assocs, Gore PharmBIO Products
 WRH Industries Ltd

TRAYS, STERILE STAINLESS STEEL
 Capmatic Ltd, Headquarters
 Custom Metalcraft
 Efficient Automated Machine Corp
 FP Developments
 Garvey Corp
 GMP Systems
 GoIndustry DoveBid
 Groninger USA LLC
 Hurst Corp
 Isolation Systems
 MO Industries
 Pink GmbH
 ThermoSysteme
 Terra Universal

TRAYS, VIAL AND AMPUL
 Barger Packaging, Placon Corp
 Bosch Packaging Technology, Pharma
 Capmatic Ltd, Headquarters
 Efficient Automated Machine Corp
 ESS Technologies
 FP Developments
 Garvey Corp
 GMP Systems
 GoIndustry DoveBid
 Hurst Corp
 MO Industries
 Molded Fiber Glass Tray Co
 Topas Advanced Polymers

TUBE FILLING AND CRIMPING MACHINES, METAL TUBES
 Bausch Advanced Technologies
 Bosch Packaging Technology, Pharma

Capmatic Ltd, Headquarters
 CroPharm
 DJS Enterprises
Federal Equipment Co
 Frain Industries
 Geci Tech LLC
 GoIndustry DoveBid
 Keith Machinery Corp
 Key Intl
 Prodo-Pak Corp
 Romaco Pharmatechnik GmbH
 Union Standard Equipment Co

TUBE FILLING AND SEALING EQUIPMENT, PLASTIC TUBES
 AdvantaPure
 Capmatic Ltd, Headquarters
 CroPharm
 DJS Enterprises
Federal Equipment Co
 Frain Industries
 Geci Tech LLC
 GoIndustry DoveBid
 Herrmann Ultrasonics
 Keith Machinery Corp
 Key Intl
 M&O Perry Industries
 Oyster USA
 Prodo-Pak Corp
 Romaco Pharmatechnik GmbH
 Union Standard Equipment Co

TUBE PRINTING EQUIPMENT
 Control Micro Systems
 DJS Enterprises
 Geci Tech LLC
 GoIndustry DoveBid
 Keith Machinery Corp
 Matthews Intl Corp, Matthews Marking Systems
 Polymicro Technologies, Sub Molex
 RW Hartnett Co
 Videojet Technologies

TUBES, CAPILLARY, LAMINATE
 Berlin Packaging
 Geci Tech LLC
 Globe Scientific
 GoIndustry DoveBid

TUBES, METAL SQUEEZE
 Berlin Packaging
 CroPharm
 Geci Tech LLC
 GoIndustry DoveBid
 TricorBraun

TUBES, PLASTIC SQUEEZE
 Berlin Packaging
 Flex Products
 Geci Tech LLC
 GoIndustry DoveBid
 Topas Advanced Polymers
 TricorBraun

TUBES, POLYETHYLENE
 Berlin Packaging
 Flex Products
 Geci Tech LLC
 Globe Scientific
 GoIndustry DoveBid
 RAUMEDIC
 Sonic Packaging Industries
 TricorBraun

UNIT DOSING MACHINES
 American Plastics Technologies - Rao Design Intl
 Capmatic Ltd, Headquarters
 Dividella, Pharma Technology Solutions
 FP Developments
 GoIndustry DoveBid
 HECHT Technologie GmbH, Bulk Material Handling
 Key Intl
MG America
 Omega Design Corp
 Oyster USA
Rommelag USA
 Uhlmann
 Watson-Marlow Pumps Group

UNIT PACKAGING EQUIPMENT
 American Plastics Technologies - Rao Design Intl
 Aspect Automation
 Dividella, Pharma Technology Solutions
 DJS Enterprises
 General Packaging Equipment Co
 GoIndustry DoveBid
 HECHT Technologie GmbH, Bulk Material Handling
MG America
 Oyster USA
Rommelag USA
 Sepha Ltd
 Weiler Engineering

VACUUM FITTINGS
 Geci Tech LLC
 GoIndustry DoveBid
 The Spencer Turbine Co

VACUUM PACKAGING EQUIPMENT
 Aspect Automation
 Capmatic Ltd, Headquarters
 DJS Enterprises
 Frain Industries
 General Packaging Equipment Co
 GoIndustry DoveBid
 ILAPAK
 Multivac, Medical
 OPTIMA pharma GmbH
 Ron I
 Tuthill Vacuum & Blower Systems
 Union Standard Equipment Co

VIAL CLOSING EQUIPMENT
 Aspect Automation
 Auto-Mate
 Technologies LLC
 Bausch + Stroebel Machine Co
 Bausch Advanced Technologies
 BellatRx
 Bosch Packaging Technology, Pharma
 Capmatic Ltd, Headquarters
 DJS Enterprises
 Efficient Automated Machine Corp
Federal Equipment Co
 GoIndustry DoveBid
 Groninger USA LLC
 IntelliTECH
 Kaps-All Packaging Systems
 Kobby Industries
 MAR Macchine Automatiche
 Riempitrici SPA
 New England Machinery

For vendor contact information, see Company Directory section.

Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
PennTech Machinery Corp, The PennTech Group
Wheaton Industries, Wheaton Science Packaging

VIAL CRIMP SEALING MACHINES

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
BellatRx
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
Efficient Automated Machine Corp
Federal Equipment Co
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
Kebby Industries
M&O Perry Industries
MAR Macchine Automatische Riemptatrici SPA
MicroLiter Analytical Supplies
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
Watson-Marlow Pumps Group
Wheaton Industries, Wheaton Science Packaging

VIAL FEEDING EQUIPMENT

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
BellatRx
Bosch Inspection Technology
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
DJS Enterprises
Efficient Automated Machine Corp
Federal Equipment Co
Filamatic, National Instrument LLC
FP Developments
Garvey Corp
GoIndustry DoveBid
groninger USA LLC
IntelliTECH

Kaps-All Packaging Systems
MAR Macchine Automatische Riemptatrici SPA
New England Machinery
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
PennTech Machinery Corp, The PennTech Group
Watson-Marlow Pumps Group

VIAL FILLING EQUIPMENT

Aspect Automation
Bausch Advanced Technologies
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
DJS Enterprises
Efficient Automated Machine Corp
ESS Technologies
Federal Equipment Co
Filamatic, National Instrument LLC
FP Developments
Frain Industries
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
Kaps-All Packaging Systems
Kirby Lester LLC
M&O Perry Industries
MAR Macchine Automatische Riemptatrici SPA
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
Pall Life Sciences, Biopharmaceuticals
Per-Fil Industries
Union Standard Equipment Co
Victor Intl Mktg
Watson-Marlow Pumps Group
Weiler Engineering

VIAL LABELING MACHINERY

Accraply, Div Barry-Wehmler Co
Bausch + Stroebel Machine Co
Bausch Advanced Technologies
BellatRx
Capmatic Ltd, Headquarters

Dalemark Industries
DJS Enterprises
Federal Equipment Co
GoIndustry DoveBid
Griffin-Rutgers Co
groninger USA LLC
Kaps-All Packaging Systems
Label Mill
Newman Labeling Systems
NJM Packaging
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
Union Standard Equipment Co

VIAL PRINTING SYSTEMS

Bausch + Stroebel Machine Co
Bosch Packaging Technology, Pharma
Control Micro Systems
Dalemark Industries
Flex Products
FP Developments
Glen Mills
GoIndustry DoveBid
groninger USA LLC
Matthews Intl Corp, Matthews Marking Systems
OPTIMA pharma GmbH
Videojet Technologies

VIAL SCREW CAPPING MACHINES

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
BellatRx
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
ESS Technologies
Federal Equipment Co
Filamatic, National Instrument LLC
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
Kaps-All Packaging Systems
MAR Macchine Automatische Riemptatrici SPA
New England Machinery
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
Watson-Marlow Pumps Group

VIAL STOPPERING MACHINES

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
BellatRx
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
Efficient Automated Machine Corp
Enguard Systems, Div Containment Technologies Group
ESS Technologies
Federal Equipment Co
Filamatic, National Instrument LLC
FP Developments
GoIndustry DoveBid
groninger USA LLC
IntelliTECH
M&O Perry Industries
MAR Macchine Automatische Riemptatrici SPA
New England Machinery
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH
PennTech Machinery Corp, The PennTech Group
Watson-Marlow Pumps Group

VIAL TRAYING EQUIPMENT

Bausch + Stroebel Machine Co
Bausch Advanced Technologies
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
Efficient Automated Machine Corp
ESS Technologies
Filamatic, National Instrument LLC
FP Developments
Garvey Corp
GoIndustry DoveBid
groninger USA LLC
Hurst Corp
M&O Perry Industries
MAR Macchine Automatische Riemptatrici SPA
McBrady Engineering
Optima Pharma, Optima Machinery Corp
OPTIMA pharma GmbH

VIALS, GLASS

Agilent Technologies
Blue Thunder Technologies
Capmatic Ltd, Headquarters
Gerresheimer AG
GoIndustry DoveBid
JG Finneran Assocs
MicroLiter Analytical Supplies
Qosina
TricorBraun
Wheaton Industries, Wheaton Science Packaging

VIALS, PLASTIC

Agilent Technologies
American Plastics Technologies - Rao Design Intl
BioSpec Products
Blue Thunder Technologies
Capmatic Ltd, Headquarters
Drug Plastics & Glass Co
Flex Products
Gerresheimer AG
Globe Scientific
GoIndustry DoveBid
JG Finneran Assocs
MicroLiter Analytical Supplies
Qosina
Sonic Packaging Industries
Topas Advanced Polymers
TricorBraun
West Pharmaceutical Services
Wheaton Industries, Wheaton Science Packaging

WEIGHING SYSTEMS

American-New-Long
Atlantic Scale Co
AZO
Batching Systems
Bausch Advanced Technologies
Bosch Packaging Technology, Pharma
Capmatic Ltd, Headquarters
General Packaging Equipment Co
GoIndustry DoveBid
HECHT Technologie GmbH, Bulk Material Handling
Hosokawa Micron Powder Systems
ILAPAK

Kistler Morse
Lock Inspection Systems
Loma Systems / Lock Inspection Systems
MAR Macchine Automatische Riemptatrici SPA
Mettler-Toledo Hi-Speed, Product Inspection Div
MG America
National Bulk Equipment
OCS Checkweighers
Optima Pharma, Optima Machinery Corp
Schenck Process
Siemens Industry, Automation & Drive Technologies
Vac-U-Max

WIPERS, LINTFREE

Blue Thunder Technologies
GoIndustry DoveBid
Lymtech Scientific
Qosina
Renco Corp
Sonic Packaging Industries
Terra Universal

WIPERS, LINTFREE, STERILE

Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Lymtech Scientific
Renco Corp
Sonic Packaging Industries

WRAPPING MACHINES

American-New-Long
Capmatic Ltd, Headquarters
DJS Enterprises
Frain Industries
GoIndustry DoveBid
ILAPAK
Keith Machinery Corp
MG America
Rennco LLC, Pro Mach
Romaco Pharmatechnik GmbH
Union Standard Equipment Co ■

Pharmaceutical Technology®

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Your Global Message

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equipment & supplies

LABORATORY

See listings online at PharmTech.com

For vendor contact information, see Company Directory section.

ADSORPTION GAS APPARATUS

Agilent Technologies
GolIndustry DoveBid
Hiden Analytical
L & C Science and Technology
Micromeritics
Instrument Corp
WA Hammond
Drierite Co Ltd

AIR ANALYZERS

Agilent Technologies
Cole-Parmer
Dwyer Instruments
E Instruments Intl
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
ENMET Corp
GolIndustry DoveBid
Goyen Valve LLC, Pentair
Environmental Systems
Neutronics, Gas Analysis Solutions
Siemens Industry,
Automation & Drive Technologies
Spectrum Chemical Mfg Corp
Testo

AIR PURIFIERS

Biological Controls
GolIndustry DoveBid
Isolation Systems
LM Air Technology,
Cleanroom & Lab Equipment
Novatron
Qosina
R Kraft (RKI)
WA Hammond
Drierite Co Ltd

AIR SAMPLERS

Agilent Technologies
Allegro Industries
Cole-Parmer
E Instruments Intl
GolIndustry DoveBid
Isolation Systems
LabX (Auctions)
Lighthouse Worldwide Solutions
Neutronics, Gas Analysis Solutions
PureAire Monitoring Systems
Restek Corp
Spectrum Chemical Mfg Corp

AMINO ACID ANALYZERS

Blue Lion Biotech
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine

AMPUL OPENERS

GolIndustry DoveBid
Sepha Ltd
Spectrum Chemical Mfg Corp
Two Dimensional Instruments LLC
Wheaton Industries,
Wheaton Science Packaging

ANAEROBIC CULTURE APPARATUS

DCI-Biolafitte
Eppendorf
GolIndustry DoveBid
Labconco Corp

ANIMAL CAGES AND RESTRAINERS

General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine

ANIMAL RESEARCH EQUIPMENT AND ACCESSORIES

BASI
Cole-Parmer
Cygnus Technologies
Darwin Chambers Co
Globe Scientific
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
ISO Tech Design
Labconco Corp
Tuttnauer USA Co Ltd,
Lab & Scientific Div

AUTOCLAVES AND ACCESSORIES

ARS Enterprises,
ARS/Beverly Pacific Sterilizers
BioPro Intl
Blue Lion Biotech
Buchiglas-USA Corp
Burns Engineering
Central Research Labs
Charles Ross & Son Co
Cole-Parmer
DJS Enterprises
ETC, Sterilization Systems
Federal Equipment Co
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Kinematica
LabX (Auctions)
Mesa Labs
Nicos Group
Primus Sterilizer Co LLC
Spectrum Chemical Mfg Corp
Steritool
TMI USA
Tuttnauer USA Co Ltd,
Lab & Scientific Div

AUTOMATED ANALYSIS EQUIPMENT

ABB Analytical
Measurement
Agilent Technologies
BASI
Blue Lion Biotech
Distek
GolIndustry DoveBid
Johanson Innovations
LT Industries
Micromeritics
Instrument Corp
Schaefer Technologies
Shimadzu Scientific Instruments
Synbiosis

BALANCE ENCLOSURES

CSR Pharma Services
Enguard Systems,
Div Containment Technologies Group
FabOhio

BALANCES, ANALYTICAL

Atlantic Scale Co

Blue Lion Biotech
CI Electronics Ltd
CI Precision
Cole-Parmer
CSR Pharma Services
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Hiden Analytical
LabX (Auctions)
Mettler Toledo, Lab
Natoli Engineering Co
Perkin Elmer Corp, Environmental Health
Rice Lake Weighing Systems
Scientech
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp
Woodley
Equipment Co Ltd

BALANCES, ANIMAL

Atlantic Scale Co
Blue Lion Biotech
Cole-Parmer
CSR Pharma Services
GolIndustry DoveBid
Mettler Toledo, Lab
OCS Checkweighers
Scientech
Shimadzu Scientific Instruments

BALANCES, AUTOMATIC

Artel
Atlantic Scale Co
Blue Lion Biotech
Cole-Parmer
CSR Pharma Services
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Mettler Toledo, Lab
OCS Checkweighers

BALANCES, CALIBRATION

Artel
Atlantic Scale Co
Beamex
Cole-Parmer
CSR Pharma Services
DJS Enterprises
GolIndustry DoveBid
Masy Systems
Mettler Toledo, Lab
OCS Checkweighers
Rice Lake Weighing Systems
Spectrum Chemical Mfg Corp
Woodley
Equipment Co Ltd

BALANCES, DIRECT DIGITAL READOUT

Atlantic Scale Co
Blue Lion Biotech
Cole-Parmer
Control Co
CSR Pharma Services
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
OCS Checkweighers
Spectrum Chemical Mfg Corp

BALANCES, DISPENSING

Atlantic Scale Co
Blue Lion Biotech
Cole-Parmer
CSR Pharma Services
DJS Enterprises
GolIndustry DoveBid
Werum IT Solutions
America

BALANCES, ELECTRONIC

Atlantic Scale Co
Cole-Parmer
CSR Pharma Services
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
LabX (Auctions)
Mettler Toledo, Lab
OCS Checkweighers
Perkin Elmer Corp, Environmental Health
Rice Lake Weighing Systems
Scientech
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp
Woodley
Equipment Co Ltd

BALANCES, GAS DENSITY

Atlantic Scale Co
CSR Pharma Services
GolIndustry DoveBid

BALANCES, MICRO

Atlantic Scale Co
Blue Lion Biotech
CI Electronics Ltd
CI Precision
Cole-Parmer
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Hiden Analytical
Mettler Toledo, Lab
Spectrum Chemical Mfg Corp
Surface Measurement Systems
Woodley
Equipment Co Ltd

BALANCES, MOISTURE

Arizona Instrument LLC
Atlantic Scale Co
CI Electronics Ltd
CI Precision
Cole-Parmer
CSR Pharma Services
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Hiden Analytical
Mettler Toledo, Lab
Rice Lake Weighing Systems
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp
Surface Measurement Systems

BALANCES, SINGLE-PAN

Atlantic Scale Co
Cole-Parmer
CSR Pharma Services

General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Rice Lake Weighing Systems
Scientech
Spectrum Chemical Mfg Corp
Woodley
Equipment Co Ltd

BALANCES, SOLUTION

Atlantic Scale Co
Blue Lion Biotech
CSR Pharma Services
GolIndustry DoveBid
Mettler Toledo, Lab
Werum IT Solutions
America

BALANCES, SPECIFIC GRAVITY

Atlantic Scale Co
Cole-Parmer
CSR Pharma Services
GolIndustry DoveBid
Mettler Toledo, Lab
Scientech
Shimadzu Scientific Instruments

BALANCES, SURFACE TENSION

Atlantic Scale Co
CI Precision
CSR Pharma Services
GolIndustry DoveBid

BALANCES, TRIPLE-BEAM

Atlantic Scale Co
Blue Lion Biotech
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Rice Lake Weighing Systems
Spectrum Chemical Mfg Corp

BAROMETERS

Ashcroft
Beamex
Control Co
GolIndustry DoveBid
MKS Instruments
OCS Checkweighers
Omega Engineering
Spectrum Chemical Mfg Corp
Uehling Instrument Co

BLENDERS

A&M Process Equipment Ltd
AIM Blending Technologies
BEE Intl
Bematek Systems
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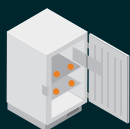
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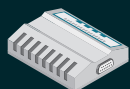
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Dwyer Instruments
FSI Technologies
GoIndustry DoveBid
Isolation Systems
Newport Electronics
Norman N Axelrod
Assocs, Optical Sensing & Control Systems
Development Div
Omega Engineering
Rockwell Automation
Siemens Industry, Automation & Drive Technologies
Siemens Infrastructure + Cities, Building Technologies Div
Uehling Instrument Co

CONTROLS, TEMPERATURE
Atlantic Scale Co
Automated Control Concepts
BioCold Environmental
Budzar Industries
Burns Engineering
Cole-Parmer
Custom Heat LLC
DeltaTRAK
Durex Industries
Dwyer Instruments
Ellab
Eppendorf
GoIndustry DoveBid

Harvard Apparatus
Regenerative Medicine
Isolation Systems
Mokon
Newport Electronics
Omega Engineering
PolyScience
Process Technology
Rockwell Automation
Siemens Industry, Automation & Drive Technologies
Siemens Infrastructure + Cities, Building Technologies Div
Spectrum Chemical Mfg Corp
Thermalac
TMI USA
Woodley
Equipment Co Ltd
Yokogawa Corp of America

CONTROLS, TIMING
FSI Technologies
GoIndustry DoveBid
Isolation Systems
Newport Electronics
Rockwell Automation
Siemens Industry, Automation & Drive Technologies

COOLING DEVICES
BioCold Environmental
BioSpec Products
Cole-Parmer
Durex Industries
GoIndustry DoveBid
Isolation Systems
Julabo USA
Mokon
PolyScience
Equipment Co Ltd

COUNTERS, BACTERIOLOGICAL
GoIndustry DoveBid
Pall Life Sciences, Biopharmaceuticals
Spectrum Chemical Mfg Corp

COUNTERS, LIQUID SCINTILLATION
GoIndustry DoveBid

COUNTERS, PARTICLE
Blue Thunder
Technologies
Climet Instruments Co
Cole-Parmer
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Fluid Imaging Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Lighthouse Worldwide Solutions
Masy Systems
Micro Measurement Labs
Micromeritics
Instrument Corp
Particle Measuring Systems
Particle Sizing Systems
Spectrum Chemical Mfg Corp
Terra Universal

COUNTING DEVICES
ACR Systems
Atlantic Scale Co
BellatRx
Cole-Parmer
DJS Enterprises
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

FSI Technologies
GoIndustry DoveBid
Newport Electronics
Particle Sizing Systems
Rice Lake Weighing Systems
Siemens Industry, Automation & Drive Technologies
Spectrum Chemical Mfg Corp
Woodley
Equipment Co Ltd
Yokogawa Corp of America

COUNTING SYSTEMS
BellatRx
Complete Inspection Systems
DJS Enterprises
FSI Technologies
GoIndustry DoveBid
Siemens Industry, Automation & Drive Technologies

CRUSH STRENGTH ANALYZERS
AC Compacting LLC
GoIndustry DoveBid
Natoli Engineering Co
Testing Machines
Texture Technologies Corp

CULTURE APPARATUS, ANAEROBIC
BioPro Intl
DCI-Biolafitte
Eppendorf
GoIndustry DoveBid

CULTURE APPARATUS, BACTERIOLOGICAL
BioPro Intl
DCI-Biolafitte
Eppendorf
Eppendorf
GoIndustry DoveBid
Labconco Corp

CULTURE APPARATUS, CULTURE COLLECTION SYSTEMS
GoIndustry DoveBid

CULTURE APPARATUS, CULTURE GROWTH MEDIA AND ACCESSORIES
BioPro Intl
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
GoIndustry DoveBid
Spectrum Chemical Mfg Corp
StemCell Technologies
Wheaton Industries, Wheaton Science Packaging

DATA LOGGING EQUIPMENT
ACR Systems
Arizona Instrument LLC
Automated Control Concepts
Badger Meter
BioCold Environmental
Carltext
Cole-Parmer
DeltaTRAK
Dickson
Dwyer Instruments
E Instruments Intl
Ellab
Flowmatics
GoIndustry DoveBid

Goyen Valve LLC, Pentair Environmental Systems
Marathon Products
Masy Systems
Mesa Labs
Natoli Engineering Co
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Rockwell Automation
Rotronic
Instrument Corp
Siemens Industry,
Automation & Drive
Technologies
Status Instruments
Testo
TMI USA
Two Dimensional
Instruments LLC
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**DATA-ACQUISITION
EQUIPMENT**

Acromag
Advantest America
Artel
Automated Control
Concepts
Badger Meter
Carltex
Cole-Parmer
D-Star Instruments
DeltaTRAK
Dickson
Dwyer Instruments
Ellab
Flownamics
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Harvard Apparatus
Regenerative
Medicine
Lighthouse Worldwide
Solutions
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies
Status Instruments
Testo
TMI USA
Two Dimensional
Instruments LLC
Yokogawa Corp of
America

DENSITOMETERS

Anton PAAR USA
Blue Lion Biotech
GoIndustry DoveBid
Mettler Toledo, Lab
Testing Machines
Texture
Technologies Corp

**DENSITY
MEASURING
EQUIPMENT**

ABB Analytical
Measurement
AGR Intl
Anton PAAR USA
Automation Products,
Dynatrol @ Div
GoIndustry DoveBid
Hosokawa Micron
Powder Systems
Krohne
Mettler Toledo, Lab
Micromeritics
Instrument Corp
Testing Machines
Texture
Technologies Corp
Yokogawa Corp of
America

**DETECTORS,
DIODE-ARRAY**
Blue Lion Biotech
Bosch Inspection
Technology
D-Star Instruments
GoIndustry DoveBid
HORIBA Scientific
Pion
Shimadzu Scientific
Instruments
Waters Corp, Waters Div

**DETECTORS,
ELECTROCHEMICAL**
Blue Lion Biotech
D-Star Instruments
E Instruments Intl
ENMET Corp
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Mil-Ram Technology
Neutronics, Gas
Analysis Solutions
PureAire Monitoring
Systems
Sensor Electronics Corp
Shimadzu Scientific
Instruments

**DETECTORS,
ELECTRON
CAPTURE**
GoIndustry DoveBid
Restek Corp
Shimadzu Scientific
Instruments
Valco Instruments Co
(VIC)

**DETECTORS,
EVAPORATIVE
LIGHT-SCATTERING**
BUCHI Corp
D-Star Instruments
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Shimadzu Scientific
Instruments
Waters Corp, Waters Div

**DETECTORS,
FLAME IONIZATION**
Blue Lion Biotech
E Instruments Intl
GoIndustry DoveBid
Mil-Ram Technology
Restek Corp
Shimadzu Scientific
Instruments
Siemens Infrastructure +
Cities, Building
Technologies Div

**DETECTORS,
FLUORESCENCE**
Blue Lion Biotech
Brendan Technologies
D-Star Instruments
EDAX, Materials
Analysis Div
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
HORIBA Scientific
LabX (Auctions)
Natoli Engineering Co
Perkin Elmer Corp,
**Environmental
Health**
Quantum Analytics
Shimadzu Scientific
Instruments
Waters Corp, Waters Div

**DETECTORS,
GAMMA RADIATION**
Brendan Technologies
GoIndustry DoveBid

DETECTORS, IR
ABB Analytical
Measurement
Agilent Technologies
Blue Lion Biotech
DeltaTRAK
Dickson
E Instruments Intl
ENMET Corp
GoIndustry DoveBid
HORIBA Scientific
Industrial Hydrocarbons
LabX (Auctions)
Mil-Ram Technology
Neutronics, Gas
Analysis Solutions
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Perkin Elmer Corp,
**Environmental
Health**
Sensor Electronics Corp

**DETECTORS,
LASER-INDUCED
FLUORESCENCE**
Agilent Technologies
Blue Lion Biotech
GoIndustry DoveBid
HORIBA Scientific
Norman N Axelrod
Assocs, Optical
Sensing &
Control Systems
Development Div

**DETECTORS,
THERMAL
CONDUCTIVITY**
Agilent Technologies
Blue Lion Biotech
Durex Industries
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Omega Engineering
Perkin Elmer Corp,
**Environmental
Health**
Restek Corp
Shimadzu Scientific
Instruments
Siemens Infrastructure +
Cities, Building
Technologies Div
Valco Instruments Co
(VIC)

DETECTORS, UV
Agilent Technologies
Aquionics
Blue Lion Biotech
BUCHI Corp
D-Star Instruments
Eppendorf
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
HORIBA Scientific
Industrial Hydrocarbons
LabX (Auctions)
Perkin Elmer Corp,
**Environmental
Health**
Pion
PJ Cobert Assocs
Quantum Analytics
Shimadzu Scientific
Instruments
Waters Corp, Waters Div

**DIALYSIS
MEMBRANES**
Cole-Parmer
GoIndustry DoveBid
**Spectrum Chemical
Mfg Corp**

**DIFFERENTIAL
SCANNING
CALORIMETERS**
GoIndustry DoveBid
Mettler Toledo, Lab

Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments

**DIFFERENTIAL
THERMAL ANALYSIS
MEASUREMENT
INSTRUMENTS**
Agilent Technologies
E Instruments Intl
Ellab
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
HEL
Hidden Analytical
Mettler Toledo, Lab
Perkin Elmer Corp,
**Environmental
Health**
Shimadzu Scientific
Instruments
Testo

**DIFFUSION CELL
APPARATUS**
Copley Scientific Ltd,
Sls Dept
GoIndustry DoveBid
Hanson Research Corp

**DIGITAL RATE
INDICATOR/
TOTALIZERS**
Cole-Parmer
FSI Technologies
GoIndustry DoveBid
Great Plains Industries
Omega Engineering

**DILUTORS/
DISPENSERS**
Filamatic, National
Instrument LLC
Fluid Metering

GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Millrock Technology
S-Curve Technologies
**Spectrum Chemical
Mfg Corp**
Valco Instruments Co
(VIC)

**DISINTEGRATION
TESTERS**
Copley Scientific Ltd,
Sls Dept
CroPharm
Distek
Equipment
Technology Co
GoIndustry DoveBid
Hanson Research Corp
Johanson Innovations
Natoli Engineering Co
Pharmatron
Testing Machines
Texture
Technologies Corp

**DISSOLUTION
ANALYSIS EQUIPMENT**
Agilent Technologies
Copley Scientific Ltd,
Sls Dept
Distek
Equipment
Technology Co
GoIndustry DoveBid
Hanson Research Corp
Johanson Innovations
Natoli Engineering Co
Pharmatron
Pion

**DISSOLVED OXYGEN
DETERMINATORS**
Cole-Parmer
GoIndustry DoveBid

Goyen Valve LLC,
Pentair Environmental
Systems
Harvard Apparatus
Regenerative
Medicine
Mettler Toledo,
Thornton
Mettler Toledo, Lab
**Spectrum Chemical
Mfg Corp**

**DISTILLATION
EQUIPMENT**
BUCHI Corp
BUCHI Labortechnik AG
Chemical Transfer
Partnership Corp,
(CTP Corp)
Cole-Parmer
De Dietrich Process
Systems
DJS Enterprises
GEA Process
Engineering, GEA
Pharma Systems
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Labconco Corp
NexGen Enviro Systems
Pope Scientific
**Spectrum Chemical
Mfg Corp**
Telstar North America

DNA SEQUENCERS
Agilent Technologies
Blue Lion Biotech
GoIndustry DoveBid
Norman N Axelrod
Assocs, Optical
Sensing &
Control Systems
Development Div

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Contact: Vincent Benenati
Tel: 973/661-7090 x35
Email: vab@atlanticscale.com

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Calibration Certificate #2736.01

ISO 9001:2008
Certificate No: 47572

DRYERS (SEE ALSO MANUFACTURING EQUIPMENT AND SUPPLIES SECTION)

3V COGEM
Alstom Power, Raymond Operations
Armfield Ltd., Industrial Div
Bry-Air
Charles Ross & Son Co
Cole-Parmer
Electron Microscopy Sciences
Evaporator Dryer Technologies
Freund-Vector Corp
GEA Process Engineering, GEA Pharma Systems
Glen Mills
GoIndustry DoveBid
Jaygo
Natoli Engineering Co
Procept nv
SP Scientific - HULL/VIRTIS/FTS
Spectrum Chemical Mfg Corp
Telstar North America
Terra Universal
The Grieve Corp
WA Hammond
Drierite Co Ltd
Werner Mathis USA, North America

DRYERS, GLASSWARE

3V COGEM
ARS Enterprises, ARS/Beverly Pacific Sterilizers
BioPro Intl
De Dietrich Process Systems
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
Girton Mfg Co, Pharmaceutical Div
Globe Scientific
GoIndustry DoveBid
Labconco Corp
Miele, Professional Products Div
Sani-Matic
Spectrum Chemical Mfg Corp

DRYERS, VACUUM

3V COGEM
AZO
Blue Lion Biotech
BÜCHI Labortechnik AG
Charles Ross & Son Co
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
DJS Enterprises
Evaporator Dryer Technologies
FPS Food & Pharma Systems Srl
GEA Process Engineering, GEA Pharma Systems
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Hosokawa Micron Powder Systems
Jaygo
Labconco Corp
Pink GmbH
Thermosysteme
Pope Scientific
Procept nv
SP Scientific - HULL/VIRTIS/FTS
SWECO
Telstar North America
Terra Universal

EFFUSIVITY TESTING

GoIndustry DoveBid

ELECTRODES, CARBON

BASI
GoIndustry DoveBid
Metrohm USA
Spectrum Chemical Mfg Corp

ELECTRODES, CONDUCTIVITY

BASI
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Metrohm USA
Mettler Toledo, Lab Omega Engineering
Spectrum Chemical Mfg Corp

ELECTRODES, KARL FISCHER

BASI
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
JM Science
Metrohm USA
Mettler Toledo, Lab

ELECTRODES, METALLIC

BASI
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Metrohm USA
Mettler Toledo, Lab
Spectrum Chemical Mfg Corp

ELECTRODES, PH

Agilent Technologies
BASI
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Metrohm USA
Mettler Toledo, Lab
Omega Engineering
Spectrum Chemical Mfg Corp

ELECTRODES, SPECIFIC ION

BASI
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
JM Science
Metrohm USA
Mettler Toledo, Lab
Omega Engineering
Spectrum Chemical Mfg Corp

ELECTRONIC TRANSMITTERS

Cole-Parmer
GoIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Masy Systems
Sensaphone

For vendor contact information, see Company Directory section.

ELECTROPHORESIS EQUIPMENT AND ACCESSORIES

Agilent Technologies
BioDesign of New York
Blue Lion Biotech
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Intech Bioscience LLC
MicroSolv
Technology Corp
Polymicro Technologies, Sub Molex
Spectrum Chemical Mfg Corp

ELECTROPHORESIS, CAPILLARY INSTRUMENTATION

Agilent Technologies
Blue Lion Biotech
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
MicroSolv
Technology Corp

ENVIRONMENTAL ROOMS AND CHAMBERS

Atlas Material Testing Technology LLC
Bahnsen Environmental Specialties, An EMCOR Co
BioCold Environmental
CARON Products & Services
Cole-Parmer
Darwin Chambers Co
EGC (Environmental Growth Chambers)
Eppendorf
ESPEC North America
FabOhio
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
HEMCO Corp
Isolation Systems
Labconco Corp
Liberty Industries
Nor-Lake
R Kraft (RKI)
Spectrum Chemical Mfg Corp
Terra Universal
Trax Industrial Products Corp, Trax CleanRoom Curtains Div

ENZYME ANALYZERS

GoIndustry DoveBid

ETO MONITORS

ENMET Corp
GoIndustry DoveBid
Process Tek
PureAire Monitoring Systems
Sensor Electronics Corp

EVAPORATORS

3V COGEM
Armfield Ltd., Industrial Div
Blue Lion Biotech
BÜCHI Corp
BÜCHI Labortechnik AG
Chemical Transfer Partnership Corp, (CTP Corp)
Cole-Parmer
De Dietrich Process Systems
Evaporator Dryer Technologies
GEA Process Engineering, GEA Pharma Systems
GoIndustry DoveBid

Isolation Systems
Jaygo
Kavon Filter Products Co
Keystone Filter, Met-Pro Corp
Labconco Corp
Mefiag, Met-Pro Corp
Meissner Filtration Products
Met - Pro Environmental Air Solutions - Flex-Kleen
MultiTherm LLC
Novasep
Pall Life Sciences, Biopharmaceuticals
Pope Scientific
Powder Systems Ltd
Robatel
Russell Finex
Sartorius Stedim North America
Spectrum Chemical Mfg Corp
SPX Flow Technology
Swagelok Co
SWECO
United Air Specialists, a CLARCOR Co
Watson-Marlow Pumps Group

EVAPORATORS, CENTRIFUGAL

Blue Lion Biotech
Cole-Parmer
GoIndustry DoveBid
Labconco Corp
Myers Vacuum Repair Services
Pope Scientific
Spectrum Chemical Mfg Corp

EXTRACTION APPARATUS

Armfield Ltd., Industrial Div
BÜCHI Corp
BÜCHI Labortechnik AG
CEM Corp
Cole-Parmer
GEA Process Engineering, GEA Pharma Systems
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Isolation Systems
Neutronics, Gas Analysis Solutions
Robatel
Spectrum Chemical Mfg Corp

FERMENTATION EQUIPMENT

Allegheny Bradford Corp, Corporate
Apache Stainless Equipment Corp
Appropriate Technical Resources
Bioengineering AG
BioPro Intl
Blue Lion Biotech
Cole-Parmer
DCI
DCI-Biolafitte
Eppendorf
Eppendorf
GEA Process Engineering, GEA Pharma Systems
GoIndustry DoveBid
Pope Scientific
Sartorius Stedim North America
Watson-Marlow Pumps Group
Wheaton Industries, Wheaton Science Packaging

FILTERING EQUIPMENT

3M Purification
3V COGEM
AirClean Systems
Allegheny Bradford Corp, Corporate
Atmos-Tech Industries
BHS-Filtration
BioPro Intl
Buchiglas-USA Corp
Chemical Transfer Partnership Corp, (CTP Corp)
Cole-Parmer
De Dietrich Process Systems
Flowmatics
GEA Process Engineering, GEA Pharma Systems
GoIndustry DoveBid

Meissner Filtration Products

MicroSolv
Technology Corp
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Parker domnick hunter, Process Filtration
Spectrum Chemical Mfg Corp

FILTERS, INCOMING WATER

3M Purification
GoIndustry DoveBid
Kavon Filter Products Co
Mar Cor Purification
Meissner Filtration Products
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Parker domnick hunter, Process Filtration
WA Hammond
Drierite Co Ltd

FILTERS, LIGHT AND COLOR

GoIndustry DoveBid
Kavon Filter Products Co
McCrone
Microscopes & Accessories

FILTERS, MEMBRANE

3M Purification
Bergen Industrial Supply Co
BioDesign of New York
Cole-Parmer
Flow Sciences
GEA Process Engineering, GEA Pharma Systems
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Kavon Filter Products Co
Mar Cor Purification
Meissner Filtration Products
MicroSolv
Technology Corp
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Parker domnick hunter, Process Filtration
PJ Covert Assocs
Qosina
Sartorius Stedim North America
Spectrum Chemical Mfg Corp

FILTERS, PAPER

Cole-Parmer
Flow Sciences
General Lab & Cleanroom Supply, dba General Lab Supply
GoIndustry DoveBid
Kavon Filter Products Co
Keystone Filter, Met-Pro Corp
Mefiag, Met-Pro Corp
Pall Life Sciences, Biopharmaceuticals
Spectrum Chemical Mfg Corp

FILTERS, TESTING APPARATUS

3V COGEM
Air Techniques Intl (ATI)

Atlas Material Testing
Technology LLC
BHS-Filtration
Chemical Transfer
Partnership Corp,
(CTP Corp)
GoIndustry DoveBid
**Meissner Filtration
Products**
Pall Corp, Life Sciences
Group
Pall Life Sciences,
Biopharmaceuticals

**FLAME
PHOTOMETERS**
Cole-Parmer
GoIndustry DoveBid
Process Tek

**FLOW CONTROL
SYSTEMS**
Acro Assocs
Badger Meter
BinMaster, Div Garner
Industries
Blacoh Fluid Control
Burkert Fluid Control
Isolation Systems
Cole-Parmer
Durex Industries
Dwyer Instruments
GEA Process
Engineering, GEA
Pharma Systems
GF Piping Systems
GoIndustry DoveBid
Great Plains Industries
Greyline Instruments
Hanson Research Corp
Harvard Apparatus
Regenerative
Medicine
Hoffer Flow Controls
Isolation Systems
Jenike & Johanson
Krohne
Magnetrol Intl
McMillan Co
Mesa Labs
MKS Instruments
Niagara Meters
Omega Engineering
Rockwell Automation
Sani-Matic
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
Sierra Instruments

FLOWMETERS
AZO
Badger Meter
Bergen Industrial
Supply Co
BinMaster, Div Garner
Industries
Blue Lion Biotech
Cole-Parmer
Copley Scientific Ltd,
Sls Dept
Dwyer Instruments
EXAIR Corp
GF Piping Systems
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Great Plains Industries
Greyline Instruments
HEMCO Corp
Hoffer Flow Controls
Integrated Gas Services
Isolation Systems
Krohne
Magnetrol Intl
McMillan Co
Mesa Labs
Mettler Toledo,
Thornton
MKS Instruments
Newport Electronics
Niagara Meters
Omega Engineering
PJ Cobert Assocs
Renco Corp

Restek Corp
Rice Lake Weighing
Systems
RJM Sales
Rockwell Automation
Siemens Industry,
Automation & Drive
Technologies
Sierra Instruments
**Spectrum Chemical
Mfg Corp**
Terra Universal
WILCO AG
Yokogawa Corp of
America

**FLOWMETERS,
SANITARY DESIGN**
AZO
Badger Meter
Bergen Industrial
Supply Co
Cole-Parmer
GF Piping Systems
GMP Systems
GoIndustry DoveBid
Great Plains Industries
Hoffer Flow Controls
Isolation Systems
Krohne
McMillan Co
Mettler Toledo,
Thornton
MKS Instruments
Niagara Meters
Omega Engineering
Process Tek
Siemens Industry,
Automation & Drive
Technologies
Sierra Instruments
Yokogawa Corp of
America

**FRACTION
COLLECTORS**
Blue Lion Biotech
BUCHI Corp
Copley Scientific Ltd,
Sls Dept
D-Star Instruments
Flownamics
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
MicroSolv
Technology Corp
Shimadzu Scientific
Instruments
**Spectrum Chemical
Mfg Corp**

FREEZERS
Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
BioPro Intl
Blue Lion Biotech
Cole-Parmer
Darwin Chambers Co
EGC (Environmental
Growth Chambers)
Eppendorf
Eppendorf
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Nor-Lake
NuAire
Polar Tech Industries
Powers Scientific
So-Low Environmental
Equipment Co
**Spectrum Chemical
Mfg Corp**
Woodley
Equipment Co Ltd

**FREEZING POINT
APPARATUS**
GoIndustry DoveBid
**Spectrum Chemical
Mfg Corp**

FRIABILATORS
Copley Scientific Ltd,
Sls Dept
Distek
GoIndustry DoveBid
Key Intl
**Natoli Engineering Co
Pharmatron**

**FRITS,
CHROMATOGRAPHIC
COLUMN**
GoIndustry DoveBid
MicroSolv
Technology Corp
Mott Corp
**Spectrum Chemical
Mfg Corp**

FURNACES
CEM Corp
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
**Spectrum Chemical
Mfg Corp**
Terra Universal
The Grieve Corp

**FURNITURE,
LABORATORY**
BioFit Engineered
Products
Blue Thunder
Technologies
CleanZones LLC
Cleatech LLC
Cole-Parmer
Darwin Chambers Co
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
HEMCO Corp
Isolation Systems
Justrite Mfg Co
Kewaunee
Scientific Corp
Liberty Industries
**Natoli Engineering Co
NuAire**
Plug-In Storage
Systems /PSSI
**Spectrum Chemical
Mfg Corp**
STAXS Belgium
Terra Universal
Town & Country Plastics

GAS ANALYZERS
ABB Analytical
Measurement
Agilent Technologies
Arizona Instrument LLC
Blue Lion Biotech
Cole-Parmer
Dwyer Instruments
E Instruments Intl
ENMET Corp
GoIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental
Systems
Mettler Toledo, Lab
MKS Instruments
Neutronics, Gas
Analysis Solutions
Nova Biomedical
Palmer Wahl
Temperature Products
PureAire Monitoring
Systems
Sensor Electronics Corp
Siemens Industry,
Automation & Drive
Technologies
**Spectrum Chemical
Mfg Corp**
Teledyne Tekmar
WILCO AG
Woodley
Equipment Co Ltd

GAS MIXTURES
GoIndustry DoveBid

GLASSWARE
3V COGEIM
Blue Thunder
Technologies
Cole-Parmer
CSR Pharma Services
General Lab & Cleanroom
Supply, dba General
Lab Supply
Gerresheimer AG
Globe Scientific
GoIndustry DoveBid
JG Finneran Assocs
Labconco Corp
LabX (Auctions)
Millrock Technology
PJ Cobert Assocs
Pope Scientific
**Spectrum Chemical
Mfg Corp**
Wheaton Industries,
Wheaton Science
Packaging

GLOVES
Ansell Protective
Products,
Occupational
Healthcare Div
Blue Thunder
Technologies
Cole-Parmer
CSR Pharma Services
Enguard Systems,
Div Containment
Technologies Group
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Isolation Systems
Labconco Corp
Liberty Industries
Qosina
Renco Corp
Ronco
Shoe Inn
**Spectrum Chemical
Mfg Corp**
STAXS Belgium
Terra Universal
Wells Lamont Industrial

**GRANULATORS,
VACUUM,
MICROWAVE**
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
Jaygo

HEATING DEVICES
Chemical Transfer
Partnership Corp,
(CTP Corp)
Cole-Parmer
Custom Heat LLC
Durex Industries
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Julabo USA
MultiTherm LLC
Omega Engineering
Process Technology
Restek Corp
Woodley
Equipment Co Ltd

HOMOGENIZERS
AC Compacting LLC
APV, An SPX Brand,
SPX Flow Technology
Armfield Ltd,
Industrial Div
Avestin
BEE Intl
BioSpec Products
Charles Ross & Son Co
Cole-Parmer
Electron Microscopy
Sciences

Federal Equipment Co
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Jaygo
Kinematica
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
PRO Scientific
Process Tek
Retsch
Sonics & Materials,
Vibra-Cell
**Spectrum Chemical
Mfg Corp**

HOODS, FUME
AirClean Systems
Atmos-Tech Industries
Baker Co, The
Biosero LLC
Blue Lion Biotech
Blue Thunder
Technologies
CleanZones LLC
Cleatech LLC
Cole-Parmer
Design Filtration
Federal Equipment Co
Flow Sciences
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
HEMCO Corp
Industrial Hydrocarbons
Isolation Systems
Kewaunee
Scientific Corp
Labconco Corp
LabX (Auctions)
Laminar Flow
Liberty Industries
McGill AirFlow LLC
Met - Pro Environmental
Air Solutions - Dual
NuAire
R Kraft (RKI)
**Spectrum Chemical
Mfg Corp**
Tri-Mer Corp

**HOODS,
LAMINAR-FLOW**
AirClean Systems
Atmos-Tech Industries
Baker Co, The
Bausch Advanced
Technologies
Biosero LLC
Blue Lion Biotech
Blue Thunder
Technologies
CleanZones LLC
Cleatech LLC
Design Filtration
Enguard Systems,
Div Containment
Technologies Group
Flow Sciences
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
HEMCO Corp
Industrial Hydrocarbons
International
Portland Corp
Isolation Systems
Kewaunee
Scientific Corp
Labconco Corp
Laminar Flow
Liberty Industries
NuAire
R Kraft (RKI)
Simplex Isolation Systems,
Div Simplex Strip Doors
**Spectrum Chemical
Mfg Corp**
Telstar North America
Terra Universal

**HUMIDITY
CONTROLLERS**
BioCold Environmental
Bry-Air
**CARON Products &
Services**
Cole-Parmer
Control Co
CSR Pharma Services
Dwyer Instruments
E Instruments Intl
Enguard Systems,
Div Containment
Technologies Group
GoIndustry DoveBid
Isolation Systems
JS Humidifiers PLC
L & C Science and
Technology
Newport Electronics
Rotronic
Instrument Corp
Siemens Infrastructure +
Cities, Building
Technologies Div
**Spectrum Chemical
Mfg Corp**
Terra Universal
Vaisala
WA Hammond
Drierite Co Ltd
Yokogawa Corp of
America

HUMIDITY METERS
Cole-Parmer
Control Co
CSR Pharma Services
Decagon Devices
DeltaTRAK
Dickson
Dwyer Instruments
E Instruments Intl
GoIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Isolation Systems
JS Humidifiers PLC
Lighthouse Worldwide
Solutions
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Rotronic
Instrument Corp
Siemens Infrastructure +
Cities, Building
Technologies Div
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
Vaisala
Yokogawa Corp of
America

**HUMIDITY
RECORDERS**
ACR Systems
BioCold Environmental
Cole-Parmer
CSR Pharma Services
DeltaTRAK
Dickson
Dwyer Instruments
E Instruments Intl
Ellab
GoIndustry DoveBid
Isolation Systems
JS Humidifiers PLC
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Rotronic
Instrument Corp
Siemens Infrastructure +
Cities, Building
Technologies Div
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
TMI USA
Vaisala
Yokogawa Corp of
America

IMAGE ANALYSIS EQUIPMENT, SINGLE-WIRE DETECTOR

Fluid Imaging Technologies
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div

INCUBATORS

BioCold Environmental
Blue Lion Biotech
CARON Products & Services
Cole-Parmer
Darwin Chambers Co
Electron Microscopy Sciences
Eppendorf
Eppendorf
Federal Equipment Co
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
GolIndustry DoveBid
Nor-Lake
NuAire
Powers Scientific
Rice Lake Weighing Systems
Spectrum Chemical Mfg Corp
Terra Universal
Torrey Pines Scientific
Woodley
Equipment Co Ltd

INDICATORS, LEVEL

Assmann Corp of America
Automation Products, Dynatrol @ Div
AZO
BinMaster, Div Garner Industries
Cole-Parmer
FSI Technologies
GMP Systems
GolIndustry DoveBid
Goyen Valve LLC,
Pentair Environmental Systems
Mesa Labs
Newport Electronics
Omega Engineering
Sierra Instruments
Spectrum Chemical Mfg Corp
Uehling Instrument Co
Yokogawa Corp of America

INDICATORS, PRESSURE

Ashcroft
Bergen Industrial Supply Co
Cole-Parmer
Control Co
Dickson
Dwyer Instruments
Ellab
GMP Systems
GolIndustry DoveBid
MKS Instruments
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
PJ Cobert Assocs
Spectrum Chemical Mfg Corp
Swagelok Co
Testo
TMI USA
Uehling Instrument Co
Yokogawa Corp of America

INDUSTRIAL CONTROL DEVICES

Automation Products, Dynatrol @ Div
BinMaster, Div Garner Industries

Durex Industries
FSI Technologies
GolIndustry DoveBid
Hoffer Flow Controls
MKS Instruments
Neutronics, Gas Analysis Solutions
Newport Electronics
Omega Engineering
Sierra Instruments
TMI USA
Yokogawa Corp of America

INSPECTION DEVICES, CANS

AGR Intl
FSI Technologies
Global Vision
GolIndustry DoveBid
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
OCS Checkweighers
Process Tek
PTI Packaging Technologies & Inspection LLC
Teledyne DALSA
Tri-Tronics Co
WILCO AG

INSPECTION DEVICES, CAPS AND NECK SEALS

AGR Intl
American Plastics Technologies - Rao Design Intl
Bosch Inspection Technology
FSI Technologies
GolIndustry DoveBid
I Holland Ltd
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
Nikka Densok USA
NJM Packaging
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
OCS Checkweighers
Optel Vision
PTI Packaging Technologies & Inspection LLC
Teledyne DALSA
Tri-Tronics Co
Victor Intl Mktg
WILCO AG

INSPECTION DEVICES, CAPSULES

ABB Analytical Measurement
AC Compacting LLC
Bosch Inspection Technology
Driam USA
Equipment Technology Co
Eriez
Fortress Technology
FSI Technologies
GolIndustry DoveBid
ISRA Surface Vision, Sub ISRA Vision AG
Lock Inspection Systems
Loma Systems / Lock Inspection Systems
OCS Checkweighers
Optel Vision
Teledyne DALSA
Tri-Tronics Co
Victor Intl Mktg

Service Industries
Symetix
Teledyne DALSA
TRICOR Systems

INSPECTION DEVICES, CODE SCANNING

Auto-Mate Technologies LLC
Bosch Inspection Technology
Complete Inspection Systems
FSI Technologies
Global Vision
GolIndustry DoveBid
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
OCS Checkweighers
Optel Vision
Product Identification & Processing Systems
Teledyne DALSA
Tri-Tronics Co

INSPECTION DEVICES, FOREIGN MATTER

AC Compacting LLC
AGR Intl
Bosch Inspection Technology
Eriez
Fortress Technology
FSI Technologies
GolIndustry DoveBid
HORIBA Scientific
ISRA Surface Vision, Sub ISRA Vision AG
Lenox Instrument Co
Lock Inspection Systems
Loma Systems / Lock Inspection Systems
LT Industries
Micro Measurement Labs
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
OCS Checkweighers
Optel Vision
Symetix
Teledyne DALSA
Victor Intl Mktg

INSPECTION DEVICES, FULL CASE

Eriez
Fortress Technology
FSI Technologies
GolIndustry DoveBid
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
Loma Systems / Lock Inspection Systems
OCS Checkweighers
Optel Vision
Teledyne DALSA
Tri-Tronics Co
Victor Intl Mktg

INSPECTION DEVICES, LABELS

Auto-Mate Technologies LLC
Complete Inspection Systems
FSI Technologies
Global Vision
GolIndustry DoveBid
ISRA Surface Vision, Sub ISRA Vision AG
Kaps-All Packaging Systems
Label Mill
LGIntl
MNEMONICS
NJM Packaging
Norman N Axelrod Assocs, Optical Sensing &

Control Systems Development Div
OCS Checkweighers
Optel Vision
Teledyne DALSA
Tri-Tronics Co

INSPECTION DEVICES, LIQUID LEVEL

AGR Intl
Assmann Corp of America
Bosch Inspection Technology
Eriez
FSI Technologies
GolIndustry DoveBid
Kaps-All Packaging Systems
Krohne
NJM Packaging
OCS Checkweighers
Optel Vision
Teledyne DALSA
Tri-Tronics Co
Victor Intl Mktg

INSPECTION DEVICES, PRESSURE

AGR Intl
American Plastics Technologies - Rao Design Intl
Ashcroft
Bosch Inspection Technology
GolIndustry DoveBid
InterTech Development Co
NJM Packaging
PTI Packaging Technologies & Inspection LLC
Sephia Ltd
Service Industries
Siemens Infrastructure + Cities, Building Technologies Div
TMI USA

INSPECTION DEVICES, TABLETS

ABB Analytical Measurement
AC Compacting LLC
Ackley Machine Corp
Bosch Inspection Technology
Driam USA
Equipment Technology Co
Eriez
Fortress Technology
FSI Technologies
GolIndustry DoveBid
I Holland Ltd
Key Intl
Loma Systems / Lock Inspection Systems
Natoli Engineering Co
NJM Packaging
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
OCS Checkweighers
Optel Vision
Proditac
Qualicaps
RW Hartnett Co
Service Industries
Symetix
Teledyne DALSA
TRICOR Systems

INSTRUMENTS FOR MEASURING PARTICLE CONCENTRATION

Automation Products, Dynatrol @ Div
Bosch Inspection Technology
Climet Instruments Co
Fluid Imaging Technologies
GolIndustry DoveBid

Lighthouse Worldwide Solutions
Micro Measurement Labs
Norman N Axelrod Assocs, Optical Sensing & Control Systems Development Div
Particle Measuring Systems
Particle Sizing Systems

KJELDAHL APPARATUS

BUCHI Corp
BÜCHI Labortechnik AG
GolIndustry DoveBid
Labconco Corp
Spectrum Chemical Mfg Corp

LABWARE

Blue Thunder Technologies
Cole-Parmer
CSols
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
GolIndustry DoveBid
JG Finneran Assocs
Qosina
Saint-Gobain Performance Plastics
Spectrum Chemical Mfg Corp

LABWARE, PTFE

Blue Thunder Technologies
Cole-Parmer
CSR Pharma Services
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
JG Finneran Assocs
Saint-Gobain Performance Plastics
Spectrum Chemical Mfg Corp

LIMULUS AMEBOCYTE LYSATE (PYROGENICITY TESTING)

GolIndustry DoveBid

LIQUID LEVEL SENSORS

Automation Products, Dynatrol @ Div
BioPro Intl
Burkert Fluid Control Systems
Cole-Parmer
Dwyer Instruments
GolIndustry DoveBid
Great Plains Industries
Greyline Instruments
Krohne
Magnetrol Intl
Niagara Meters
Omega Engineering
Process Technology
Sensaphone
Siemens Infrastructure + Cities, Building Technologies Div
Sierra Instruments
Status Instruments
Town & Country Plastics
Uehling Instrument Co

LIQUID SCINTILLATION COUNTING EQUIPMENT AND SUPPLIES

Blue Lion Biotech
Globe Scientific
GolIndustry DoveBid

LYOPHILIZERS (FREEZE DRYERS)

Appropriate Technical Resources
BioPro Intl
Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
Labconco Corp
McCrone Microscopes & Accessories
Millrock Technology
Optima Pharma, Optima Machinery Corp
SP Scientific - HULL/ VIRTIS/FTS
Spectrum Chemical Mfg Corp
Telstar North America
Victor Intl Mktg

MACHINE VISION SYSTEMS

AC Compacting LLC
AGR Intl
Bosch Inspection Technology
FSI Technologies
GolIndustry DoveBid
NJM Packaging
Optel Vision
Optical Gaging Products (OGP), Quality Vision Intl
RAM Optical Instrumentation (RAM)
TRICOR Systems
Victor Intl Mktg
VIEW Micro-Metrology, Quality Vision Intl

MANOMETERS

Ashcroft
Beames
BUCHI Corp
Cole-Parmer
Control Co
Dwyer Instruments
E Instruments Intl
GolIndustry DoveBid
Isolation Systems
MKS Instruments
Omega Engineering
Spectrum Chemical Mfg Corp
Testo
Uehling Instrument Co

MASS SPECTROMETERS AND ACCESSORIES

Agilent Technologies
Blue Lion Biotech
Bruker, Daltonics
Cole-Parmer
GolIndustry DoveBid
Harvard Apparatus Regenerative Medicine
Hidden Analytical
Leak Detection Assocs
MicroLiter Analytical Supplies
MKS Instruments
Perkin Elmer Corp, Environmental Health
Pfeiffer Vacuum
Quantum Analytics
Shimadzu Scientific Instruments
Siemens Industry, Automation & Drive Technologies
Waters Corp, Waters Div

MELTING POINT APPARATUS

BUCHI Corp
BÜCHI Labortechnik AG
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Mettler Toledo, Lab
Spectrum Chemical Mfg Corp

MEMBRANE FILTRATION APPARATUS AND SUPPLIES

BioDesign of New York
Cole-Parmer
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
PJ Cobert Assocs
Spectrum Chemical Mfg Corp

METABOLISM CHAMBERS

GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine

METAL DETECTORS

Cole-Parmer
Fortress Technology
Global Equipment, Magnetics Div
GolIndustry DoveBid
Key Intl
Lock Inspection Systems
Loma Systems / Lock Inspection Systems
Magnetics Div, Global Equipment Mktg
Natoli Engineering Co
OCS Checkweighers

MICROBIOLOGY ANALYZERS

Bruker, Daltonics
GolIndustry DoveBid
Pall Life Sciences, Biopharmaceuticals

MICROCALORIMETERS

GolIndustry DoveBid
Perkin Elmer Corp, Environmental Health

MICROCOMPUTER SYSTEMS (SEE ALSO IT SOLUTIONS SECTION)

GolIndustry DoveBid

MICROPLATE READERS

BioDesign of New York
Blue Lion Biotech
Brendan Technologies
Cole-Parmer
Cosense
Eppendorf
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
LabX (Auctions)

MICROPLATE WASHERS

Blue Lion Biotech
Cole-Parmer
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
GolIndustry DoveBid
Spectrum Chemical Mfg Corp

MICROSCOPE SLIDES

Blue Thunder Technologies
CSR Pharma Services

MICROSCOPES

Blue Thunder Technologies
Carltext

CSR Pharma Services
McCrone Microscopes & Accessories
Natoli Engineering Co

MICROSCOPES, DISSECTING

Accu-Scope
Blue Thunder Technologies
Carltext
Cole-Parmer
CSR Pharma Services
GolIndustry DoveBid
Keyence Corp of America

MICROSCOPES, RESEARCH

Accu-Scope
Blue Lion Biotech
Blue Thunder Technologies
Carltext
Cole-Parmer
CSR Pharma Services
Gateway Analytical
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Keyence Corp of America
LabX (Auctions)
McCrone Microscopes & Accessories
Natoli Engineering Co
Spectrum Chemical Mfg Corp
Woodley Equipment Co Ltd

MICROWAVE INSTRUMENTATION

Anton PAAR USA
CEM Corp
Electron Microscopy Sciences
GolIndustry DoveBid
Perkin Elmer Corp, Environmental Health
Precept nv

MOISTURE ANALYZERS

ABB Analytical Measurement
Arizona Instrument LLC
CEM Corp
Control Co
CW Brabender Instruments
Decagon Devices
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Hidden Analytical
LT Industries
Metrohm USA
Mettler Toledo, Lab MoistTech Corp
Natoli Engineering Co
Omega Engineering
Rice Lake Weighing Systems
Sartorius Stedim North America
Siemens Infrastructure + Cities, Building Technologies Div
Spectrum Chemical Mfg Corp
Surface Measurement Systems
Thermo Fisher Scientific, Portable Optical Analyzers
WILCO AG

MOISTURE DETERMINATION APPARATUS

ABB Analytical Measurement

Atlantic Scale Co

CEM Corp
Cole-Parmer
Decagon Devices
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Hidden Analytical
Mettler Toledo, Lab Surface Measurement Systems

MOLECULAR WEIGHT ANALYZERS

Bruker, Daltonics
GolIndustry DoveBid
Malvern Instruments
Wyatt Technology

NITROGEN DETERMINATION APPARATUS

BUCHI Corp
GolIndustry DoveBid
Labconco Corp
Neutronics, Gas Analysis Solutions
Spectrum Chemical Mfg Corp
Teledyne Tekmar

OSMOMETERS

Elitech Biomedical Systems
GolIndustry DoveBid
Nova Biomedical

OVENS

BUCHI Corp
CEM Corp
Cole-Parmer
Darwin Chambers Co
ESPEC North America
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Spectrum Chemical Mfg Corp
Terra Universal
The Grieve Corp
Werner Mathis USA, North America
Woodley Equipment Co Ltd

OXYGEN DETERMINERS

Cole-Parmer
GolIndustry DoveBid
Goyen Valve LLC, Pentair Environmental Systems
Mettler Toledo, Thornton
Mettler Toledo, Lab Neutronics, Gas Analysis Solutions
Pentair Haffmans

PARTICLE-SHAPE ANALYZERS

Aspex Corp, An FEI Co, Analytical Services
CILAS, DPNS/II
Fluid Imaging Technologies
GolIndustry DoveBid
HORIBA Instruments, Scientific
Hosokawa Micron Powder Systems
Malvern Instruments
Micro Measurement Labs
Micromeritics Instrument Corp

PARTICLE-SIZE ANALYZERS

Alstom Power, Raymond Operations
Aspex Corp, An FEI Co, Analytical Services
California Measurements
CILAS, DPNS/II

Climet Instruments Co
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany

Federal Equipment Co

Fluid Imaging Technologies
Gateway Analytical
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
HORIBA Instruments, Scientific
Hosokawa Micron Powder Systems
Johanson Innovations
LabX (Auctions)
Lighthouse Worldwide Solutions
Malvern Instruments
Masy Systems
Micro Measurement Labs
Micromeritics Instrument Corp
Particle Sizing Systems
Shimadzu Scientific Instruments
Synbiosis
Texture Technologies Corp
Thermo Fisher Scientific, Portable Optical Analyzers
WS Tyler
Wyatt Technology

PARTICLE-SIZE SEPARATORS

Alstom Power, Raymond Operations
Glen Mills
GolIndustry DoveBid
Great Western Mfg Co
Hosokawa Micron Powder Systems
Powdersize WS Tyler
Wyatt Technology

PARTICLES, CALIBRATION

Bangs Labs
GolIndustry DoveBid
Hosokawa Micron Powder Systems
Micro Measurement Labs
Particle Sizing Systems
US Pharmacopeia (USP)

PARTICLES, FLUORESCENT

Bangs Labs
GolIndustry DoveBid
Micro Measurement Labs
Natoli Engineering Co

PENETROMETERS

Air Techniques Intl (ATI)
Cole-Parmer
GolIndustry DoveBid
Micromeritics Instrument Corp
Texture Technologies Corp

PH METERS AND ACCESSORIES

Buchiglas-USA Corp
CHEMetrics
Cole-Parmer
DeltaTRAK
Electron Microscopy Sciences
General Lab & Cleanroom Supply, dba General Lab Supply
GF Piping Systems
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
HORIBA Instruments, Scientific
LabX (Auctions)
Lovibond Tintometer
Marathon Products

Metrohm USA
Mettler Toledo, Thornton
Mettler Toledo, Lab Newport Electronics
Omega Engineering
Rice Lake Weighing Systems
Spectrum Chemical Mfg Corp
Testo
Yokogawa Corp of America

PHOTOMETERS

Air Techniques Intl (ATI)
Artel
Eppendorf
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Lovibond Tintometer
Mettler Toledo, Lab optek-Danulat
Spectrum Chemical Mfg Corp
TRICOR Systems

PHOTOSTABILITY TEST CHAMBERS

Atlas Material Testing Technology LLC
Bahnon Environmental Specialties, An EMCOR Co
CARON Products & Services
GolIndustry DoveBid
Powers Scientific
Q-Lab Corp, Headquarters & Instrument Div

PIPETTES, DISPOSABLE

Blue Thunder Technologies
Cole-Parmer
CSR Pharma Services
Eppendorf
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
GolIndustry DoveBid
LabX (Auctions)
McCrone Microscopes & Accessories
Qosina
Rice Lake Weighing Systems
Spectrum Chemical Mfg Corp
Woodley Equipment Co Ltd

PIPETTING SYSTEMS

Artel
Atlantic Scale Co
Blue Lion Biotech
Cole-Parmer
CSR Pharma Services
Eppendorf
Fluid Metering
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
GolIndustry DoveBid
LabX (Auctions)
Spectrum Chemical Mfg Corp
Wheaton Industries, Wheaton Science Packaging

PIPETTOR CALIBRATION SYSTEMS

Artel
Atlantic Scale Co
Cole-Parmer
CSR Pharma Services
Eppendorf
GolIndustry DoveBid

PLATELET (BLOOD) AGGREGATION PROFILERS

GolIndustry DoveBid

PLATELET (BLOOD) AGGREGATION REAGENTS

GolIndustry DoveBid

POLARIMETERS, AUTOMATIC

Anton PAAR USA
Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
PDR-Chemical LLC
Spectrum Chemical Mfg Corp

POROSITY ANALYZERS

GolIndustry DoveBid
Micromeritics Instrument Corp

POWDER FLOWABILITY

Bosch Packaging Technology, Pharma Brookfield
Engineering Labs
Freeman Technology
Hanson Research Corp
Jenike & Johanson
Natoli Engineering Co

POWDER TESTING/TESTER

ABB Analytical Measurement
Bosch Packaging Technology, Pharma Brookfield
Engineering Labs
Freeman Technology
GolIndustry DoveBid
Hanson Research Corp
Jenike & Johanson
Natoli Engineering Co

PRESSURE GAUGES

Ashcroft
Blacoh Fluid Control
Cole-Parmer
Dwyer Instruments
E Instruments Intl
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
GolIndustry DoveBid
Isolation Systems
Krohne
MKS Instruments
Omega Engineering
Palmer Wahl
Temperature Products
PJ Cobert Assocs
Siemens Industry, Automation & Drive Technologies
Siemens Infrastructure + Cities, Building Technologies Div
Spectrum Chemical Mfg Corp
Swagelok Co

PROCESS INSTRUMENTATION

ABB Analytical Measurement

For vendor contact information, see Company Directory section.

ACR Systems
Acromag
Anton PAAR USA
Arizona Instrument LLC
Atlantic Scale Co

Automation Products,
Dynatrol @ Div
Badger Meter
Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
Brookfield
Engineering Labs
Cole-Parmer
Cosense
Dwyer Instruments
E Instruments Intl
Eppendorf
GEA Process
Engineering, GEA
Pharma Systems
GF Piping Systems
GoIndustry DoveBid
JH Technology
Kistler Morse
Krohne
LT Industries
Magnetrol Intl
Malvern Instruments
Metrohm USA
MKS Instruments
Neutronics, Gas
Analysis Solutions
optek-Danulat
Palmer Wahl
Temperature Products
Particle Sizing Systems
PDR-Chemical LLC
Renco Corp
Siemens Industry,
Automation & Drive
Technologies
Sierra Instruments
Status Instruments
Surface Measurement
Systems
Swagelok Co
Yokogawa Corp of
America

PROTEIN ANALYZERS

ABB Analytical
Measurement
Agilent Technologies
Blue Lion Biotech
Bruker, Daltonics
BÜCHI Labortechnik AG
CEM Corp
Fluid Imaging
Technologies
GoIndustry DoveBid
Malvern Instruments
Metrohm USA
Pall Life Sciences,
Biopharmaceuticals
Perkin Elmer Corp,
Environmental
Health
Spectrum Chemical
Mfg Corp

PROTEIN PURIFICATION/ SEPARATION EQUIPMENT

Agilent Technologies
BioPro Intl
Bruker, Daltonics
BÜCHI Labortechnik AG
Celeros
D-Star Instruments
GEA Process Engineering,
GEA Pharma Systems
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Pall Corp, Life Sciences
Group
Pall Life Sciences,
Biopharmaceuticals

PROTEIN SEQUENCERS

Agilent Technologies
Blue Lion Biotech
GoIndustry DoveBid

PROTEIN SEQUENCING

Agilent Technologies
Blue Lion Biotech
GoIndustry DoveBid

PUMPS

Bosch Packaging
Technology, Pharma
BÜCHI Corp
Bullard
Burbert Fluid Control
Systems
Cole-Parmer
Control Co
Copley Scientific Ltd,
Sls Dept
De Dietrich Process
Systems
Fluid Metering
Fristam Pumps USA
Glen Mills
GMP Systems
GoIndustry DoveBid
Hanson Research Corp
Harvard Apparatus
Regenerative
Medicine
ITT Engineered Valves
Met - Pro Global Pump
Solutions - Dean
Pump
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Moyno
Nash, A Gardner Denver
Product
Pfeiffer Vacuum
Piab
PJ Cobert Assocs
Spectrum Chemical
Mfg Corp
Terra Universal
Town & Country Plastics
Unibloc-Pump,
Flowtech Div
Watson-Marlow Pumps
Group
Woodley
Equipment Co Ltd

PYCNOMETERS

GoIndustry DoveBid
Mettler Toledo, Lab
Micromeritics
Instrument Corp
Spectrum Chemical
Mfg Corp

PYROGEN TESTING KITS

GoIndustry DoveBid
Spectrum Chemical
Mfg Corp

QUALITY ASSURANCE EQUIPMENT

ABB Analytical
Measurement
Advantest America
AGR Intl
American Plastics
Technologies - Rao
Design Intl
Arizona Instrument LLC
Artel
ATS RheoSystems,
Cannon Instrument Co
Beamex
CEM Corp
Certified Comparator
Products, Quality
Vision Intl
Cole-Parmer
comes compliance
services
DeltaTRAK
Distek
E Instruments Intl
Ellab
Food Technology Corp
Fortress Technology
Global Vision
GoIndustry DoveBid

Hanson Research Corp
Kirby Lester LLC
LT Industries
Metrohm USA
Mettler Toledo, Lab
Natoli Engineering Co
Norman N Axelrod
Assocs, Optical
Sensing &
Control Systems
Development Div
OCS Checkweighers
Optical Gaging
Products (OGP),
Quality Vision Intl
Pharmatron
PTI Packaging
Technologies &
Inspection LLC
QMI
RAM Optical
Instrumentation (RAM)
Rapid Micro
Biosystems
Sepha Ltd
Teledyne DALSA
Teledyne Tekmar
Testing Machines
Thermo Fisher Scientific,
Portable Optical
Analyzers
VIEW Micro-Metrology,
Quality Vision Intl

REACTION

CALORIMETERS
Cole-Parmer
GoIndustry DoveBid
HEL

REACTORS, AUTOMATED

3V COGEIM
Buchigas-USA Corp
Charles Ross & Son Co
De Dietrich Process
Systems
GMP Systems
GoIndustry DoveBid
HEL
Pope Scientific

RECORDERS, CHARTS AND ACCESSORIES

Carltex
Cole-Parmer
DeltaTRAK
Dickson
Dwyer Instruments
Ellab
GoIndustry DoveBid
Masy Systems
Newport Electronics
Palmer Wahl
Temperature Products
PJ Cobert Assocs
Spectrum Chemical
Mfg Corp
Terra Universal
Yokogawa Corp of
America

REFRACTOMETERS

Anton PAAR USA
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Mettler Toledo, Lab
Omega Engineering
Spectrum Chemical
Mfg Corp
Wyatt Technology

REFRIGERATORS

Bahnsen Environmental
Specialties, An
EMCOR Co
BioCold Environmental
CARON Products & Services
Cole-Parmer
Darwin Chambers Co

General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Nor-Lake
Polar Tech Industries
Powers Scientific
So-Low Environmental
Equipment Co
Spectrum Chemical
Mfg Corp
Woodley
Equipment Co Ltd

RESISTIVITY PROBES

Cole-Parmer
GoIndustry DoveBid
Mettler Toledo,
Thornton
Omega Engineering
Spectrum Chemical
Mfg Corp

REVERSE OSMOSIS MEMBRANE EQUIPMENT

Cole-Parmer
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GoIndustry DoveBid
Labconco Corp
Novasep
Spectrum Chemical
Mfg Corp
SPX Flow Technology

RHEOMETERS

AC Compacting LLC
Anton PAAR USA
ATA RheoSystems,
Cannon Instrument Co
Brookfield
Engineering Labs
CW Brabender
Instruments
Freeman Technology
GoIndustry DoveBid
Malvern Instruments
Texture
Technologies Corp
Thermo Scientific,
Chemical Analysis
Div-Material
Characterization
Business

ROBOTICS, LABORATORY

Agilent Technologies
Artel
Biosero LLC
Blue Lion Biotech
Bruker, Daltonics
Eppendorf
GoIndustry DoveBid
HEMCO Corp
PRO Scientific
Stäubli, Robotics
Zinsser North America

SAMPLE PREPARATION INSTRUMENTATION

Agilent Technologies
Anton PAAR USA
Bruker, Daltonics
BÜCHI Corp
CEM Corp
Cole-Parmer
CW Brabender
Instruments
Eppendorf
Flownamics
GoIndustry DoveBid
Hanson Research Corp
Harvard Apparatus
Regenerative
Medicine
Kebby Industries
Labconco Corp
McCrone Microscopes &
Accessories
Metrohm USA

Micromeritics
Instrument Corp
Neutronics, Gas
Analysis Solutions
PDR-Chemical LLC
PolyScience
Quantum Analytics
Restek Corp
Retsch
Sonics & Materials,
Vibra-Cell
Teledyne Tekmar
Testing Machines
Zinsser North America

SAMPLING DEVICES, AUTOMATED

AC Compacting LLC
Agilent Technologies
AGR Intl
BASi
Blue Lion Biotech
Distek
Flownamics
Gemu Valves
GoIndustry DoveBid
Hanson Research Corp
Kirby Lester LLC
Metrohm USA
Neutronics, Gas
Analysis Solutions
Quantum Analytics

SAMPLING DEVICES, BULK POWDER

Advantest America
Glen Mills
GoIndustry DoveBid
Hanson Research Corp
Isolation Systems

SCREEN GASKETS

Bergen Industrial
Supply Co
Cole-Parmer
GoIndustry DoveBid
Kemutech
Russell Finex

SENSOR PROTECTION VESSELS (THERMOWELLS)

Palmer Wahl
Temperature Products
Pyromation

SEQUENCERS, PROTEIN

Blue Lion Biotech
GoIndustry DoveBid
Spectrum Chemical
Mfg Corp

SHAKERS, INCUBATING

Appropriate Technical
Resources
BioPro Intl
BioSpec Products
Blue Lion Biotech
Cole-Parmer
Eppendorf
Eppendorf
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
PRO Scientific
Rice Lake Weighing
Systems
Spectrum Chemical
Mfg Corp
Union Scientific Corp
Werner Mathis USA,
North America
Woodley
Equipment Co Ltd

SHAKERS, SIEVE

Cleveland Vibrator/HK
Technologies
Cole-Parmer
Eriez
General Lab & Cleanroom
Supply, dba General
Lab Supply

Glen Mills
GoIndustry DoveBid
Great Western Mfg Co
Kemutech
MM Industries,
Vorti-Siv Div
Natoli Engineering Co
Retsch
Saint-Gobain
Performance Plastics
Spectrum Chemical
Mfg Corp
SWECO
WS Tyler

SHAKERS, WATER BATH

Blue Lion Biotech
Cole-Parmer
Eppendorf
Eppendorf
General Lab & Cleanroom
Supply, dba General
Lab Supply
Globe Scientific
GoIndustry DoveBid
Julabo USA
PolyScience
Spectrum Chemical
Mfg Corp
Woodley
Equipment Co Ltd

SIEVES, LABORATORY

Cleveland Vibrator/HK
Technologies
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
Glen Mills
GoIndustry DoveBid
Great Western Mfg Co
Hosokawa Micron
Powder Systems
Kemutech
Mettler Toledo, Lab
MM Industries,
Vorti-Siv Div
Retsch
Russell Finex
Spectrum Chemical
Mfg Corp
SWECO
WS Tyler

SOLIDS ANALYZERS

CEM Corp
GoIndustry DoveBid
Johnson Innovations
LT Industries
Metrohm USA

SOLVENT RECOVERY SYSTEMS, EXTRACTION

GEA Process
Engineering, GEA
Pharma Systems
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
NexGen Enviro Systems
Robatel
Spectrum Chemical
Mfg Corp

SOXHLET EXTRACTION APPARATUS

General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Spectrum Chemical
Mfg Corp

SPECIFIC GRAVITY BALANCES

Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Spectrum Chemical
Mfg Corp

SPECTROFLUOROMETERS

Blue Lion Biotech
DJS Enterprises
Eppendorf
GolIndustry DoveBid
HORIBA Scientific
Perkin Elmer Corp,
Environmental Health

SPECTROMETERS, AUGER

GolIndustry DoveBid

SPECTROMETERS, EMISSION

Blue Lion Biotech
GolIndustry DoveBid
HORIBA Scientific
Shimadzu Scientific Instruments

SPECTROMETERS, MASS

Agilent Technologies
Blue Lion Biotech
Bruker, Daltonics
Cole-Parmer
GolIndustry DoveBid
Hiden Analytical
LabX (Auctions)
Leak Detection Assocs
MKs Instruments
Perkin Elmer Corp,
Environmental Health
Quantum Analytics
Shimadzu Scientific Instruments
Waters Corp, Waters Div

SPECTROMETERS, NMR

ABB Analytical
Measurement
Agilent Technologies
Blue Lion Biotech
Bruker, Daltonics
Cole-Parmer
GolIndustry DoveBid

SPECTROMETERS, X-RAY

Agilent Technologies
Blue Lion Biotech
Bruker, Daltonics
EDAX, Materials
Analysis Div
GolIndustry DoveBid
HORIBA Scientific
OCS Checkweighers
Rigaku Americas Corp
Shimadzu Scientific Instruments
Thermo Scientific Niton Analyzers

SPECTROPHOTOMETER ACCESSORIES

ABB Analytical
Measurement
Advantest America
Blue Lion Biotech
Cole-Parmer
Eppendorf
Globe Scientific
GolIndustry DoveBid
HORIBA Instruments, Scientific
Metrohm USA
MicroSolv
Technology Corp
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp

SPECTROPHOTOMETER CELLS

Blue Lion Biotech
Cole-Parmer

Eppendorf
Globe Scientific
GolIndustry DoveBid
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp

SPECTROPHOTOMETERS, AA

Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments

SPECTROPHOTOMETERS, CIRCULAR DICHROISM

ABB Analytical
Measurement
GolIndustry DoveBid

SPECTROPHOTOMETERS, COLD VAPOR

GolIndustry DoveBid

SPECTROPHOTOMETERS, COLOR

Cole-Parmer
Eppendorf
GolIndustry DoveBid
HunterLab
Lovibond Tintometer
Perkin Elmer Corp,
Environmental Health

SPECTROPHOTOMETERS, DIODE-ARRAY

Blue Lion Biotech
Distek
GolIndustry DoveBid
Metrohm USA

SPECTROPHOTOMETERS, FLAME

GolIndustry DoveBid
HORIBA Scientific

SPECTROPHOTOMETERS, FLUORESCENCE

Blue Lion Biotech
Eppendorf
GolIndustry DoveBid
HORIBA Instruments, Scientific
HORIBA Scientific
Natoli Engineering Co
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments

SPECTROPHOTOMETERS, IR

ABB Analytical
Measurement
Agilent Technologies
Blue Lion Biotech
Cole-Parmer
Eppendorf
GolIndustry DoveBid
HORIBA Scientific
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments
Thermo Fisher Scientific, Portable Optical Analyzers

SPECTROPHOTOMETERS, NEAR-IR

ABB Analytical
Measurement
Blue Lion Biotech

BUCHI Corp
BÜCHI Labortechnik AG
GolIndustry DoveBid
HORIBA Scientific
LT Industries
Metrohm USA
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments
Thermo Fisher Scientific, Portable Optical Analyzers

SPECTROPHOTOMETERS, PHOSPHORESCENCE

Blue Lion Biotech
GolIndustry DoveBid
HORIBA Scientific

SPECTROPHOTOMETERS, RAMAN

ABB Analytical
Measurement
Bruker, Daltonics
Gateway Analytical
GolIndustry DoveBid
HORIBA Instruments, Scientific
HORIBA Scientific
Thermo Fisher Scientific, Portable Optical Analyzers

SPECTROPHOTOMETERS, REFLECTANCE

Advantest America
GolIndustry DoveBid
HORIBA Scientific
HunterLab
LT Industries
Metrohm USA
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments

SPECTROPHOTOMETERS, UV

Agilent Technologies
Aquionics
Blue Lion Biotech
Cole-Parmer
Distek
GolIndustry DoveBid
HORIBA Scientific
LabX (Auctions)
Perkin Elmer Corp,
Environmental Health
Pion
Quantum Analytics
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp

SPECTROPHOTOMETERS, VISIBLE

Artel
Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
HORIBA Scientific
HunterLab
LabX (Auctions)
LT Industries
Metrohm USA
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific Instruments
Spectrum Chemical Mfg Corp

SPECTROPOLARIMETERS

GolIndustry DoveBid
HORIBA Scientific

STABILITY TEST CHAMBERS

Atlas Material Testing Technology LLC
Bahnsen Environmental Specialties, An EMCOR Co
BioCold Environmental
CARON Products & Services
Darwin Chambers Co
EGC (Environmental Growth Chambers)
ESPEC North America
ETC, Sterilization Systems
GolIndustry DoveBid
Isolation Systems
Powers Scientific

STANDARDS, PARTICLE SIZE AND COUNTER

Bangs Labs
Blue Thunder Technologies
DJS Enterprises
EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
GolIndustry DoveBid
Particle Measuring Systems
Particle Sizing Systems

STEAM GENERATORS

American Plastics Technologies - Rao
Design Intl
ARS Enterprises, ARS/Beverly Pacific
Sterilizers
BioPro Intl
Cole-Parmer
ETC, Sterilization Systems
GolIndustry DoveBid
Isolation Systems
Paul Mueller Co
Primus Sterilizer Co LLC
Sussman Electric Boilers
Telstar North America

STEAM QUALITY TESTING EQUIPMENT

Carltext

STERILIZERS

American Plastics Technologies - Rao
Design Intl
ARS Enterprises, ARS/Beverly Pacific
Sterilizers
BioPro Intl
BIOQUELL, Life Sciences
Blue Lion Biotech
Carltext
Eppendorf
ETC, Sterilization Systems
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Harvard Apparatus
Regenerative Medicine
Inotech Bioscience LLC
Isolation Systems
Primus Sterilizer Co LLC
Process Tek
Spectrum Chemical Mfg Corp
Telstar North America
The Grieve Corp
Tuttnauer USA Co Ltd, Lab & Scientific Div
Victor Intl Mktg

STERILIZERS, MICROWAVE

American Plastics Technologies - Rao
Design Intl
GolIndustry DoveBid
Process Tek

STERILIZERS, OZONE GENERATORS

American Plastics Technologies - Rao
Design Intl
GolIndustry DoveBid
Process Tek

STERILIZERS, UV

American Plastics Technologies - Rao
Design Intl
Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
Hutchins & Hutchins
Isolation Systems
Process Tek
Xenon Corp

STERILIZERS, WATER PURIFICATION

American Plastics Technologies - Rao
Design Intl
Bosch Packaging Technology, Pharma
Cole-Parmer
ETC, Sterilization Systems
GolIndustry DoveBid
Pall Life Sciences, Biopharmaceuticals
Process Tek
Victor Intl Mktg

STILLS, WATER

American Plastics Technologies - Rao
Design Intl
Bosch Packaging Technology, Pharma
Cole-Parmer
GolIndustry DoveBid
Paul Mueller Co
Spectrum Chemical Mfg Corp

STIRRERS

Admix
AIM Blending Technologies
BioPro Intl
BioSpec Products
Blue Thunder Technologies
Cole-Parmer

CW Brabender Instruments

De Dietrich Process Systems
General Lab & Cleanroom Supply, dba General Lab Supply
Glen Mills
Globe Scientific
GolIndustry DoveBid
Jaygo
Kinematica
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand, SPX Flow Technology
Metrohm USA
MicroSolv
Technology Corp
PJ Cobert Assocs
Qosina
Restek Corp
Spectrum Chemical Mfg Corp
Procept nv
Sharpe Mixers
Spectrum Chemical Mfg Corp
Torrey Pines Scientific
Union Scientific Corp
Woodley Equipment Co Ltd

STOPPER STERILIZING EQUIPMENT

Bosch Packaging Technology, Pharma
ETC, Sterilization Systems

GolIndustry DoveBid
Process Tek
Victor Intl Mktg

SUGAR ANALYZERS

GolIndustry DoveBid
LT Industries

SURFACE AREA ANALYZERS

ATS RheoSystems, Cannon Instrument Co
GolIndustry DoveBid
Hiden Analytical
HORIBA Instruments, Scientific
Micromeritics
Instrument Corp
Surface Measurement Systems
TRICOR Systems

SURFACE CONTAMINATION MEASURING EQUIPMENT

Lighthouse Worldwide Solutions
LT Industries
Micro Measurement Labs
Particle Measuring Systems

SURFACE TENSION APPARATUS

ChemSultants Intl
GolIndustry DoveBid
Hosokawa Micron Powder Systems

SUSTAINED RELEASE APPARATUS

GolIndustry DoveBid

SYNTHESIZERS, DNA

Blue Lion Biotech
GolIndustry DoveBid

SYNTHESIZERS, PEPTIDE

Blue Lion Biotech
CEM Corp
GolIndustry DoveBid

SYRINGES

Agilent Technologies
Air-Tite Products, Syringe & Needle Products Div
Blue Thunder Technologies
Bosch Inspection Technology
Cole-Parmer
General Lab & Cleanroom Supply, dba General Lab Supply
GolIndustry DoveBid
Mettler Toledo, Lab MicroLiter Analytical Supplies
MicroSolv
Technology Corp
PJ Cobert Assocs
Qosina
Restek Corp
Spectrum Chemical Mfg Corp
Valco Instruments Co (VICI)
Zinsser North America

TABLET TESTING SYSTEMS

ABB Analytical
Measurement
AC Compacting LLC
Advantest America
Atlantic Scale Co
Bosch Inspection Technology
BÜCHI Labortechnik AG
Copley Scientific Ltd, SIs Dept

For vendor contact information, see Company Directory section.

Distek
DJS Enterprises
Equipment
Technology Co
**Fette Compacting
America**
GoIndustry DoveBid
Hanson Research Corp
I Holland Ltd
Johanson Innovations
Key Intl
KIKUSUI USA
Kirby Lester LLC
LT Industries
Metrohm USA
Natoli Engineering Co
Pharmatron
Texture
Technologies Corp

**TEMPERATURE
CIRCULATORS,
CONSTANT**
Buchiglas-USA Corp
Budzar Industries
**CARON Products &
Services**
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Julabo USA
Mokon
PolyScience
Thermalcal
TUC LLC

**TEMPERATURE
CONTROLLERS,
HEATING
EQUIPMENT**
ABB Analytical
Measurement
BioCold Environmental
Buchiglas-USA Corp
Budzar Industries
Chemical Transfer
Partnership Corp,
(CTP Corp)
Cole-Parmer
Control Co
Custom Heat LLC
Durex Industries
Dwyer Instruments
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Isolation Systems
Julabo USA
Masy Systems
Mokon
MultiTherm LLC
Omega Engineering
Paratherm - Heat
TransferFluids
PolyScience
Process Technology
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
**Spectrum Chemical
Mfg Corp**
Terra Universal
Thermalcal
TUC LLC
Valco Instruments Co
(VIC)
Yokogawa Corp of
America

**TEMPERATURE
CONTROLLERS,
LIQUID (LOW
TEMPERATURES)**
Buchiglas-USA Corp
Budzar Industries
Chemical Transfer
Partnership Corp,
(CTP Corp)
Cole-Parmer
CSR Pharma Services
Durex Industries
Dwyer Instruments
Eppendorf
GoIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Julabo USA
Mokon
Omega Engineering
Paratherm - Heat
TransferFluids
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
Thermalcal
TUC LLC
Yokogawa Corp of
America

**TEMPERATURE
INSTRUMENTATION**
ACR Systems
Ashcroft
Atlantic Scale Co
Beamex
BioCold Environmental
Brookfield
Engineering Labs
Burkert Fluid Control
Systems
Burns Engineering
Carltext
Cole-Parmer
Control Co
CSR Pharma Services
Custom Heat LLC
DeltaTRAK
Dickson
Durex Industries
Dwyer Instruments
Ellab
GF Piping Systems
GoIndustry DoveBid
Julabo USA
Krohne
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Pyromation
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
Testo
Thermalcal
TMI USA
Two Dimensional
Instruments LLC
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**TEMPERATURE
RECORDERS**
ACR Systems
BioCold Environmental
Carltext
Cold Chain
Technologies
Cole-Parmer
CSR Pharma Services
Custom Heat LLC
DeltaTRAK
Dickson
Dwyer Instruments
Ellab
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Hampshire
Controls Corp
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
TMI USA
Two Dimensional
Instruments LLC
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**TEMPERATURE
PROBES**
ACR Systems
Atlantic Scale Co
BioCold Environmental
Burns Engineering
Carltext
Cole-Parmer
Conax Technologies
CSR Pharma Services
Custom Heat LLC
DeltaTRAK
Dickson
Durex Industries
Dwyer Instruments
Ellab
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Hampshire Controls Corp
Hanson Research Corp
Harvard Apparatus
Regenerative
Medicine
Julabo USA
Lighthouse Worldwide
Solutions
Marathon Products
Masy Systems
Mettler Toledo, Lab
Natoli Engineering Co
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Pyromation
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
Thermalcal
TMI USA
Vaisala

**TEMPERATURE
RECORDERS**
ACR Systems
BioCold Environmental
Carltext
Cold Chain
Technologies
Cole-Parmer
CSR Pharma Services
Custom Heat LLC
DeltaTRAK
Dickson
Dwyer Instruments
Ellab
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Hampshire
Controls Corp
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Process Tek
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
TMI USA
Two Dimensional
Instruments LLC
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**TEMPERATURE
SENSORS (RTD,
THERMOCOUPLE)**
BioCold Environmental
Durex Industries
Dwyer Instruments
Natoli Engineering Co
Palmer Wahl
Temperature Products
Parker domnick hunter,
Process Filtration
Pyromation

TENSIOMETERS
Chemsultants Intl
Cole-Parmer
GoIndustry DoveBid
Texture
Technologies Corp

**TESTING DEVICES,
CONTAINER LEAKS**
AGR Intl
American Plastics
Technologies - Rao
Design Intl
Bosch Inspection
Technology
Electro-Technic
Products
GoIndustry DoveBid
Leak Detection Assocs
Nikka DensoK USA
Pfeiffer Vacuum
Process Tek
Sensaphone
Sepha Ltd

**TESTING DEVICES,
HUMIDITY**
Atlantic Scale Co
Atlas Material Testing
Technology LLC
Cole-Parmer
Decagon Devices
DeltaTRAK
E Instruments Intl
Ellab
ESPEC North America
GoIndustry DoveBid
Masy Systems
Mesa Labs
Omega Engineering
Q-Lab Corp,
Headquarters &
Instrument Div
Sensaphone
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
TMI USA
Vaisala
Wessex Power
Technology,
Pharmaceutical
Instrumentation

**TESTING DEVICES,
INHALERS**
Copley Scientific Ltd,
Sls Dept
GoIndustry DoveBid
Texture
Technologies Corp

**TESTING DEVICES,
PRESSURE**
AGR Intl
American Plastics
Technologies - Rao
Design Intl
Ashcroft
Atlantic Scale Co
Beamex
Cole-Parmer
E Instruments Intl
Ellab
GoIndustry DoveBid
Masy Systems
Mesa Labs
MKS Instruments
Omega Engineering

Palmer Wahl
Temperature Products
Terra Universal
Testo
TMI USA
Vaisala
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd

**TESTING DEVICES,
STERILITY**
Carltext
Ellab
GoIndustry DoveBid
Masy Systems
Process Tek
Wessex Power
Technology,
Pharmaceutical
Instrumentation

**TESTING DEVICES,
SUPPOSITORIES**
Copley Scientific Ltd,
Sls Dept
CroPharm
GoIndustry DoveBid
Texture
Technologies Corp

**TESTING DEVICES,
TABLET HARDNESS**
Copley Scientific Ltd,
Sls Dept
CroPharm
Distek
Equipment
Technology Co
**Fette Compacting
America**
GoIndustry DoveBid
I Holland Ltd
Johanson Innovations
Key Intl
LT Industries
Natoli Engineering Co
Newage Testing
Instruments,
A Subsidiary of AMETEK
Pharmatron
Shimadzu Scientific
Instruments
Texture
Technologies Corp

**TESTING DEVICES,
TEMPERATURE**
Ashcroft
Atlantic Scale Co
Atlas Material Testing
Technology LLC
Beamex
Cold Chain
Technologies
Cole-Parmer
DeltaTRAK
E Instruments Intl
Ellab
ESPEC North America
GoIndustry DoveBid
Julabo USA
Masy Systems
Mesa Labs
Palmer Wahl
Temperature Products
Process Tek
Q-Lab Corp,
Headquarters &
Instrument Div
Sensaphone
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
Thermalcal
TMI USA
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd

**TESTING DEVICES,
TEMPERATURE**
Ashcroft
Atlantic Scale Co
Atlas Material Testing
Technology LLC
Beamex
Cold Chain
Technologies
Cole-Parmer
DeltaTRAK
E Instruments Intl
Ellab
ESPEC North America
GoIndustry DoveBid
Julabo USA
Masy Systems
Mesa Labs
Palmer Wahl
Temperature Products
Process Tek
Q-Lab Corp,
Headquarters &
Instrument Div
Sensaphone
**Spectrum Chemical
Mfg Corp**
Terra Universal
Testo
Thermalcal
TMI USA
Wessex Power
Technology,
Pharmaceutical
Instrumentation
Woodley
Equipment Co Ltd

**TESTING DEVICES,
WATER**
CHEMetrics
Cole-Parmer
Decagon Devices
GoIndustry DoveBid
Mettler Toledo,
Thornton
Particle Measuring
Systems
Sensaphone
Shimadzu Scientific
Instruments
**Spectrum Chemical
Mfg Corp**
Woodley
Equipment Co Ltd

**THERMAL
ANALYTICAL
INSTRUMENTS**
Agilent Technologies
Atlas Material Testing
Technology LLC
ATS RheoSystems,
Cannon Instrument Co
Cole-Parmer
Decagon Devices
DeltaTRAK
Dwyer Instruments
E Instruments Intl
Ellab
GoIndustry DoveBid
Hidden Analytical
Mettler Toledo, Lab
Newport Electronics
**Perkin Elmer Corp,
Environmental
Health**
Quantum Analytics
Shimadzu Scientific
Instruments
Testo
Waters Corp, Waters Div

**THERMOGRAVI-
METRIC ANALYSIS
EQUIPMENT**
GoIndustry DoveBid
Hidden Analytical
Mettler Toledo, Lab
**Perkin Elmer Corp,
Environmental
Health**
Shimadzu Scientific
Instruments

**THERMOMETERS,
ANIMAL**
Atlantic Scale Co
DeltaTRAK
Ellab
GoIndustry DoveBid
Woodley
Equipment Co Ltd

**THERMOMETERS,
BULB-TYPE**
Ashcroft
Atlantic Scale Co
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
GoIndustry DoveBid
Palmer Wahl
Temperature Products
**Spectrum Chemical
Mfg Corp**

**THERMOMETERS,
DIAL READING**
Ashcroft
Atlantic Scale Co
Carltext
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
GoIndustry DoveBid

Omega Engineering
Palmer Wahl
Temperature Products
**Spectrum Chemical
Mfg Corp**
Swagelok Co
Terra Universal

**THERMOMETERS,
DIFFERENTIAL**

Atlantic Scale Co
Cole-Parmer
E Instruments Intl
Ellab
GMP Systems
GolIndustry DoveBid
Omega Engineering
Palmer Wahl
Temperature Products
Terra Universal

**THERMOMETERS,
DIGITAL READOUT**

Atlantic Scale Co
Cole-Parmer
Control Co
DeltaTRAK
Dickson
E Instruments Intl
Ellab
General Lab & Cleanroom
Supply, dba General
Lab Supply
GMP Systems
GolIndustry DoveBid
Hampshire

Controls Corp
Marathon Products
Masy Systems

Natoli Engineering Co

Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Process Technology
Rice Lake Weighing
Systems
Sensaphone
**Spectrum Chemical
Mfg Corp**
Status Instruments
Terra Universal
Testo
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**THERMOMETERS,
ELECTRICAL,
REMOTE READING**

Atlantic Scale Co
Burns Engineering
Cole-Parmer
Control Co
DeltaTRAK
Dickson
Ellab
GMP Systems
GolIndustry DoveBid
Hampshire
Controls Corp
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Sensaphone
Status Instruments
Terra Universal
Testo
Woodley
Equipment Co Ltd

**THERMOMETERS,
ELECTRONIC**

Atlantic Scale Co
Burns Engineering
Carltext
Cole-Parmer
Control Co
Custom Heat LLC
DeltaTRAK
Dickson

E Instruments Intl
Ellab
GolIndustry DoveBid
Hampshire
Controls Corp
Harvard Apparatus
Regenerative
Medicine
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products

**Spectrum Chemical
Mfg Corp**

Status Instruments
Terra Universal
Two Dimensional
Instruments LLC
Woodley
Equipment Co Ltd
Yokogawa Corp of
America

**THERMOMETERS,
RECORDING**

Atlantic Scale Co
Carltext
Cole-Parmer
Control Co
DeltaTRAK
Dickson
E Instruments Intl
Ellab
GolIndustry DoveBid
Hampshire
Controls Corp
Marathon Products
Masy Systems
Newport Electronics
Omega Engineering
Palmer Wahl
Temperature Products
Sensaphone

**Spectrum Chemical
Mfg Corp**

Testo
Two Dimensional
Instruments LLC
Woodley
Equipment Co Ltd

**THERMOMETERS,
SURFACE**

Burns Engineering
Cole-Parmer
Control Co
DeltaTRAK
Dickson
E Instruments Intl
Ellab
GolIndustry DoveBid
Marathon Products
Natoli Engineering Co
Omega Engineering
Palmer Wahl
Temperature Products
Testo
Woodley
Equipment Co Ltd

THERMOWELLS

Durex Industries
Palmer Wahl
Temperature Products

**TIME-TEMPERATURE
MONITORS**

ACR Systems
Carltext
Control Co
DeltaTRAK
Dickson
Durex Industries
E Instruments Intl
Ellab
GolIndustry DoveBid
Hampshire
Controls Corp
Marathon Products
Masy Systems
Newport Electronics
Process Tek

**Spectrum Chemical
Mfg Corp**

Testo
Two Dimensional
Instruments LLC
Wessex Power
Technology,
Pharmaceutical
Instrumentation

**TISSUE CULTURE
APPARATUS AND
SUPPLIES**

BioPro Intl
Cole-Parmer
EGC (Environmental
Growth Chambers)
Electron Microscopy
Sciences
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
Eppendorf
General Lab & Cleanroom
Supply, dba General
Lab Supply
Globe Scientific
GolIndustry DoveBid
Harvard Apparatus
Regenerative
Medicine
Saint-Gobain
Performance Plastics

**Spectrum Chemical
Mfg Corp**

**TITRATION
APPARATUS**

Blue Lion Biotech
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GolIndustry DoveBid
JM Science
Malvern Instruments
Metrohm USA
Mettler Toledo, Lab
Pion
**Spectrum Chemical
Mfg Corp**

**TITRATORS,
AMPEROMETRIC**

Blue Lion Biotech
Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
GolIndustry DoveBid
JM Science
Metrohm USA
Mettler Toledo, Lab
**Spectrum Chemical
Mfg Corp**

**TITRATORS,
COLORIMETRIC**

Blue Lion Biotech
Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
BUCHI Corp
GolIndustry DoveBid
JM Science
Lovibond Tintometer
Metrohm USA
Mettler Toledo, Lab

**TITRATORS,
COULOMETRIC**

Cole-Parmer
GolIndustry DoveBid
JM Science
Lovibond Tintometer
Metrohm USA
Mettler Toledo, Lab
**Spectrum Chemical
Mfg Corp**

**TITRATORS, KARL
FISCHER**

Blue Lion Biotech
Cole-Parmer
GolIndustry DoveBid
JM Science
Metrohm USA
Mettler Toledo, Lab
**Spectrum Chemical
Mfg Corp**

**TITRATORS,
PHOTOMETRIC**

Blue Lion Biotech
BUCHI Corp
GolIndustry DoveBid
JM Science
Metrohm USA
Mettler Toledo, Lab
**Spectrum Chemical
Mfg Corp**

**TITRATORS,
POTENTIOMETRIC**

Blue Lion Biotech
GolIndustry DoveBid
JM Science
Metrohm USA
Mettler Toledo, Lab
Pion
**Spectrum Chemical
Mfg Corp**

TOC ANALYZERS

Blue Lion Biotech
Cole-Parmer
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
GE Analytical
Instruments
GolIndustry DoveBid
Lighthouse Worldwide
Solutions
Lovibond Tintometer
Mettler Toledo,
Thornton
Quantum Analytics
Shimadzu Scientific
Instruments
Teledyne Tekmar

TORQUE TESTER

Atlantic Scale Co
Blue Thunder
Technologies
**CW Brabender
Instruments**
GolIndustry DoveBid
I Holland Ltd
Kaps-All Packaging
Systems
Mesa Labs
Natoli Engineering Co
Pharmatron

TRACE ANALYZERS

Blue Lion Biotech
GolIndustry DoveBid
Neutronics, Gas
Analysis Solutions
Valco Instruments Co
(VIC)

TRANSILLUMINATORS

Blue Lion Biotech
General Lab & Cleanroom
Supply, dba General
Lab Supply
GolIndustry DoveBid
Spectronics Corp
**Spectrum Chemical
Mfg Corp**

TUBING, CAPILLARY

Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
Globe Scientific
GolIndustry DoveBid
MicroSolv
Technology Corp
Parker Hannifin - TexLoc

PJ Cobert Assocs
Polymicro Technologies,
Sub Molex
**Spectrum Chemical
Mfg Corp**
Valco Instruments Co
(VIC)

TURBIDIMETERS

Artel
BioPro Intl
Cole-Parmer
GolIndustry DoveBid
Lovibond Tintometer
Omega Engineering
optek-Danulat
**Spectrum Chemical
Mfg Corp**

ULTRACENTRIFUGES

Blue Lion Biotech
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GolIndustry DoveBid

**ULTRAFILTRATION
EQUIPMENT**

Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
Cole-Parmer
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GolIndustry DoveBid
Metrohm USA
Novasep
Pall Corp, Life Sciences
Group
Pall Life Sciences,
Biopharmaceuticals
Xylem, WEDECO - A
Xylem Brand

**ULTRASONIC
CLEANING
EQUIPMENT**

Cole-Parmer
Electron Microscopy
Sciences
General Lab & Cleanroom
Supply, dba General
Lab Supply
Glen Mills
GolIndustry DoveBid
I Holland Ltd
Liberty Industries
Natoli Engineering Co
Retsch
Sani-Matic
Sonics & Materials,
Vibra-Cell
**Spectrum Chemical
Mfg Corp**
Terra Universal

UV LAMPS

Agilent Technologies
Aquionics
Atlas Material Testing
Technology LLC
Blue Lion Biotech
Cole-Parmer
Ecolab
Electron Microscopy
Sciences
General Lab & Cleanroom
Supply, dba General
Lab Supply
GolIndustry DoveBid
Isolation Systems
Liberty Industries
NuAire
**Perkin Elmer Corp,
Environmental
Health**
PJ Cobert Assocs
Process Tek
Q-Lab Corp,
Headquarters &
Instrument Div

Spectronics Corp
**Spectrum Chemical
Mfg Corp**
Terra Universal
Xenon Corp
Xylem, WEDECO - A
Xylem Brand

**UV PULSED
STERILIZATION**

GolIndustry DoveBid
Xenon Corp

**VACUUM
EQUIPMENT**

BÜCHI Labortechnik AG
Cole-Parmer
De Dietrich Process
Systems
Elmo Rietschle
Products, Industrial
Products Group
EXAIR Corp
GolIndustry DoveBid
Hidden Analytical
Isolation Systems
Jaygo
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Mass-Vac
MKS Instruments
Myers Engineering
Nash, A Gardner Denver
Product
Nilfisk-Advance,
Industrial Vacuum Div
Pfeiffer Vacuum
Piab
Procept nv
Telstar North America
Terra Universal
The Spencer Turbine Co
Tiger-Vac
Tuthill Vacuum & Blower
Systems
Werner Mathis USA,
North America
Wintek Corp

**VACUUM PRESSURE
SENSORS**

AGR Intl
Cole-Parmer
GolIndustry DoveBid
Isolation Systems
Masy Systems
MKS Instruments
Myers Vacuum Repair
Services
Pfeiffer Vacuum

**VAPOR SORPTION
ANALYZER**

Decagon Devices
Mettler Toledo, Lab

**VIAL INSPECTION
EQUIPMENT**

Bosch Inspection
Technology
Electro-Technic
Products
GolIndustry DoveBid
Kirby Lester LLC
Micro Measurement Labs
Optel Vision
PTI Packaging
Technologies &
Inspection LLC
Teledyne DALSA
Victor Intl Mktg
WILCO AG

**VISCOMETERS,
AUTOMATIC**

Anton PAAR USA
ATS RheoSystems,
Cannon Instrument Co
Automation Products,
Dynatrol @ Div
Brookfield
Engineering Labs
Cole-Parmer

GoIndustry DoveBid
Hydramotion Ltd
Malvern Instruments
Texture
Technologies Corp

VISCOMETERS, FALLING BALL

Brookfield
Engineering Labs
Cole-Parmer
GoIndustry DoveBid
Thermo Scientific,
Chemical Analysis
Div-Material
Characterization
Business

VISCOMETERS, GENERAL PURPOSE

ATS RheoSystems,
Cannon Instrument Co
Automation Products,
Dynatrol ® Div
Brookfield
Engineering Labs
Cole-Parmer

CW Brabender Instruments

General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Hydramotion Ltd
**Spectrum Chemical
Mfg Corp**
Stony Brook
Scientific Ltd
Testing Machines
Texture
Technologies Corp
Thermo Scientific,
Chemical Analysis
Div-Material
Characterization
Business

VISCOMETERS, ZAHN-CUP

Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
**Spectrum Chemical
Mfg Corp**

VORTEXERS

BioSpec Products
Blue Lion Biotech
Eppendorf

General Lab & Cleanroom
Supply, dba General
Lab Supply
Globe Scientific
GoIndustry DoveBid
PRO Scientific
Rice Lake Weighing
Systems
**Spectrum Chemical
Mfg Corp**
Union Scientific Corp
Woodley
Equipment Co Ltd

WASHERS, GLASSWARE

ARS Enterprises,
ARS/Beverly Pacific
Sterilizers
BioPro Intl
Bosch Packaging
Technology, Pharma
Cole-Parmer
General Lab & Cleanroom
Supply, dba General
Lab Supply
Girton Mfg Co,
Pharmaceutical Div
GoIndustry DoveBid
Labconco Corp
Miele, Professional
Products Div

Natoli Engineering Co

NexGen Enviro Systems
Sani-Matic
**Spectrum Chemical
Mfg Corp**

WATER ACTIVITY INSTRUMENTATION

Decagon Devices

WATER ANALYSIS SYSTEMS

Agilent Technologies
Cole-Parmer
GoIndustry DoveBid
Labconco Corp
Lovibond Tintometer
Mar Cor Purification
**Spectrum Chemical
Mfg Corp**

WATER ANALYZERS

Aspex Corp, An FEI Co,
Analytical Services
Bran+Luebbe, An SPX
Brand, SPX Flow
Technology
CHEMetrics
Cole-Parmer
Control Co

For vendor contact information, see Company Directory section.

GE Analytical
Instruments
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Lovibond Tintometer
Mettler Toledo,
Thornton
Shimadzu Scientific
Instruments
**Spectrum Chemical
Mfg Corp**
Surface Measurement
Systems
Teledyne Tekmar

WATER BATHS

Blue Lion Biotech
Brookfield
Engineering Labs
BUCHI Corp
Buchiglas-USA Corp
**CARON Products &
Services**
Chemical Transfer
Partnership Corp,
(CTP Corp)
Cole-Parmer
Eppendorf
General Lab & Cleanroom
Supply, dba General
Lab Supply
Globe Scientific
GoIndustry DoveBid
Hanson Research Corp
Julabo USA
Mettler Toledo, Lab
Natoli Engineering Co
Omega Engineering
PolyScience
**Spectrum Chemical
Mfg Corp**
Woodley
Equipment Co Ltd

WATER PURIFICATION, CARBON ADSORPTION

Ecolab
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
GMP Systems
GoIndustry DoveBid
Labconco Corp
Mar Cor Purification
Medro Systems
PACS Testing, Courses,
Conferences, PACS

WATER PURIFICATION, DEIONIZATION CARON Products & Services

Cole-Parmer
Ecolab
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
Fristam Pumps USA
GMP Systems
GoIndustry DoveBid
Labconco Corp
Mar Cor Purification
Medro Systems
Membrana
Puretech Process
Systems Ltd
Purolite
**Spectrum Chemical
Mfg Corp**

WATER PURIFICATION, DISTILLATION

Bosch Packaging
Technology, Pharma
**CARON Products &
Services**
Cole-Parmer
Ecolab
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
GoIndustry DoveBid
Labconco Corp
Mar Cor Purification
Puretech Process
Systems Ltd
Purolite
**Spectrum Chemical
Mfg Corp**

WATER PURIFICATION, OZONATION

Ecolab
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
Fristam Pumps USA
GMP Systems
GoIndustry DoveBid
Mar Cor Purification
Process Tek
Puretech Process
Systems Ltd
Purolite

WATER PURIFICATION, REVERSE-OSMOSIS

Cole-Parmer
Ecolab
EMD Millipore,
A Div of Merck KGaA
Darmstadt Germany
Fristam Pumps USA
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
GoIndustry DoveBid
Labconco Corp
Mar Cor Purification
Medro Systems
Miele, Professional
Products Div
Process Tek
Puretech Process
Systems Ltd
Purolite
**Spectrum Chemical
Mfg Corp**

WEIGHING AND SORTING SYSTEMS

AC Compacting LLC
Atlantic Scale Co
BioPro Intl
CI Electronics Ltd
CI Precision
Cole-Parmer
GoIndustry DoveBid
Loma Systems / Lock
Inspection Systems

MG America

OCS Checkweighers
Siemens Industry,
Automation & Drive
Technologies

Spectrum Chemical Mfg Corp

Woodley
Equipment Co Ltd

WEIGHING SYSTEMS, AUTOMATED

AC Compacting LLC
Atlantic Scale Co
CI Electronics Ltd
CI Precision
GoIndustry DoveBid
Lock Inspection
Systems
Loma Systems / Lock
Inspection Systems
Mettler Toledo, Lab
MG America
OCS Checkweighers

Optima Pharma, Optima
Machinery Corp
Siemens Industry,
Automation & Drive
Technologies
Woodley
Equipment Co Ltd

WIPERS

Angstrom Supply
Blue Thunder
Technologies
Cole-Parmer
Contec
General Lab & Cleanroom
Supply, dba General
Lab Supply
GoIndustry DoveBid
Liberty Industries
Lymtech Scientific
Perflex Corp
Qosina
**Spectrum Chemical
Mfg Corp**
STAXS Belgium
Terra Universal

X-RAY DIFFRACTION

Agilent Technologies
Blue Lion Biotech
EDAX, Materials
Analysis Div
GoIndustry DoveBid
.....
**International Centre
for Diffraction Data**
610-325-9814
fax 610-325-9823
marketing@icdd.com
www.icdd.com
See ad on page 113
.....
Shimadzu Scientific
Instruments

ZETA POTENTIAL ANALYZERS

Anton PAAR USA
GoIndustry DoveBid
Malvern Instruments
Particle Sizing Systems
Wyatt Technology ■

Pharmaceutical Technology

Pharmaceutical Technology

EUROPE

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Pharmaceutical Technology Europe's weekly electronic e-newsletter *PTE e-Alert* provides news, market developments, industry surveys and information on up and coming trade events.

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technologies

INFORMATION

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ACR Systems
Aegis Analytical Corp
Artel
Aspect Automation
Aspek Corp, An FEI Co,
Analytical Services
Atlantic Scale Co
Automated Control
Concepts
Beamex
BioCold Environmental
Blue Mountain Quality
Resources
Brendan Technologies
Bridge Assocs Intl
Cardinal Health Specialty
Services
CIMCON Software
comes compliance
services
Complete Inspection
Systems
Compliance Insight
Conatech Consulting
Group
CQS Innovation
CRB Consulting
Engineers
CSols
CustomVault
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
Dickson
EduQuest
Ellab

ETQ

516-293-0949
fax 516-293-0784
info@etq.com
www.etq.com

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Fette Compacting America

Flownamics
Gavin Pharmaceutical
Services
Global Vision
GMP Trends
Hampshire Controls Corp
InfinityQS Intl
JAF Consulting,
Validation & Regulatory
Services Consulting
JKS & Assocs
LabWare
Lighthouse Worldwide
Solutions
LT Industries
MasterControl
Masy Systems
Metrohm USA
Mettler Toledo, Lab
Mettler-Toledo Hi-Speed,
Product Inspection Div
MMS Holdings
OCS Checkweighers
Particle Measuring
Systems
Particle Sizing Systems
Perkin Elmer Corp,
Environmental Health
Pilgrim Software
Process Tek
ProcessPro Software
QUMAS
Rees Scientific
Regulatory Compliance
Assocs

Rockwell Automation
RoviSys,
Life-Sciences Div
Schiff & Co
Siemens Industry,
Automation & Drive
Technologies
Softtek
Sparta Systems
Systech Intl
Testo
Texture
Technologies Corp
Tharo Systems
The Center for
Professional
Innovation & Education
Validation Assocs
VTS Consultants
Waters Corp, Waters Div
Werum IT Solutions
America

ALARM MONITORING

ACR Systems
Automated Control
Concepts
Bridge Assocs Intl
Climet Instruments Co
CustomVault
Dickson
Ellab
ENV Services
Hampshire Controls Corp
InfinityQS Intl
Lighthouse Worldwide
Solutions
Masy Systems
Newport Electronics
Perigon Intl
Rees Scientific
Rockwell Automation
RoviSys,
Life-Sciences Div
Sensaphone
Siemens Industry,
Automation & Drive
Technologies
Siemens Infrastructure +
Cities, Building
Technologies Div
Uehling Instrument Co

APPLICATION INTEGRATION

Aegis Analytical Corp
Automated Control
Concepts
CIMCON Software
comes compliance
services
CRB Consulting
Engineers
CSols
JAF Consulting,
Validation & Regulatory
Services Consulting
Katzscan
MasterControl
PDR-Chemical LLC
Rockwell Automation
RoviSys,
Life-Sciences Div
Siemens Industry,
Automation & Drive
Technologies
Softtek
Waters Corp, Waters Div
WL Gore & Assocs, Gore
PharmBIO Products

APPLICATION SUPPORT

Automated Control
Concepts
CIMCON Software
comes compliance
services
CQS Innovation
CSols
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
Fette Compacting America
JAF Consulting,
Validation & Regulatory
Services Consulting
Lighthouse Worldwide
Solutions
Mettler Toledo, Lab
Rockwell Automation
RoviSys,
Life-Sciences Div
Siemens Industry,
Automation & Drive
Technologies
Softtek
The Ashvins Group
Tri-Tronics Co
Waters Corp, Waters Div
WL Gore & Assocs, Gore
PharmBIO Products

ASSET OPTIMIZATION

Automated Control
Concepts
Beamex
CIMCON Software
CRB Consulting
Engineers
CSols
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
Perkin Elmer Corp,
Environmental Health
Rockwell Automation
RoviSys,
Life-Sciences Div
Siemens Industry,
Automation & Drive
Technologies

AUTOMATIC ID/ BAR CODING

Atlantic Scale Co
CIMCON Software
Complete Inspection
Systems
CyberMetrics Corp,
Quality Mgmt Div and
Asset Mgmt Div
FSI Technologies
JAF Consulting,
Validation & Regulatory
Services Consulting
Katzscan
Label Mill
Markem-Imaje, Dover Div
Matthews Intl Corp,
Matthews Marking
Systems
Mettler Toledo, Lab
Perigon Intl
ProcessPro Software
Product Identification &
Processing Systems
RoviSys,
Life-Sciences Div
Tharo Systems
Werum IT Solutions
America

AUTOMATION SYSTEMS

A&B Process
Systems Corp
Aspect Automation
Atlantic Scale Co
Automated Control
Concepts
AZO
CIMCON Software
comes compliance
services
Complete Inspection
Systems
CQS Innovation
Fette Compacting America
FP Developments
FSI Technologies
GEA Process
Engineering, GEA
Pharma Systems
InfinityQS Intl
JAF Consulting,
Validation & Regulatory
Services Consulting
Keller Packaging
Engineering Group LLC
MasterControl
Mesa Labs
Mettler Toledo, Lab
Natoli Engineering Co
Parker domnick hunter,
Process Filtration
PDR-Chemical LLC
Perigon Intl
Pilgrim Software
ProcessPro Software
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RoviSys,
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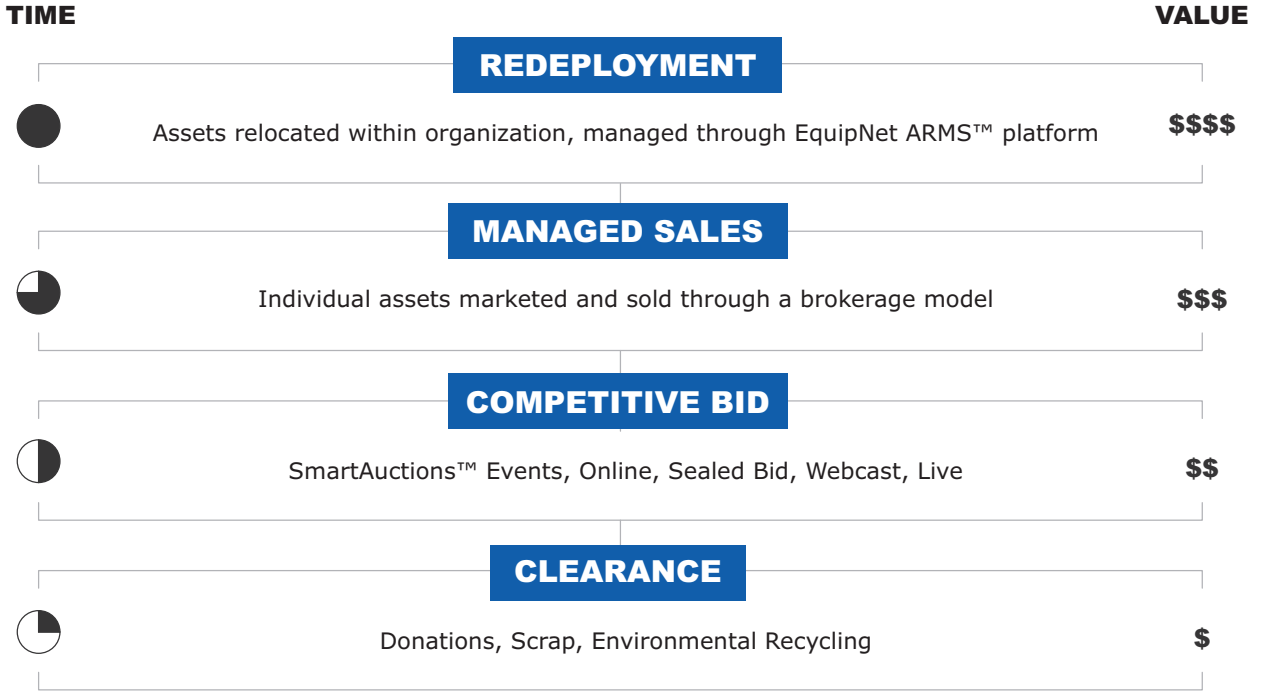
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Value Control Model



Depending on an individual company's needs, some or all of the tactics above may be utilized in an asset management programme. In every case, however, industry know-how, proven project management and market expertise are important.

A Practical Case

Below illustrates the program success of a leading, multi-national pharmaceutical company that utilizes ARMS and every channel within the Value Control Model.



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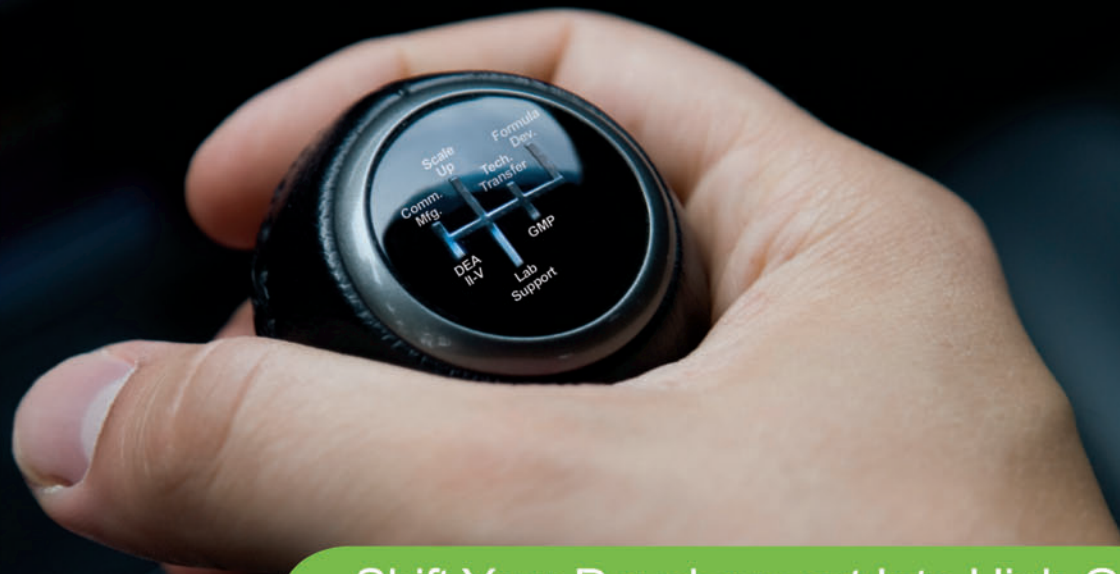
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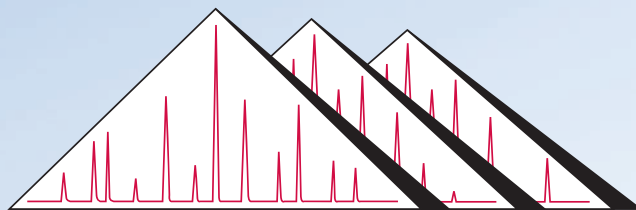
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United States Pharmacopeia

12601 Twinbrook Parkway
Rockville, MD
20852-1790, USA
Tel. 800 227 8772
www.usp.org

ASIA-PACIFIC

Australia

Australian Therapeutic Goods Administration

PO Box 100
Woden ACT 2606, Australia
Tel. +61 1800 020 653
Fax +61 02 6203 1605
www.tga.gov.au

China

Chinese Pharmacopoeia Commission: Beijing WEIBIAO Center for Drug Standard Research & Development

Building 11, FaHua NanLi
ChongWen District, Beijing
100061 P.R. China

Tel. +86 10 67156316
Fax +86 10 67167194
www.chp.org.cn

International Pharmaceutical Excipients Council of China

Maples International Center
No.32, Xizhimen North St.,
Room 1106, 11th Floor
Office Bldg. B
Haidian District, Beijing,
100082, PRC
Tel: +86 10 82212866 6008
Fax: +86 10 82212857
www.ipec-china.org

National Institutes of Food and Drug Control

2 Tiantan Xi Li
Beijing 100050
China
www.nicpbp.org.cn

State Food and Drug Administration

26 Xuanwumen Xidajie
Beijing, 100053
P.R. China
Fax: +86 010 68310909
eng.sfda.gov.cn

India

Central Drugs Standard Control Organization

Directorate General
of Health Services
Ministry of Health
and Family Welfare
FA Bhavan, ITO
Kotla Road
New Delhi 110002
India
Tel. +91 11 23236975
Fax. +91 11 23236973
www.cdsco.nic.in

Department of Health Research

Indian Council
of Medical Research
V. Ramalingaswami
Bhawan
Ansari Nagar
New Delhi - 110029
India
Tel. +91 11 23736086
www.dhr.gov.in

Japan**International
Pharmaceutical Excipients
Council of Japan**

(JPEC)
2F Kudan KA Bldg,
1-9-16 Kudan Kita,
Chiyodaku
Tokyo, 102-0073, Japan
Tel: +81 3 5275 1358
Fax: +81 3 5275 5418
www.jpec.gr.jp

**Ministry of Health,
Labour, and Welfare**

1-2-2 Kasumigaseki
Chiyoda-ku
Tokyo 100-8916
Japan
Tel. +81 03 5253 1111
www.mhlw.go.jp

**National Institute
of Health Sciences**

Kamiyoga 1-18-1,
Setagaya-ku
Tokyo 158-8501
Japan
Tel. +81 3 3700 1141
Fax +81 3 3707 6950
www.nihs.go.jp

**Pharmaceuticals and
Medical Devices Agency**

Shin-Kasumigaseki Bldg.
3-3-2 Kasumigaseki
Chiyoda-ku
Tokyo 100-0013
Japan
Tel. +81 3 3506 9456
Fax +81 3 3506 9572
www.pmda.go.jp/
english

Malaysia**Institute for
Medical Research**

Jalan Pahang 50588
Kuala Lumpur
Malaysia
Tel. +60 3 2616 2666
Fax +60 3 2693 9335
www.imr.gov.my

**National Pharmaceutical
Control Bureau**

Lot 36, Jalan Universiti
46200 Petaling Jaya
Selangor Darul Ehsan
Malaysia
Tel. +60 3 7883 5400
Fax: +60 3 7956 2924
www.bpfk.gov.my

New Zealand**New Zealand
Medicines and Medical
Devices Safety Authority**

PO Box 5013
Wellington 6145
New Zealand
Tel. +64 04 819 6800
Fax +64 04 819 6806
www.medsafe.govt.nz

South Korea**Ministry of Food
and Drug Safety**

Osong Health Technology
Administration Complex
187 Osongsaeng-
myeong2(i)-ro
Osong-eup,
Cheongwon-gun,
Chungcheongbuk-do,
Korea 363-700
www.kfda.go.kr
(in Korean, with English
option)

Vietnam**Ministry of Health**

138A Giang Vo
Ba Dinh
Ha Noi, Vietnam
Tel. +84 62732273
Fax: +84 38464051
www.moh.gov.vn

EUROPE**European
Chemicals Agency**

PO Box 400, FI-00121 Hel-
sinki, Finland
Tel. +358 9 686180
echa.europa.eu

European Commission

200 Wetstraat/
Rue de la Loi
1000 Brussels, Belgium
Tel. +32 800 6789 10 11
ec.europa.eu

**European Directorate for
the Quality of Medicines
and Healthcare (Council of
Europe and Pharmacopoeia)**

7 allée Kastner
CS 30026
F67081 Strasbourg
France
Tel. +33 3 88 41 30 30
Fax +33 3 88 41 27 71
www.edqm.eu

**European Free
Trade Association**

9-11, rue de Varembe
1211 Geneva 20
Switzerland
Tel.: +41 22 332 26 00
Fax: +41 22 332 26 77
www.efta.int

**European
Medicines Agency**

7 Westferry Circus
Canary Wharf
London E14 4HB
United Kingdom
Tel. +44 20 7418 8400
Fax +44 20 7418 8416
www.ema.europa.eu

**International
Pharmaceutical Excipients
Council of Europe**

9, Avenue des Gaulois
B-1040 Brussels
Belgium
Tel. +32 2 736 53 54
Fax +32 2 732 34 27
www.ipec-europe.org

Belgium**Federal Public Service:
Health, Food Chain Safety,
and Environment**

Eurostation II
Place Victor Horta
40 box 10
1060 Brussels, Belgium
Tel. +32 2 524 97 97
www.health.belgium.be

France**National Security
Agency of Medicines
and Health Products**

143/147 bd. Anatole France
93285 Saint-Denis
France
Tel. +33 1 55 87 30 00
Fax +33 1 55 87 30 20
www.ansm.sante.fr

Germany**Federal Ministry of Health**

Rochusstraße 1
53123 Bonn
Germany
Tel. +49 030 18441 0
Fax +49 030 18441 4900
www.bmg.bund.de

**Federal Institute for Drugs
and Medical Devices**

Kurt-Georg-
Kiesinger-Allee 3
D-53175 Bonn, Germany
Tel. +49 228 99 307 0
Fax +49 228 99 307 5207
www.bfarm.de

Ireland**Irish Medicines Board**

Kevin O'Malley House
Earlsfort Centre,
Earlsfort Terrace
Dublin 2, Ireland
Tel. +353 1 676 4971
www.imb.ie

Italy**Ministry of Health**

Ministero della Salute
Lungotevere Ripa, 1
00153 Rome, Italy
Tel. +39 06 5994 1
www.salute.gov.it

The Netherlands

**Medicines
Evaluation Board**
P.O. Box 8275
3503 RG Utrecht
The Netherlands
Tel. +31 88 224 8000
Fax +31 88 224 8001
www.cbg-meb.nl

Health Care Inspectorate

Postbus 2680
3500 GR Utrecht
The Netherlands
Tel. +31 88 120 50 00
www.igz.nl

Russia

**Ministry of Public Health
and Social Development**
Rakhmanovski
pereulok 3/25
127994 Moscow
Russian Federation
Tel. +7 495 927 2848
www.minzdrav-rf.ru

Spain

**Spanish Medicines and
Medical Devices Agency**
C/ Campezo N° 1
Edificio 8
28022 Madrid
Tel. +34 902 101 322
www.aemps.gob.es

**Ministry of Health,
Social Policy and Equality**

Paseo del Prado, 18-20
Planta baja
esquina con Lope de Vega
28014 Madrid, Spain
Tel. +34 901 400 100
www.msssi.gob.es

Sweden

Medical Products Agency
PO Box 26
SE-751 03 Uppsala
Sweden
Tel. +46 18 17 46 00
Fax. +46 18 54 85 66
www.lakemedelsverket.se

Switzerland

**Swiss Agency for
Therapeutic Products**

Hallerstrasse 7
PO Box CH-3000
Bern 9, Switzerland
Tel. +41 58 462 02 23
Fax +41 58 462 02 12
www.swissmedic.ch

Turkey

Ministry of Health
Mithatpasa Cad.
No. 3 Sihhiye
06434 Ankara, Turkey
Tel. +90 312 585 1000
www.saglik.gov.tr

**United Kingdom
Medicines and
Healthcare Products
Regulatory Agency**

151 Buckingham Palace
Rd.
Victoria
London, SW1W 9SZ
United Kingdom
Tel. +44 20 3080 6000
Fax +44 203 118 9803
www.mhra.gov.uk

**MIDDLE EAST
& AFRICA****Egypt**

**Ministry of
Health and Population**
www.mohp.gov.eg

Ghana

Ministry of Health
PO Box M 44
Ministries
Accra, Ghana
Tel. +233 302 665651
www.moh-ghana.org

Israel

**Israel Institute for
Biological Research**
POB 19, 7410001
Ness-Ziona, Israel
Tel. +972 8 938 1656
Fax +972 8 940 1404
www.iibr.gov.il

Israel Ministry of Health

29 Rivkah St.
Jerusalem, Israel 91010
Tel. +972 2 6241010
www.health.gov.il

Jordan

Ministry of Health
Tabarbour
P.O. Box 86
Amman 11118
Tel. +962 5200230
www.moh.gov.jo

South Africa

Medicines Control Council
Private Bag X 828
Pretoria 0001
Tel. +27 12 395 8000
www.mccza.com

Uganda

Ministry of Health
Plot 6 Lourdel Rd,
Nakasero
P.O. Box 7272
Kampala Uganda
Tel. +256 414 340872
Fax. +256 41 4231584
www.health.go.ug

United Arab Emirates

Ministry of Health
PO Box 848
Hamdan Street
Abu Dhabi
United Arab Emirates
Tel. +971 2 6330000
www.moh.gov.ae
(in Arabic, with English
option)

Yemen

**Ministry of Public
Health & Population**
Tel. +967 1 250888
Fax +967 1 252243
www.mophp-ye.org/eng-
lish

WORLDWIDE**International Conference
on Harmonization**

15, chemin Louis-Dunant
PO Box 195
1211 Geneva 20
Switzerland
Tel. +41 22 338 32 06
Fax +41 22 338 32 30
www.ich.org

**Pharmaceutical
Inspection Convention/
Pharmaceutical Inspection
Cooperation Scheme
(PIC/S)**

Secretariat
14 rue du Roveray
CH-1207 Geneva
Switzerland
Tel. +41 22 738 92 16
Fax +41 22 738 92 17
www.picscheme.org

**World Health
Organization (WHO)**

Avenue Appia 20
1211 Geneva 27
Switzerland
Tel. +41 22 791 21 11
Fax +41 22 791 31 11
www.who.int

Key FDA, EMA, and ICH Manufacturing Related Guidances and Guidelines

(Issued June 2013–May 2014, starting with the most recent)

FDA Final Guidances

ANDAs: Stability Testing of Drug Substances and Products, Questions and Answers
May 2014

Interpreting Sameness of Monoclonal Antibody Products Under the Orphan Drug Regulations
April 2014

CMC Postapproval Manufacturing Changes To Be Documented in Annual Reports
March 2014

E2B(R3) Electronic Transmission of Individual Case Safety Reports Implementation Guide—Data Elements and Message Specification; and Appendix to the Implementation Guide—Backwards and Forwards Compatibility
February 2014

Providing Regulatory Submissions in Electronic Format—Receipt Date
February 2014

Qualification Process for Drug Development Tools
January 2014

Q4B Evaluation and Recommendation of Pharmacopoeial Texts for Use in the ICH Regions: Annex 14: Bacterial Endotoxins Test General Chapter
October 2013

Safety Labeling Changes—Implementation of Section 505(o)(4) of the Federal Food, Drug, and Cosmetic Act
July 2013

Providing Submissions in Electronic Format—Postmarket Non-Expedited ICSRs Technical Questions and Answers
July 2013

Heparin for Drug and Medical Device Use: Monitoring Crude Heparin for Quality
June 2013

Abbreviated New Drug Applications: Stability Testing of Drug Substances and Products
June 2013

Codelvelopment of Two or More New Investigational Drugs for Use in Combination
June 2013

M2: eCTD Specification Questions & Answers and Change Requests Companion Document
June 2013

FDA Draft Guidances

Immunogenicity-Related Considerations for the Approval of Low Molecular Weight Heparin for NDAs and ANDAs
April 2014

Fees for Human Drug Compounding Outsourcing Facilities Under Sections 503B and 744K of the FD&C Act
March 2014

Labeling for Human Prescription Drug and Biological Products Approved Under the Accelerated Approval Regulatory Pathway
March 2014

Bioavailability and Bioequivalence Studies Submitted in NDAs or INDs—General Considerations
March 2014

Allowable Excess Volume and Labeled Vial Fill Size in Injectable Drug and Biological Products
March 2014

New Chemical Entity Exclusivity Determinations for Certain Fixed-Combination Drug Products
February 2014

Analytical Procedures and Methods Validation for Drugs and Biologics
February 2014

Providing Regulatory Submissions in Electronic Format—Submissions Under Section 745A(a) of the Federal Food, Drug, and Cosmetic Act
February 2014

Providing Submissions in Electronic Format—Standardized Study Data
February 2014

Size, Shape, and Other Physical Attributes of Generic Tablets and Capsules
December 2013

Bioequivalence Studies With Pharmacokinetic Endpoints for Drugs Submitted Under an Abbreviated New Drug Application
December 2013

Pharmacy Compounding of Human Drug Products Under Section 503A of the Federal Food, Drug, and Cosmetic Act
December 2013

Registration for Human Drug Compounding Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act
December 2013

Interim Product Reporting for Human Drug Compounding Outsourcing Facilities Under Section 503B of the Federal Food, Drug, and Cosmetic Act
December 2013

Q3D Elemental Impurities
October 2013

Abbreviated New Drug Application Submissions—Refuse-to-Receive Standards
October 2013

Endocrine Disruption Potential of Drugs: Nonclinical Evaluation
September 2013

Bioanalytical Method Validation
September 2013

Generic Drug User Fee Amendments of 2012: Questions and Answers (Revision 1)
September 2013

Expedited Programs for Serious Conditions—Drugs and Biologics
June 2013

Pending Guidances

View a list of FDA guidances under development in 2014 at www.fda.gov/RegulatoryInformation/Guidances.

EMA Draft Papers, Guidelines, and Procedures

Draft guideline on process validation for the manufacture of biotechnology-derived active substances and data to be provided in the regulatory submission
April 2014

Key aspects for the use of pharmacogenomic methodologies in the pharmacovigilance evaluation of medicinal products
January 2014

Draft reflection paper on the data requirements for intravenous iron-based nano-colloidal products developed with reference to an innovator medicinal product
September 2013

EMA Adopted or Updated Papers, Guidelines, and Procedures

Stability testing for applications for variations to a marketing authorisation
April 2014

Interim guidance on enhanced safety surveillance for seasonal influenza vaccines in the EU
April 2014

Guideline on process validation for finished products—information and data to be provided in regulatory submissions
February 2014

Guideline on the declaration of the quantitative composition / potency labelling of biological medicinal products that contain modified proteins as active substance
February 2014

Joint MHLW/EMA reflection paper on the development of block copolymer micelle medicinal products
December 2013

Pharmaceutical development of medicines for paediatric use
July 2013

Quality of biological active substances produced by transgene expression in animals
June 2013

Guideline on the use of starting materials and intermediates collected from different sources in the manufacturing of non-recombinant biological medicinal products
June 2013

ICH Guidelines

Guideline for Elemental Impurities Q3D
July 2013

SOURCE FOR INFORMATION HEREIN: FDA WEBSITE (WWW.FDA.GOV), CDER GUIDANCE SECTIONS, ACTUAL GUIDANCE DOCUMENTS, EMA WEBSITE (WWW.EMA.EUROPA.EU), AND ICH WEBSITE (WWW.ICH.ORG) AS OF MAY 2014.



(July 2014–June 2015)

UPCOMING EVENTS

July 2014

Infectious Diseases World Summit 2014

Date: July 9–11
Location: Boston, MA
More Info: www.gtcbio.com

DCAT's Sharp Sourcing 2014

Date: July 10
Location: New Brunswick, NJ
More Info: www.dcat.org

41th Annual Meeting & Exposition of the Controlled Release Society

Date: July 13–16
Location: Chicago, IL
More Info: www.controlledreleasesociety.org

28th Annual Symposium of the Protein Society

Date: July 27–30
Location: San Diego, CA
More Info: www.proteinsociety.org/symposium

Facility Design, Innovation and Qualification

Date: July 29–31
Location: Philadelphia, PA
More info: www.cbinet.com/conference/PI14018

August 2014

IVTs Annual Microbiology Week

Date: Aug. 4–6
Location: Philadelphia, PA
More Info: www.cbinet.com/microweek

CPhI South America

Date: Aug. 5–7
Location: Sao Paulo, Brazil
More Info: www.cphi-sa.com

American Chemical Society National Meeting & Exposition

Date: Aug. 10–14
Location: San Francisco, CA
More Info: www.acs.org

CBI's 9th Annual Forum on Manufacturing Execution Systems (MES)

Date: Aug. 14–15
Location: Philadelphia, PA
More Info: www.cbinet.com/conference/pc14144

CHI's 3rd Annual High- Concentration Protein Formulations

Date: Aug. 20–21
Location: Boston, MA
More Info: www.bioprocessingsummit.com/Protein-Formulations

Cleaning Validation and Critical Cleaning Processes

Date: Aug. 19–21
Location: San Diego, CA
More Info: www.cbinet.com/conference/pi14040

Formulation and Process Development for Oral Dosage Forms

Date: Aug. 25–29
Location: Princeton, NJ
More Info: www.pt-int.com

September 2014

Pharmacovigilance 2014

Date: Sept. 10–11, 2014
Location: Philadelphia, PA
More Info: <http://www.cbinet.com/conference/pc14071>

2014 PDA/FDA Joint Regulatory Conference

Date: Sept. 8–10
Location: Washington, DC
More Info: www.pda.org

Pharma ChemOutsourcing

Date: Sept. 15–18
Location: Long Branch, NJ
More Info: www.chemoutsourcing.com

12th Annual Pharmaceutical IT Congress

Date: Sept. 22–23
Location: London, UK
More Info: www.pharmatechnology-summit.com

October 2014

CPhI Worldwide

Date: Oct. 7–9
Location: Paris, France
More Info: www.cphi.com

ISPE Annual Meeting

Date: Oct. 12–15
Location: Las Vegas, NV
More Info: www.ispe.org

World Vaccine Congress Europe 2014

Date: Oct. 13–15
Location: Brussels, Belgium
More Info: www.terrapinn.com

INTERPHEX Puerto Rico

Date: Oct. 16–17
Location: San Juan, PR
More Info: www.interphexpuertorico.com

PDA Visual Inspection Forum

Date: Oct. 21–22
Location: Berlin, Germany
More Info: www.pda.org

International Pharmaceutical Compliance Congress

Date: Oct. 21–22
Location: Brussels, Belgium
More Info: www.cbinet.com/conference/pc14084

2nd Antibody & Protein Therapeutics

Date: Oct. 23–24
Location: Boston, MA

More Info: www.gtcbio.com/conferences/anti-body-protein-therapeutics-overview

NORD's Rare Diseases and Orphan Products Breakthrough Summit

Date: Oct. 21–22

Location: Alexandria, VA

More Info: www.cbinet.com/conference/pc14015

Pharma Trials World Korea 2014

Date: Oct. 21–23

Location: South Korea

More info: www.terrapinn.com/conference/pharmatrials-world-korea/index.stm

GPhA 2014 Fall Technical Conference

Date: Oct. 27–29

Location:

North Bethesda, MD

More Info: www.gphaonline.org

IVT's 20th Annual Validation Week

Date: Oct. 28–30

Location: Philadelphia, PA

More Info: www.cbinet.com/conference/pi14083

November 2014

BIO-Europe 2014

Date: Nov. 3–5

Location: Frankfurt, Germany

More Info: www.ebdgroup.com/bioeurope

2014 AAPS Annual Meeting and Exposition

Date: Nov. 2–6

Location: San Diego, CA

More Info: www.aaps.org/annualmeeting

5th Annual West Coast Compliance Congress

Date: Nov. 13–14

Location:

San Francisco, CA

More Info: <http://www.cbinet.com/conference/pc14151>

December 2014

World Drug Manufacturing Summit 2014

Date: Dec. 1–3

Location: Berlin, Germany

More Info: www.wdmsummit.com

CPhI India

Date: Dec. 2–4

Location: Mumbai, India

More Info: www.cphi-india.com

11th Annual Method Development and Validation

Date: Dec. 9–11

Location: San Diego, CA

More Info: www.cbinet.com/conference/pi14081

January 2015

Biotech Showcase 2015

Date: Jan. 12–14

Location:

San Francisco, CA

More Info: www.ebdgroup.com/bts

PCC 2015–12th Annual Pharmaceutical Compliance Congress

Date: Jan. 27–28

Location: Washington, DC

More Info: www.cbinet.com/conference/pc15001

February 2015

InformEx 2015

Date: Feb. 3–6

Location: New Orleans, LA

More Info: www.informex.com

Chemspec Asia

Date: Feb. 4–5

Location: Singapore

More Info: chemspecevents.com/asia/

March 2015

ChemExpo Africa

Date: March 3–4

Location: Johannesburg, South Africa

More Info: chemspecevents.com

Pittcon 2015

Date: March 8–12

Location: New Orleans, LA

More Info: www.pittcon.org

2015 PDA Annual Meeting

Date: March 16–18

Location: Las Vegas, NV

More Info: www.pda.org

DCAT Week 2015

Date: March 16–19

Location: New York, NY

More Info: www.dcat.org

April 2015

World Vaccine Congress Washington 2015

Date: April 7–9

Location: Washington, DC

More Info: www.terrapinn.com

INTERPHEX 2015

Date: April 21–23

Location: New York, NY

More Info: www.interphex.com

ExcipientFest Americas

Date: April 28–29

Location: San Juan, Puerto Rico

More Info: www.excipientfest.com

June 2015

2015 AAPS National Biotechnology Conference

Date: June 8–10

Location: San Francisco, CA

More Info: www.aaps.org/nationalbiotech

51th DIA Annual Meeting

Date: June 14–18

Location: Washington, D.C

More Info: www.diahome.org

BIO International Convention 2015

Date: June 15–18

Location: Philadelphia, PA

More Info: convention.bio.org

For more events throughout the year, visit PharmTech.com/events.



Industry Innovation Outlook

Rita Peters

Business, regulatory, and technology decisions can impact drug development.

Many benchmarks can be used to evaluate an industry's past performance and project future success or challenges. For example, FDA drug approvals, perhaps the leading standard, dropped in 2013 when 27 novel new molecular entities were approved for patients (1). The approval numbers were down from 2012, when 39 drugs were approved, a 10-year high (1). The approval numbers for 2014 appear to be on track with the 2013 tally, with 15 approvals as of May 31 (2). Figure 1 shows drug approval trends for the past 10 years.

Refilling drug research and development pipelines can be complicated by scientific and technical setbacks and business decisions to maximize current profits. Beyond benchmarks and science challenges, societal and economic factors can influence the pharmaceutical industry growth.

Industry analysts predict that an aging population will increase demand for innovator drugs to address the health needs of that demographic. Implementation of the Affordable Care Act will result in a larger pool of insured patients seeking safe, inexpensive generic drugs. Payer pressure from governments and insurers to reduce drug prices may impact the bottom line of drug

companies. These trends, and others, may dictate the type of drugs that are developed, and how and where they are developed and manufactured.

To compile this outlook for the bio/pharmaceutical industry, the editors of *Pharmaceutical Technology* invited sponsors of this Industry Guide and Outlook to share their perspectives on industry dynamics, regulatory challenges, and technology advances. These thought-leader commentaries, which address a range of topics, are summarized here. See the noted page for the full commentary.

Meeting market challenges

The industry needs to leverage its strengths, capabilities, and assets to spur on innovation to ensure that the pipeline of new drugs keeps up with the market opportunity, says Roger Gallo, president and CEO of EquipNet (see page 173).

"Companies must not rely on overvalued products in existing therapies," says Prem C. Jain, president and CEO of Spectrum Chemical Mfg Corp., but should adopt "a cross-functional strategy that includes both commercial and R&D functions" (see page 185).

Derek Hennecke, CEO of Xcelience, identifies three reasons for optimism:

biotech is pushing pharma to improve, the Human Genome Project is starting to deliver results, and incentives are spurring orphan-drug development (see page 187).

While large-molecule drugs are making some advances, solid-dose manufacturing is here to stay, says Tom Tappen, director, business development of Fluid Air. The predictable dosage delivery and performance of solid-dosage drugs are complemented by new delivery forms including orally disintegrating tablets and capsules (see page 175).

Choosing and using the correct tools

Technology advances in bio/pharmaceutical manufacturing will be driven by innovation, efficiency demands, or regulatory necessity, according to several thought leaders.

Current research on the impact of powder properties on tablet properties may help advance the implementation of continuous manufacturing for drug products allowing manufacturers to combine multi-unit operations into a single process with integrated process controls, says Dale Natoli, president of Natoli Engineering Company (see page 179).

Another continuous process, hot-melt extrusion technology, continues to grow as a solution to address API solubility and stability issues, reports C.W. Brabender Instruments (see page 171).

In biomanufacturing, smaller bioreactors are producing higher yields; combined with single-use technologies and improvements in protein purification, these technologies contribute to accelerated product development, says Michiel E. Ultee, CSO, Gallus BioPharmaceuticals (see page 176).

Microbial quality control testing requires multi-step processes that are labor-intensive, but lean manufacturing principles, through the use of automation, improve efficiencies, says Julie Sperry, chief commercial officer, Rapid Micro Biosystems (see page 183).

Drug companies should not only be concerned about ensuring the secure delivery of drugs through the supply chain. They also need to be concerned about medication non-adherence issues,

says Patrick R. Stewart, vice-president of sales, technology solutions for AmericasourceBergen Technology Group. Automated pharmaceutical packaging systems that produce strip-packed doses for hospitals and other institutions can assist with delivering proper doses to patients, he says (see page 169).

Regulations direct change

FDA's Process Validation Guidance, issued in 2011, has extended process validation—now called process performance qualification—from early-stage product and process design through the life of the product. Phase-appropriate methodologies are necessary, says Kumar Dhanasekharan, director of process development, Cook Pharmica (see page 170).

With the long-awaited changes to *United States Pharmacopeia* Chapters <232>, <233>, and <2232> for trace metal impurities expected for December 2015, the next 18 months are a vital time for drug developers to evaluate the instruments they use, says Jonathan Sims of PerkinElmer (see page 181).

Regulations evolve when industry provides feedback to regulators about real-world applications of technology, says Paul Daniel, senior regulatory expert at Vaisala, and he predicts that compliance with good distribution practices will be more efficient and reliable with technology improvements (see page 186).

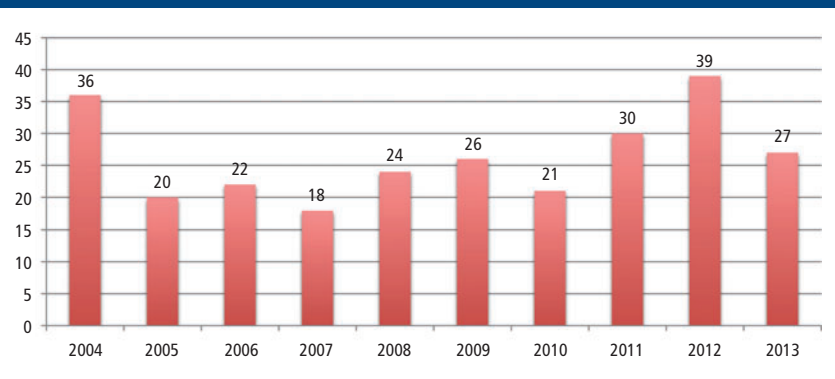
Business change is the new norm

The contract services industry also has seen change-related business challenges.

Contract organizations that listen to clients, respond strategically, and stay ahead of technology changes are best suited to succeed in serving an evolving customer base, says Magdalena R. Mejilano, vice-president of cGMP laboratory services for PPD (see page 182).

Contract manufacturers must also adopt new technologies to manufacture emerging therapies. For example, Metrics has added isolation technologies for contained manufacturing processes to meet the growing demands for cytotoxic and potent APIs, says Joe Cobb, director, pharmaceutical development at Metrics (see page 177).

Figure 1: Number of new molecular entities (NMEs) approved. Source: FDA



Industry trend: QbD Benefits and Challenges

Quality by design (QbD) has become mainstream in many bio/pharmaceutical organizations, according to *Pharmaceutical Technology's* 2014 Equipment and Manufacturing Survey. However, barriers to implementation remain. (Multiple answers allowed.)

What have been the benefits of QbD on your process?

Better process understanding	75.2%
Increased efficiency or reduced waste	58.2%
Shorter process times	31.2%
Reduced costs	37.6%
Improved ease of making changes	44.0%
Streamlining regulatory review	34.8%

What are the challenges to implementing or barriers to using QbD?

Management buy-in	38.1%
Lack of knowledge/training	59.1%
Clarity on regulatory guidance	40.3%
Availability of necessary software tools	31.3%
Availability of necessary equipment	34.7%
No barriers	9.7%

Improving operations

Other thought leaders advised that drug manufacturers should focus on principles of effective facility operation and investigate ways to improve operations through technology-based solutions.

For example, Geoff Sheffrin, principal with OBK Technology, urges close monitoring of “the life blood” of GMP facilities: air and water (see page 180).

Manufacturing equipment and instruments previously used by leading drug manufacturers can be an alternative purchase option to new equipment, says Larry Kadis, president and CEO for Federal Equipment Company (see page 174).

Control systems can become over-complicated in an effort to improve pro-

cess consistency, data acquisition, and accountability, warns Gary Barber, general manager, Ross SysCon, Charles Ross & Son Company (see page 184).

Other technology and service offerings discussed include weight control and monitoring systems from MG America (see page 178), 316 L stainless steel containers from Eagle Stainless Container (see page 172), and contract development and manufacturing services from Aenova (see page 168).

References

1. FDA, *Novel New Drugs 2013 Summary*, (Rockville, MD, January 2014).
2. FDA, *New Drugs at FDA: CDER's New Molecular Entities and New Therapeutic Biological Products of 2014*, www.fda.gov (accessed June 12, 2014). **PT**

Aenova

AENOVA—A LEADER IN CDMO SERVICES

Aenova is a global leader in contract manufacturing of finished dose forms for pharmaceutical and nutraceutical products. Aenova offers a large portfolio of services and manufacturing expertise at every stage within your product lifespan, from development to commercial manufacturing. With more than 20 manufacturing sites located throughout the United States and Europe, Aenova distributes products worldwide. Our core customer service foundation is built on a simple but important principle; consistently deliver high quality and excellent customer service. Operating under common cGMP practices backed by global and local regulatory agency approvals, quality is never an afterthought. Aenova stands by its strong financial performance, offering contract manufacturing supply stability in a wide variety of dosage forms such as, softgel capsules, solids, semi-solids, liquids, and parenterals.

Specialized Services

Aenova offers a wide breath of development and manufacturing services in:

- Softgel capsules technologies for enteric delivery
- MUPS—multiple unit pellet system for solid dose form delivery
- Special handling—cytotoxic APIs, penicillins, and hormones
- Liquid vials—aseptic and terminal sterilization
- Lyophilized vials
- Solid dose—tablets, effervescent tablets, capsules, and powders
- Liquids—solutions, ointments, gels, suspensions
- Suppositories

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Patrick R. Stewart
Vice-President of Sales, Technology Solutions
AmerisourceBergen Technology Group



USING INNOVATIVE TECHNOLOGY TO SOLVE NON-ADHERENCE

There is one word keeping the industry up at night and also driving innovation by healthcare providers, tech companies, and packaging solutions: adherence.

Annually, medication non-adherence costs our healthcare system an estimated but staggering \$317 billion (1). To put this in perspective, in February 2013 Cleveland Clinic, CEO, Delos Cosgrove said on CBS This Morning that, "Two-thirds of the increase in the national debt is from healthcare or is healthcare-related."

Non-adherence is an issue that cannot be avoided or ignored. The good news for patients in settings where healthcare providers or officials oversee medication intake, such as hospitals, assisted-living facilities, long-term care facilities, and jail/private prison facilities, is that medication non-adherence issues can be a thing of the past.

At AmerisourceBergen Technology Group, we believe that healthcare providers will continue to seek new ways to apply existing technology to make medication dispersal more time and cost efficient, increase adherence, and reduce error.

IHS Pharmacy in Rainsville, Alabama is taking advantage of how technology can help grow business and improve patient adherence. This corner pharmacy opened 50 years ago to serve its small rural town. As a way to grow their business, owners Myra Sanderson and her father invested in AmerisourceBergen's FastPak EXP, an automated pharmaceutical packaging system.

With FastPak's speed, accuracy, and high capacity, IHS caught the attention of hospitals, assisted living facilities, long-term care facilities, and jail/private prison facilities in 17 states. Receiving strip-packed doses from IHS means medications are packed accurately and professionally with little room for error or misuse.

As hospitals face readmission fees, pharmacists and payers worry about CMS Star measures and patients just want to feel better, the pressure to solve for the cost and burden of non-adherence will only increase.

AmerisourceBergen Technology Group gets patients the critical medications and therapies they need, the moment they need them, in the right dosage through adaptive technology that helps overcome barriers. We look forward to continuing to advance how we address one of the most costly issues in healthcare today.

REFERENCE

1. America's \$317B Condition, Express Scripts Infographic, 2012.

ABOUT PATRICK R. STEWART

Having spent more than 20 years in sales and marketing, Patrick focuses on bringing technology solutions to clients.

ABOUT AMERISOURCEBERGEN TECHNOLOGY GROUP

AmerisourceBergen Technology Group is a business unit of AmerisourceBergen®, a company solely dedicated to pharmaceutical supply chain management through pharmaceutical distribution, technology, and consulting solutions.



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THOUGHT LEADER
INNOVATION OUTLOOK

Kumar Dhanasekharan, PhD
Director, Process Development
Cook Pharmica



LEAD WITH SCIENCE—EMBRACING THE NEW PV GUIDANCE FOR SUCCESS

The FDA's Process Validation Guidance, issued in 2011, has caused a paradigm shift in how the industry views validation, and this has implications for biopharmaceutical development. Successful process performance qualification (PPQ), historically called process validation (PV) runs, now more than ever depends on biopharmaceutical development, including early-stage process design all the way through late-stage process characterization. Validation is no longer limited to the PV runs, which are now referred to as PPQ. But instead, it applies to the entire product and process lifecycle that starts from early-phase product and process design through end stage when the product is discontinued from the market.

At Cook Pharmica, we employ phase-appropriate methodologies to biopharmaceutical development and embrace the lifecycle approach to validation. During early-phase development, such as pre-clinical or Phase I/II, we have established process development technology platforms that enable speed-to-market without compromising the scientific basis. The platform processes are previously well characterized for a class of molecules such as monoclonal antibodies. Cook Pharmica uses industry-best practices with standard equipment, process steps, and scale-up, which further results in a seamless technical transfer to GMP manufacturing. We also establish an analytical control strategy early on to ensure that the process design meets the critical quality attributes (CQAs) and regulatory expectations. For late-stage process development, Phase III and beyond, our team conducts process characterization studies that are designed specifically to understand operating ranges and acceptable ranges via design optimization experimental approaches. The process characterization is further informed by appropriate risk assessments throughout the lifecycle.

All studies throughout development are documented in detailed development reports that culminate in a process control strategy (PCS). The PCS summarizes the process parameter categorization as critical and key process parameters; acceptable ranges based on process characterization data; CQAs and corresponding analytical control strategy—with process flow charts and associated in-process controls. The PCS then becomes the foundational piece for moving into PPQ with appropriate protocols and the validation master plan, which sets our clients up for success.

In summary, we have embraced a risk-based phase-appropriate approach, leading with science throughout the product and process lifecycle to address this significant change in the process validation paradigm.

ABOUT KUMAR DHANASEKHARAN

Dr. Dhanasekharan is the director of process development at Cook Pharmica and leads cell culture, purification, analytical, and formulation development, including lab operations and scale-up.

ABOUT COOK PHARMICA

Cook Pharmica provides biopharmaceutical companies with development, clinical or commercial cell culture manufacturing, formulation, parenteral product manufacturing, and secondary packaging services.



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C.W. Brabender® Instruments



12MM TABLE-TOP TWIN-SCREW EXTRUDER BENEFITS NEW DRUG DEVELOPMENT USING HME

The benefits of extrusion in the pharmaceutical industry are numerous and increasingly recognized because it's a continuous process (time and cost saving with better controllability against batch processes), well-established technology (wide spectrum of excipients commercially available and high level of expertise already established), highly reproducible (batch uniformity and conformity), flexible process (monolithic and multi-particulate dosage forms can be obtained), and it's an easy, time and cost saving way to modify drug release properties (solubility enhancement or release prolongation).

Consequently, hot-melt extrusion (HME) continues to grow as a solution for new drug development because of its ability to address many challenges that arise. Our company has made a concerted effort to address these challenges with our line of pharmaceutical twin-screw extruders.

HME addresses the challenge of low bioavailability due to poor API solubility because it's a rapid and cost-effective method for solubility enhancement of poorly soluble APIs (continuous, no drying step is needed). Stability issues (moisture sensitive API) are handled because HME is a dry process suitable for moisture-sensitive drugs. HME handles non-robust prolonged release properties because it is an easy, reliable way to achieve prolonged drug release, and it has a reduced risk of dose dumping compared to coated monolithic systems. When the formulation of API as films is needed, HME serves as a rapid and reliable method for preparation of films (strips or patches).

The newest pharmaceutical twin-screw extruder in our line for HME applications is the PTSE 12/36EC, a 12mm 36:1 L/D stand-alone table-top twin-screw extruder for compounding small quantities with scale-up ability to larger twin-screw extruders. Numerous features are built into this new unit making it suitable for early development and preparation of samples for clinical studies and HME studies including its compact design (small footprint), clamshell barrel (allowing easy cleaning and trouble shooting), removable barrel liner (for fast cleaning or sterilization), small batch size, multiple heating zones, segmented screws (which can be re-arranged and adapted to specific needs of each extrusion run), high maximal torque, and separate special cooling for the feeding zone (for powder/liquid). The unit offers the real advantage of using the extruder with different L/D ratios without having to modify the total length of the barrel or the screws. The complete barrel is split horizontally to allow quick access to all parts in contact with the material for rapid cleaning and easy analysis of the extrusion process.

ABOUT C.W. BRABENDER® INSTRUMENTS

C.W. Brabender® Instruments' pharmaceutical focus specializes in manufacturing top quality twin-screw extruders for HME applications to produce small batch sizes. Our many years of knowledge allows us to present a solution to the increased demand for small batch analysis while providing the finest quality equipment and instruments.

The logo features the word "Brabender" in blue and "CWB" in red, with vertical lines separating the letters.

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 THOUGHT LEADER
 INNOVATION OUTLOOK

Charles Lin, PhD
VP & Sr. Partner
Eagle Stainless Container



ABOUT EAGLE STAINLESS CONTAINER

Since 1990, Eagle Stainless, located in Warminster, Pennsylvania has been manufacturing polished 316 L containers, vessels, and bottles for the pharmaceutical/bio-tech and semi-conductor industries. They range in size from 1 mL to 500 L and are used for:

- processing
- storage/transport
- shelf life/stability studies.

We can electropolish/passivate our containers and welcome requests for custom fabrication projects or custom modifications of our existing product line. Custom tri-clamp cap assemblies can have fittings (TCs/hose barbs/dip tubes) welded or in some cases, machined in one piece. The inside/outside of each weld can be polished to a sanitary finish. ASME pressure vessels are also available from 0.5 L to 20 L.



ABOUT CHARLES LIN

Charles Lin, PhD, became a co-owner of Eagle Stainless in 2009 and has more than 25 years previous experience at Wyeth/Pfizer Pharmaceuticals. His experience ranges from drug discovery to API process R&D, technology transfers/validations, and API global sourcing. He also managed plant operations for clinical and commercial API supply.

EAGLE
STAINLESS | DESIGN AND
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CHANGE AND GROW

Things change. Some change is fast and disruptive. The transition from the 20th century to the 21st century saw many industries face significant challenges. In the first 14 years of this new age, publishing, retail, music, as well as energy generation and supply industries, for example, have seen their traditional business models under attack, with only the nimble and adaptive remaining healthy.

The pharmaceutical/biotechnology industries now face a similar disruptive inflection point. An aging population, coupled with elements of the Affordable Care Act, are causing more people in the US to be insured. This increase in insured population looks set to result in drug demand being in growth mode for many years to come. However, the ability to innovate and develop new drugs has become an increasingly more difficult and expensive task. At the same time, generic-drug maker's ability to develop high quality lower cost drugs is fundamentally changing the landscape for both large pharma and biotech discovery. Increasing the challenge is the fact that the regulatory environment in both the US and across the globe has become increasingly burdensome. When you blend all these factors together, it's clear that the seeds of change caused by these pain points are beginning to grow—rapidly.

So what is the likely outcome from these trends?

1. The aging population worldwide means that a focus on issues surrounding Alzheimer's, cardiovascular disease, and mental health will create enormous opportunities for those that can find solutions, as will strategies that promise to extend healthy life.
2. Technology will continue to be a significant driver. Given the expense, time, and effort needed to commercialize a drug, improved technology and the ability to invest to better screen, determine efficacy, and improve drugs will become the norm in early-stage development, well before clinical trials have even begun. This 'fail early, fail cheap' approach will increase the speed of development and increase successes.
3. Much has been written about how pharma needs to change the paradigm of drug discovery and development. Success will likely involve industry giants working even more closely with the small research companies who can innovate in promising therapeutic areas. Some of these small innovators will be swallowed up by big pharma but, interestingly, leading pharma companies are now more open to alternative strategies—such as hosting discovery incubators and investing in academic partnerships. Bottom line is, pharma needs to leverage its strengths, capabilities, and assets and make them more readily available to spur on innovation and ensure the pipeline of new drugs keeps up with market opportunity.

While change is not always welcomed, it is surely inevitable. Those industries where the headwinds of change have begun to pick up, the ability to recognize change and adapt will ultimately determine the winners and losers.

ABOUT ROGER GALLO

Prior to joining EquipNet, Mr. Gallo was the CEO and president of UIS, Inc. where he oversaw the transformation of a printing company into three distinct and specialist businesses. He led the exit process of all three businesses as they were sold. Prior to UIS, Mr. Gallo worked as an analyst for PaineWebber in investment banking. Mr. Gallo has a BA from Claremont McKenna College and an MBA from Harvard Business School.

ABOUT EQUIPNET

EquipNet is the leading provider of asset management programs to global corporations, helping them identify, track, redeploy, sell, and purchase surplus laboratory instrumentation and manufacturing equipment.



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THOUGHT
LEADER

INNOVATION OUTLOOK

Larry Kadis
President and CEO
Federal Equipment Company



BUYING HIGH-QUALITY USED EQUIPMENT: WHAT IS THE COMPLETE SOLUTION?

Manufacturing equipment investment is an ongoing challenge for CMOs and generic manufacturers. While quality and reliability are the primary considerations, budgets are not unlimited. At first glance, the best way to ensure quality and reliability are addressed is to purchase new equipment, but new equipment can be cost prohibitive and may not be necessary.

Used equipment dealers, such as Federal Equipment Company, provide an attractive alternative by offering high-quality, used equipment from recognized manufacturers. Additionally, they can offer other value-added services, such as additional training/troubleshooting, and third-party software/consulting solutions.

Used Equipment. High-quality used equipment from recognized manufacturers are an attractive alternative to the expense of new machines. Used machines, previously operated by industry-leading companies, are typically well maintained. Reputable equipment dealers stock these surplus machines and offer them at considerable savings.

Used equipment is typically priced at a fraction of the prices for new equipment and is generally available immediately. If the need is a result of an equipment failure, a dealer can supply equipment quickly, minimizing downtime. CMOs and generic manufacturers can obtain the equipment they need to win new projects at lower costs. Engaging a used equipment dealer provides the opportunity for significant cost savings and the ability to obtain high-quality equipment in a short period of time.

Training and Troubleshooting. In addition to offering high quality equipment at a better price than new, dealers are often able to provide additional services. For example, Federal Equipment offers a complete solid-dose manufacturing training and troubleshooting solution through Techceuticals. Techceuticals is an industry leader in solid-dose manufacturing providing training and troubleshooting on a wide-array of equipment including moisture and particle analyzers, blenders, mills, wet and dry granulating, tablet presses, coating, and encapsulation. Techceuticals assists costumers with equipment selection, formula development, optimization, and training.

Third-Party Software/Consulting Solutions. Federal Equipment Company offers Intellicentric™, an intelligence-based manufacturing software model that was developed in concert with top pharmaceutical manufacturing suppliers and service providers, coupled with Pfizer® Incorporated's experience and broad manufacturing knowledge base. The Intellicentric software platform transforms dry data into knowledge and intelligence. It enables an organization to move from a reactive model to proactive and preventative strategies. Operations cease to be stand-alone and isolated, becoming instead integrated into the larger infrastructure and plant/enterprise strategies. Intellicentric changes the way pharmaceutical manufacturers look at their manufacturing processes by harnessing the complementary power of data models, engineering, and IT.

ABOUT LARRY KADIS

Larry Kadis, president and CEO of Federal Equipment Company, has more than 40 years experience as a leader in the used processing equipment industry.

ABOUT FEDERAL EQUIPMENT COMPANY

Federal Equipment Company provides quality used equipment, outstanding service, and competitive prices that meet the needs of the processing equipment industry and other manufacturing industries.



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Tom Tappen
Director Business Development
Fluid Air



SOLID-DOSAGE MANUFACTURING IS HERE TO STAY

Solid-dose delivery forms have become more and more sophisticated and complex in the past 10 years. Equipment manufacturers are now required to build machinery to accommodate these new delivery systems.

Tablets and capsules formerly came in two basic forms: immediate release and modified release. Now we see both forms in one tablet, orally disintegrating tablets, solids delivered in rapid dissolving film, mini-tabs, and capsules containing both liquid and solids. Even though it is not a delivery form, there is a company now producing a microchip compressed into a tablet that will notify your physician when you take your medication (or fail to take it)! Another new form on the market are sustained-release delivery systems, which are increasingly complex: a layer for immediate release; a buffer; a layer for 2-6 hours.

A second phenomenon is increased regulatory influence. We see a paradox where the large pharma companies and FDA are promoting initiatives like PAT, QBD, and continuous manufacturing, yet the regulatory morass of approval frustrates attempts by pharmaceutical producers to take advantage of technology advances.

The future of solid-dose manufacturing of tablets/capsules will remain the primary drug-delivery form for a number of reasons:

- 1) Proven, accepted, predictable performance
- 2) Cost efficient
- 3) Easy to administer
- 4) Able to achieve predictable dosage delivery
- 5) Stable
- 6) Relatively tamper proof
- 7) Established methods for monitoring.

There are a number of new and very interesting forms of delivery coming into the market, but when measuring pros and cons, tablets and capsules will prevail.

Choosing a new system can be difficult, we hear from customers who got a "fabulous" deal and price on a new machine only to find out that there is no service or parts available in the USA and no one around who can be of help! Be sure to adequately define what is needed in the way of process, batch size, controls, data logging, change-over, maintenance, and validation requirements. Choose a company based on their ability to customize a system to customer specifications and their reputation for prompt, competent service and training.

ABOUT TOM TAPPEN

Tom Tappen is a graduate of Rutgers University and the University of Southern California Graduate School of Business Executive Program. He is a veteran of the pharma industry for 33 years with Thomas Engineering and Fluid Air and has been involved with solid-dosage process and process equipment over this time span.

ABOUT FLUID AIR

Fluid Air manufacturers custom solid-dosage processing systems including fluid beds, high-shear mixers, size reduction mills, and tablet coating systems to improve your process.



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THOUGHT
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INNOVATION OUTLOOK

Michiel E. Ultee, PhD
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INNOVATIONS IN BIOMANUFACTURING

Technological innovations are dramatically facilitating development of biopharmaceuticals. First, cell-culture titers of recombinant proteins in bioreactors have increased 10-fold in the past decade, resulting in higher yield from a given size of bioreactor. This translates into the use of smaller or fewer bioreactors, producing smaller volumes, decreasing costs, and accelerating development. Single-use technologies, not really practical at large (>2000 L) scale, have mushroomed as smaller bioreactors have become the norm. As a result, capital costs, turn-around time between runs, cleaning, energy, and labor costs have all decreased. These upstream technological innovations are facilitating development.

Beyond upstream production, innovations in protein purification in downstream processing are also contributing to accelerated development. Some proteins, such as IgG monoclonal antibodies, are now so well understood that platform-based processes, which streamline development, are now commonplace. Higher (2-3X) capacities for a number of chromatographic supports, including the standard affinity technique, Protein A chromatography, result in smaller-scale processes producing more material. New membranes for protein separations based on ion-exchange techniques facilitate faster flow rates and more single-use technologies.

High-throughput techniques are also accelerating process development. Arrays of mini-bioreactors, such as the ambr™ system from Sartorius Stedim of 24-48 mini-bioreactors, allow rapid development of optimal conditions for cell growth and productivity. Micro-plate methods of protein purification are also available, allowing rapid evaluation of multiple conditions for any given separation. These techniques extend to mini-columns, such as those from Atoll-bio, to permit true evaluation of flow effects and determinations of dynamic-binding capacities.

Where does technology lag behind? Production of some proteins, for example those with poor solubility and low expression, continues to be a challenge. Secondly, production processes for protein pharmaceuticals continue to be long, with a standard scale-up and fed-batch production run using mammalian cell cultures taking five weeks. Continuous bioprocessing, with perfusion cultures combined with modified simulated moving bed (SMB) chromatographic purification, may offer a route to address these long production times.

At Gallus we continually evaluate and employ new technologies and methods to facilitate efficient development of biopharmaceuticals for our clients. We offer both perfusion and fed-batch bioreactor processes, and utilize single-use technologies, from cell culture through aseptic filling. We recently added the ambr™ mini-bioreactor system, for example, and collaborate with many other innovative developers of bioprocessing technologies. By staying in front of the field with these cutting-edge technologies, we offer our clients technological excellence to rapidly develop their discoveries into tomorrow's biotherapeutics.

ABOUT MICHIEL E. ULTEE

As the Chief Scientific Officer, Mike serves as a scientific resource for projects and a liaison with clients and the biopharmaceutical community. Mike previously held various positions at Laureate BioPharma since 1987 and has over 30 years of experience in antibody and protein development and manufacturing. He holds 4 U.S. patents and has published numerous scientific articles. He is a frequent speaker at conferences, and a member of the editorial advisory boards of Bioprocess International and BioPharm International.

ABOUT GALLUS BIOPHARMACEUTICALS

Gallus is a mammalian cell culture CMO offering a unique level of flexibility and strategic appeal to companies seeking to develop and manufacture protein therapeutics.



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Joe Cobb, CPIP
 Director, Pharmaceutical Development
 Metrics



METRICS EMPLOYS HARD-WALL ISOLATION TECHNOLOGIES IN DEDICATED POTENT FACILITY

The pharmaceutical industry is experiencing growth in the proportion of cytotoxic and potent API in the pipeline—a challenge that companies are addressing in a number of different ways.

At Metrics, we chose to build a custom-engineered, state-of-the-art dedicated potent and cytotoxic facility that provides total containment using hard-wall isolation technologies. Metrics went with purpose-built, hard-wall isolation after carefully researching alternatives. Local ventilation and laminar/down-flow technologies are versatile and comfortable, but dependent on work practice. Flexible barrier solutions are practical and offer good containment, but pose cleaning challenges—and, if disposable, a cost challenge.

In our case, another consideration was that due to space constraints, Metrics could not house each piece of manufacturing equipment (i.e., granulator, mill, blender) in its own customized isolator. Ergonomic considerations and our suite footprint required a novel approach to smaller-scale manufacturing of highly-potent compounds.

So Metrics engineered a series of multi-use, hard-wall isolators that accommodate up to three pieces of processing equipment—resulting in a total of eight available equipment bays. While processing equipment is standard, we modified each piece by installing it through a metal baffle that fits into any bay on any isolator. Our isolators handle Phase I-III projects up to 10 kg in size.

We also created isolation barriers for use elsewhere in our operations, not because projects require it, but to provide an extra measure of safety for employees. So we are taking containment concepts successfully engineered for our potent facility and are pushing them out elsewhere in development and manufacturing to make those operations as safe as possible for operators, even for projects that require lower levels of containment.

As an industry, pharmaceutical companies have a good handle on isolation technologies. Within Metrics' facility, for example, our hard-wall containment systems are rated down to occupational exposure levels (OEL) of 30 nanograms per cubic meter of room air. Equipment and change parts are dedicated exclusively to potent use. Our facility features independent entry, exit and equipment double airlocks, decontamination showers, dedicated washroom, dedicated equipment storage, and pass thru for product/waste. Such functionalities are common throughout the industry.

One thing that differentiates Metrics' potent facility from others is flexibility. Our structure allows clients to select only those capabilities needed for particular projects. Metrics' goal is to not have dedicated clean systems standing dormant waiting for the proper project, which is a situation a more traditionally built potent facility might experience.

ABOUT JOE COBB

Joe Cobb, CPIP, manages all projects involving early-phase solid oral dosage development at Metrics which includes its dedicated and segregated potent facility.

ABOUT METRICS

A full-service CDMO, Metrics specializes in formulation development; first-time-in-man formulations; Phase I-III clinical trial materials manufacturing; and analytical method development and validation services. Metrics proudly operates as a subsidiary of Mayne Pharma Group Limited.



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THOUGHT LEADER
 INNOVATION OUTLOOK

Claudio Radossi
 Director of Sales
 MG America



EMERGING INDUSTRY CHALLENGES

One increasingly prevalent challenge in pharmaceutical manufacturing is the need to accurately measure net product weight within tight tolerances while adhering to high quality standards. There is a growing demand for the escalation of both speed and precision, which understandably presents technological challenges to machinery manufacturers.

In 1997, MG2 developed the first 100% "Net" capsule weight control and monitoring system. While this system was effective for measuring standard capsule weights, it had limitations for applications where the net capsule weight was less than 25mg, as well as in situations that required measurement of multiple components dosed into a single capsule

In order to overcome these hurdles, MG2 recently developed the 100% "Multi-NETT" system, which offers the ability to monitor and control the net capsule weight in low-dose applications (5-25mg). Multi-NETT can singularly monitor and control the net capsule weight of multiple components dosed into a capsule, and rejects any capsule that exceeds preset weight tolerances.

ABOUT MG AMERICA

MG America supplies processing and packaging machinery to the pharmaceutical and nutritional industries throughout North America. The company's packaging equipment includes case packers, thermoforming machines, blister packaging machines, sachet and stick pack machines, aseptic filling lines, track-and-trace solutions, powder micro-dosing, washing machines, palletizers, inspection systems, and syringe assembly machines. MG America also offers capsule fillers for R&D, scale-up, intermittent motion, and continuous motion.



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Dale Natoli
President
Natoli Engineering Company



CONTINUOUS MANUFACTURING OFFERS OPPORTUNITY, CHALLENGES

Continuous manufacturing offers the pharmaceutical industry the opportunity to combine research and development investigations that have been addressing process variability in the multiple unit operations required to manufacture drug products into a single process that is much more amenable to process control and more capable of making quality medicines. The first principles understanding of the granulation and blending of API and excipients coupled with the ability to measure in real time via PAT the process responses that are critical to quality allows what was previously a long and involved process involving days and weeks to be streamlined into a process involving minutes and hours.

Significant advances in understanding the rheological and size properties of powders and the impact on solid oral-dosage forms that these properties impart to the quality of a drug product has helped advance the development of continuous manufacturing processes. For tablet compression, these powder properties are now being utilized to understand the behavior of formulations in tablet press rotary power feeders, the performance of the powder on the die table with respect to weight variability, and the impact of excessive powder recirculation due to an improperly set up tablet press.

Rotary power feeders are designed to simply provide powder to a location on the tablet press where the powder has the opportunity to fill the die whether through the action of gravity or the suction force of the lower punch pulling down inside the die. Some powders flow through the rotary feeder in a plug flow manner, while other formulations exhibit poor flow and tend to segregate due to the inherent properties of the powder. Natoli is investigating different force feeder paddle configurations to minimize powder recirculation in the feeder, which may cause particle size degradation and inconsistent presentation of the formulation to the dies resulting in tablet weight variability and perhaps content uniformity problems.

At the Natoli Institute for Industrial Pharmacy Research and Development at Long Island University, work is being done to understand quantitatively the impact of variations in powder properties on tablet properties. By addressing this and other problems associated with the performance of powders on rotary tablet presses, new knowledge will be revealed and from this new solutions offered to the industry.

We welcome your inquiry and/or visit to our facility at LIU. Please contact Charles N. Kettler PhD, Director of Natoli Scientific for more information.

ABOUT DALE NATOLI

Author of chapters in three books, Mr. Natoli has 33 years of experience in the tableting industry. He presents lectures for universities, pharmaceutical associations, and tablet manufacturers worldwide.

ABOUT NATOLI ENGINEERING COMPANY

An industry leader for more than 40 years, Natoli Engineering Company is the worldwide source for superior tablet compression equipment and support services.



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THOUGHT
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INNOVATION OUTLOOK

Geoff Sheffrin P. Eng.
Principal
OBK Technology

DON'T FORGET THE BASICS!

All utilities in GMP space are to a degree critical. I would argue that two are more critical than the others—namely air and water. Not only the “life blood of humans” but also the life blood of pharma facilities.

I would argue that air is by far the best monitored, after all, you live and work in it all the time—it constantly embraces you. You know when it has gone off track.

What about the water? We often come across situations where the water is not always on track.

We recommend staying on top of the data. Trend it/review it/be sure it is not gently creeping away from you and from compliance. Batch running, poor velocities, and inadequate sanitation are all supporting the buildup of bio-film. Your storage tank is the best “swamp” in your system.

Look at the USP standards—micro and endotoxins are not zero. That means there is a microscopic amount of deleterious residual.

Watch and trend all the parameters—particularly conductivity and TOC. They will give you early warning but only if you trend and then look at the data.

PW and WFI systems are incredibly reliable—they should not fail.

Don't lose sight of the basics.

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ABOUT GEOFF SHEFFRIN

Geoff Sheffrin, P. Eng., is a principal partner in OBK Technology. Geoff has extensive and broad-based experience in pharmaceutical, food industry, and personal care products. The OBK Water Group traces its origins back for almost a decade serving industry needs for our various clients.

ABOUT OBK TECHNOLOGY

OBK Technology is a full-service consulting engineering firm providing service to the pharmaceutical, food and personal care industries. OBK is also a full-service and validated water turnkey water provider for high-end USP water purification systems and industrial utility water and waste water treatment systems.

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Jonathan Sims
USP 232 Technical Advisor
PerkinElmer



IMPLEMENTATION OF UNITED STATES PHARMACOPEIA CHAPTERS

<232>, <233> AND <2232>

In December 2015, the United States Pharmacopeia (USP) will introduce a major change to the regulation of trace metal testing for pharmaceutical materials—the only unknowns are the exact limits to be applied. We do know that the limits being discussed will, in most cases, require inductively coupled plasma mass spectrometry (ICP–MS) or inductively coupled plasma optical emission spectroscopy (ICP–OES) data to support release of drugs to patients. The regulatory framework does allow risk assessments to replace some testing, and the associated ICH Q3D process describes methods for undertaking risks assessments. Eighteen months is not a long time for a company to assimilate the intentions of USP, purchase and install equipment (or identify testing contractors), recruit skilled analysts, collect data, perform risk assessments, and be ready to convince the FDA that their products are safe. While larger pharmaceutical companies may already be prepared for this deadline, many other businesses may have limited resources to commit to major work prior to the publication of a definitive set of limits and are therefore still looking for guidance on what to do.

PerkinElmer is a major supplier of ICP–MS and ICP–OES instruments worldwide and has the expertise and resources to support current and future customers through this change. Perkin Elmer:

- Has added expertise from the pharmaceutical industry to improve customer support for USP <232> compliance
- Has a time-tested, comprehensive software for Regulation 21 *CFR* Part 11 compliance to provide confidence in the customers' ability to satisfy FDA inspections
- Has an intelligent automation system to improve ICP–MS testing efficiency through automated generation of calibration standards and automatic dilution and retesting of over-range samples
- Is implementing a series of webinars and face-to-face seminars to provide awareness and training in risk assessments and testing
- Is developing data-handling tools to support validation of ICP–MS or ICP–OES methods complying with USP <233>.

ABOUT JONATHAN SIMS

Jonathan Sims is a career chemist and recognized leader in the pharmaceutical industry. He supports PerkinElmer's continuing investment in developing comprehensive solutions for the new USP <232> <233> <2232> regulations.

ABOUT PERKIN ELMER

Combined with its long history in trace metals and its substantial investments to support the new USP chapters, PerkinElmer is a strong and welcome partner available for businesses facing the challenge of keeping their products on the US market after 2015.



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INNOVATION OUTLOOK

Magdalena R. Mejillano, PhD
Vice President, cGMP Laboratory Services
PPD



PPD EXECUTIVE PREDICTS AMPLE OPPORTUNITY FOR INNOVATIVE CONTRACT ORGANIZATIONS

If there's one certainty about the bio/pharmaceutical industry today, it's that undergoing transformational changes will undoubtedly shape the future of contract service organizations. Mergers and acquisitions, regulatory hurdles and failed drug approvals, patent expirations, lack of innovation, shrinking development pipelines, shedding of assets, restructuring and downsizing, globalization, the rise of emerging markets, the generics surge, quality and compliance issues, and so on, all seem to point to greater opportunities for contract organizations.

The pharmaceutical contract industry (CROs, CLOs, CMOs, and CDMOs) has experienced business growth of varying degrees over the past few years as it continues to innovate and provide more cost-effective and viable solutions to address issues facing the pharmaceutical industry. For one, the contract industry has implemented efficiency and productivity measures that have resulted in enhanced deliverables that meet or exceed client expectations. Quality and compliance have reached levels that reflect success from integrating best practices from a wide array of customers. More and more aspects of the drug development process are being outsourced to highly respectable organizations that have the infrastructure, capabilities, and regulatory expertise necessary to get a drug to market. When bio/pharmaceutical companies choose to outsource full programs or large portions of studies with these contract companies, it is no longer just a transactional deal or a tactical approach, but rather a partnership with shared risks and rewards. Finally, the contract industry's talent pool has been enhanced due to the influx of experience and expertise coming from the positions being shed by the pharma and biotech companies.

At the same time, the stakes are higher, the norms have been elevated and business and operational requirements for contract organizations have never been more complex or more challenging. Those contract organizations that listen openly and respond strategically to their clients' changing needs, those that stay ahead of the curve in terms of technology innovations, those that can flex and customize their solutions to best suit a given client, and those that can put the patient's interests first and foremost above any corporate objectives are more likely to succeed in capturing business opportunities and establishing sustainable partnerships with the evolving bio/pharmaceutical customer base.

There will be many opportunities in the next several years to enhance business strategies and operational performance and establish mutually beneficial partnerships with bio/pharma. Best of luck to all as we work to achieve the perfect strategic alignment of client and provider for our organizations!

ABOUT MAGDALENA MEJILLANO

Dr. Mejillano has been leading PPD's cGMP laboratory since 1995. She holds a master's in chemistry and a doctorate in biochemistry, both from the University of Kansas.

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Julie Sperry
Chief Commercial Officer
Rapid Micro Biosystems



ALIGNING THE MICRO QC LAB WITH LEAN PRINCIPLES THROUGH AUTOMATED TECHNOLOGIES

The principles of lean manufacturing have been a mainstay for businesses for decades. Companies have designed their manufacturing processes to optimize efficiency and minimize waste (i.e., resources, travel, materials) to deliver high quality products in the most effective manner.

However, in the complex manufacturing of pharmaceuticals, one area is just starting to adopt lean principles. The microbial quality control testing lab operates with processes and technologies that are similar to those invented more than a century ago. At a time when the microbiology lab is resource constrained, and microbiologists are being asked to do more with less, lean principles can have a profound effect on the operation.

Beyond process improvement and much like the manufacturing line, the microbiology lab can take advantage of automated technologies that can eliminate steps and improve the flow of the laboratory.

Consider the example of environmental monitoring testing. A laboratory technician must perform several steps to capture samples, then return to the lab, incubate the samples, wait for a pre-defined time period, pull the samples from the incubator, examine each sample for growth, then record the colony forming unit counts either on paper or key the information into a laboratory information management system. Given the volume of environmental monitoring cassettes that are tested daily, this creates a large amount of work for the microbiology lab.

With automation, the workflow can change. The laboratory technician may still capture the samples, but rather than place them in the incubator, they are loaded into an automated rapid detection technology that incubates, enumerates, and reports on each sample without the need for human intervention. The technician is now free to work on higher-value activities and is only required to look at samples that are out of specification.

The integration of an automated technology to the microbiology testing lab can dramatically change the way that the laboratory operates and increases the value that the lab can bring to the rest of the manufacturing process. The laboratory is now able to focus on other activities and respond to increases in production and test volume without the need to increase resources.

Lean manufacturing has transformed the way businesses manufacture products. These transformative principles, when applied to the microbiology laboratory and accentuated with automation create an efficient flow with minimal waste.

ABOUT JULIE SPERRY

Julie Sperry has more than 30 years' experience in healthcare, pharmaceutical, and manufacturing operations. Ms. Sperry has served in various management and leadership roles for companies in the pharmaceutical industry.

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INNOVATION OUTLOOK

Gary Barber
General Manager, Ross SysCon
Charles Ross & Son Company



SIMPLE WISDOM: UN-COMPLICATE YOUR MIXING CONTROL SYSTEM

In the drive to improve process consistency, data acquisition and accountability, many companies make the easy mistake of over-complicating their control systems. This is often the result of “layering” features onto the control design to address a long list of process and reporting requirements coming from many contributors. Or over-designing the control in order to be **110% sure** it complies with code.

But greater complication doesn't necessarily lead to tighter control and lower risk on the process line. In fact, the opposite is true. And over-design often produces more problems than just unnecessary cost. It can also make the system more cumbersome to operate, slow down production and even **increase** the risk of operator error.

We have a simple, 3-step philosophy for un-complicating control design.

- 1) **Eliminate the distinction between the mixer or blender and the control system.** Stop thinking of the mixer, first, and then of the control system as an accessory. Instead, think of them as two inseparable, mutually dependent parts of a single *mixing system*.
- 2) **On the manufacturing side of the equation, the design of the mixing system – including the control system – must include three engineering team members working together from start to finish:**
 - Field Engineering: Our field sales engineers interpret process requirements and specify the mixing system. This specifically includes identifying all critical design challenges, for both the mixer and the control, early in the process.
 - Mixer Engineering: Customize the mixer design to accomplish the process goals and accommodate the process environment.
 - Control Engineering: Design the control from the ground up to interface smoothly with the equipment, accommodate the real-world environment in the plant, and arrive fully pre-tested and ready to begin production.
- 3) **Apply contemporary technology but avoid over-design by identifying opportunities to streamline the mixer/control design in order to satisfy less stringent code requirements.** For example, many pharma manufacturers making products such as transdermals that involve solvents and other hazardous materials believe they are obliged to meet the Class 1 Div 1 standard. But this is not always true. By changing the spatial relationship between the touch-screen panel and the mix vessel, we can fit the Class 1 Div 2 code profile instead of Class 1 Div 1. The potential savings is substantial – so long as design changes like this one are made collaboratively, often with corresponding changes in the mixer design to ensure that operation remains easy and intuitive.

ABOUT GARY BARBER

With 25+ years of experience, Gary Barber oversees the engineering, design and manufacture of automated process controls, PLC-based recipe-driven systems, purge control panels and custom skid packages.

ABOUT COMPANY

Ross is the world's leading manufacturer of custom blenders, mixers and control systems for the pharmaceutical industry. Ross SysCon is the company's full-service controls division.



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Prem C. Jain, PhD
President and CEO
Spectrum Chemical Mfg Corp.



DEALING WITH TODAY'S MARKET CHANGES IN THE PHARMACEUTICAL INDUSTRY

The pharmaceutical/bio industry has experienced major shifts, such as those due to globalization, the rise of generics, biologics, and acquisitions/mergers. Therefore, pharmaceutical/bio drug development companies must take effective measures to adjust to current market changes. Regulators, payers, and providers evaluating new medical devices must place emphasis on comparative efficacy. Therefore, to succeed in an ever changing business environment, companies must not rely on over-valued products in existing therapies.

Successful companies can generate data, building the brand's lifetime clinical profile by developing robust clinical strategies early in the drug's lifecycle. New reimbursement guidelines have made it difficult for pharmaceutical companies to yield profits on recently approved products. Value can be maximized by adopting a cross-functional strategy that includes both commercial and R&D functions.

To deliver value and to control costs, companies can use "design to value" as price pressures increase. The practice of oncology, for example, will be influenced by clinical pathways over the long-term. To achieve value, pharmaceutical companies must understand how these pathway solutions are developed and use them as insightful input in their own commercialization and R&D strategies. The decline of productive research and development has been experienced in recent years. To regain consumers' trust, companies must rely upon creativity and discipline in delivering life-changing new drugs.

Commercial models and tailored capabilities must be developed in tackling the challenges of securing emerging market growth opportunities and pharmaceutical companies must navigate individual market intricacies. Recent scientific advances have poised personalized medicine for rapid growth. Thus, pharmaceutical companies can capture many new opportunities through the implementation of right strategies.

Industry changes have affected biopharmaceutical product launches. The companies must recognize several factors—namely, 1) the new product does not end at the launch party, 2) project management should be viewed as a source of competitive advantage while being both objective and honest in confronting launch plan gaps, 3) the team must develop a complete understanding of market influence and embrace advanced analytics to increase ROI, 4) provide periodic launch updates, and 5) rethink their competitive differentiation and create brand positioning that can stretch over future indications.

Furthermore, the companies must manage adjustments to market and regulatory changes, enterprise and supply chain risks, realize bottom-line acquisition and merger value plus develop, retain, and attract top talent, improve decision-making information through effective analytics, and data management to decrease commodity costs, achieve customer loyalty, and increase the business performance to enhance competitiveness.

ABOUT PREM C. JAIN, PhD

Dr. Prem Jain received his PhD in chemistry from the University of Southampton and currently holds the position of president and CEO at Spectrum Chemical.

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Paul Daniel
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THE EVOLUTION OF GDP: HOW TECHNOLOGY & BIG DATA WILL CHANGE COLD CHAIN

Regulations are rarely static. They come into being and evolve over time according to the environment. Such is the case with new Good Distribution Practice (GDP). Formerly, there were no explicit GDP regulations, so they had a genesis. But how do regulations change over time? Usually change occurs because the industry provides feedback to regulators about what works in the real world. This feedback generates balanced, economically feasible solutions, and gives rise to new innovations.

For example, in the case of the FDA's 21 CFR Part 11, new technology for electronic records and signatures (ERES) was emerging and new regulations came into being to control its use. Industry provided feedback that full compliance was neither economical, nor effective. This dialogue brought a new tool to the forefront: risk assessment.

Compared to electronic records, distribution seems simpler. Items move from one location to another. There are no invisible digital bits and bytes. However, this simplicity is misleading because of the massive scale of our global distribution network. Like electronic records, distribution's degree of complexity creates some similar concerns. With ERES, we are concerned with tampering, authenticity, and unintended changes. With GDP, we have the same concerns, but here the unintended changes that can impact product quality are caused by improper storage and handling.

I predict that, like Part 11, GDP stakeholders will provide feedback on what is technologically possible and economically feasible. The first response will also be similar to Part 11: a risk-assessment approach. Using risk assessment tools, manufacturers can target critical elements of their supply chain with regulatory effort and resources.

Already, application of this approach has resulted in more expensive, higher-feedback technologies in the easily controlled distribution legs closest to the manufacturer, and cheaper, lower-feedback technologies (i.e., single-use data loggers) in more peripheral distribution legs. These changes will expand slowly for it is very much an educational effort, and its largest barrier is arguably the GMP sophistication of participants on the periphery of the supply chain.

Here are my predictions about the next few years of GDP evolution:

- 1) Technological changes will make GDP compliance more efficient, more reliable, and less expensive.
- 2) Such changes will be augmented by regulatory pressure to comply with track and trace legislation such as the US Drug Quality and Security Act (DQSA).
- 3) Big data will be used to access untapped information to better address the challenges of GDP.

ABOUT PAUL DANIEL

Paul Daniel, Senior Regulatory Compliance Expert at Vaisala, has 17 years of validation experience in the pharmaceutical and medical device industries. Daniel has extensive practical experience in applying the good manufacturing practices principles of the FDA 21 CFR Parts 11, 210, 211, and 820, and has written and executed hundreds of validation protocols for pharmaceutical manufacturing applications. Daniel holds a Bachelor's in Biology (with honors) from the University of California, Berkeley.

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Derek Hennecke
CEO
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PHARMA FORECAST: THREE REASONS FOR OPTIMISM

A few short years ago, the pharma industry stood on the precipice of the patent cliff and the outlook was full of crags and shadows. During the month of May, the pharma sector was up 21% over the past twelve months and the forecast calls for convertibles and sunglasses. Do you trust the meteorologist? I do. Here are three good reasons to go get your best Bermuda shorts.

Biotech is lighting a fire under pharma

After years of tepid results, biotech is on fire. Landmark products abound, from Gilead's Solvadi, which could earn the company \$3 billion this year, to Biogen Idec's Tecfidera, which is expected to see \$1 billion in revenues.

Big pharma is benefitting from this trend. Fewer and fewer companies rely on clunky old R&D departments for their innovation. Today's large pharma lets the hungry, agile biotech companies do the hard work and bring the best prospects to them.

The industry watched while Merck last year sunk \$8 billion into internal R&D, and harvested a very poor crop, while Sanofi and others grabbed a shopping cart and wandered down the aisles of the biotech superstore. The XBI, the largest biotech ETF, has 44 promising companies, and a value of, coincidentally, just under \$8 billion.

The Human Genome Project is (finally) delivering

After years of hype and promise, just when we'd all but given up, this project is serving up results. Vertex has a drug that treats a subset of patients with cystic fibrosis, made possible because of improved understanding of the malfunctioning gene that causes it. Bluebird Bio, a small Celgene partner, is developing a treatment for sickle cell anemia that inserts a properly functioning version of the bad gene into the patient's blood cells.

The implications of unraveling the human genome go beyond more and better medicine. Because we can now identify precisely which patients have the genetic markers to make them candidates for a particular treatment, clinical trials can be smaller, cheaper, and show better results. Cheaper clinical trials make it more economical to research treatments for rare diseases. The FDA gives special treatment to these drugs, allowing them a speedier path to approval.

More research incentives

The Obamacare incentives to promote orphan drug development are really exciting to me. The more avenues we open to get drugs to market, the more broad-based future innovation will be. We will discover far more than we set out to discover.

ABOUT DEREK HENNECKE

Derek Hennecke is the founder of Xcelience, a CDMO in formulation development and clinical packaging located in Tampa, FL. Mr. Hennecke launched Xcelience as a management buyout in 2006, and the company has more than doubled in size.

ABOUT XCELIENCE

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