

# 2024 Buyers' Guide

**For Service Providers and Suppliers of Raw Materials, Manufacturing Equipment, Instrumentation, Packaging, Environmental, Software, and More!**

## I. RAW MATERIALS

### A. ADDITIVES

00150 ABRASION RESISTANCE IMPROVERS  
 00200 ABSORBENTS  
 00220 ACCELERATORS/HARDENERS  
 00250 ACID CATALYSTS  
 00300 ACID SCAVENGERS  
 00350 ADHESION PROMOTERS  
 00400 AMINE NEUTRALIZERS  
 00450 ANTI-BLOCKING AGENTS  
 00500 ANTI-CRATERING AGENTS  
 00550 ANTI-CRAWLING AGENTS  
 00600 ANTI-FLOAT AGENTS  
 00650 ANTI-FLOODING AGENTS  
 00700 ANTI-FOULING AGENTS  
 00750 ANTI-FREEZING AGENTS  
 00800 ANTI-GELLING AGENTS  
 00850 ANTI-LIVERING AGENTS  
 00900 ANTI-MARRING AGENTS  
**ANTI-MICROBIALS:**  
 00950 Algaecides  
 00975 Bactericides  
 01000 Biocides  
 01025 Cuprous Oxide  
 01050 Enzyme-Based Additives  
 01075 Fungicides  
 01100 In-Can Preservatives  
 01125 Insecticides  
 01150 Misc. Preservatives  
 01175 Non-Mercurial  
 01200 Silver-Based  
**01300 ANTI-OXIDANTS**  
**01350 ANTI-RUST AGENTS**  
**01400 ANTI-SAG AGENTS**  
**01450 ANTI-SETTLING AGENTS**  
**01500 ANTI-SILKING AGENTS**  
**01550 ANTI-SKINNING AGENTS**  
**01600 ANTI-SLIP/ANTI-SKID AGENTS**  
**01700 ANTI-STATIC AGENTS (Anti-Stats)**  
**01750 BIOBASED**  
**01800 BODYING AGENTS**  
**01850 BRIGHTENERS (Optical)**

**01900 BURNISH-RESISTANT ADDITIVES**  
**01950 CATALYSTS**  
**02050 CHELATING AGENTS**  
**02100 CLEANABILITY ADDITIVES**  
**02150 COAGULANTS**  
**02200 COALESCENTS (Coalescing Agents)**  
**02250 COLLOID STABILIZERS**  
**02300 CORROSION INHIBITORS**  
**02350 CORROSION-INHIBITIVE PIGMENTS**  
**02400 COUPLING AGENTS**  
**02450 CRAZE-RESISTANCE ADDITIVES**  
**02500 CROSSLINKING AGENTS**  
**02550 CURING AGENTS**  
**02600 DEAERATORS**  
**02650 DEFLOCCULANTS**  
**DEFOAMERS:**  
 02750 Misc. Defoamers  
 02800 Non-silicone  
 02850 Silicone  
**02900 DEGASSING AGENTS**  
**02950 DENATURANTS**  
**03000 DESICCANTS**  
**03050 DRIER STABILIZERS**  
**DRIERS:**  
 03150 Drying Salts  
 03200 Linoleates  
 03250 Misc. Driers  
 03300 Naphthenates  
 03350 Neodecanoates  
 03400 Octoates  
 03450 Tallates  
 03500 Water Dispersible  
 03550 Waterborne  
**03600 DYES (For Use in Stains)**  
**03650 ELECTROCONDUCTIVE ADDITIVES**  
**03675 ENCAPSULATION TECHNOLOGY**  
**03700 EXTENDERS**  
**03750 FILLERS - NATURAL, CELLULOSIC, POLYMERIC**  
**03800 FISH EYE PREVENTERS**  
**03850 FLAME RETARDANTS**  
**FLATTING AGENTS:**  
 03950 Dispersed  
 04000 Misc. Flattening Agents

04050 Non-Metallic  
**04100 FLOCCULANTS**  
**04150 FLOW & LEVELING AGENTS**  
**04200 FLUIDIZING ADDITIVES**  
**04250 FLUORESCENT ADDITIVES**  
**04300 FOAMING AGENTS**  
**04350 FREEZE-THAW STABILIZERS**  
**04400 GELLING AGENTS**  
**04450 GLOSS IMPROVERS**  
**04500 GLYCERINE**  
**04525 GREEN ADDITIVES**  
**04550 GRINDING AIDS**  
**04600 HALS (Hindered Amine Light Stabilizers)**  
**04650 HAMMER FINISH ADDITIVES**  
**04750 HASE THICKENERS**  
**04800 HEAT STABILIZERS**  
**04850 HEUR THICKENERS**  
**04900 HOMOGENIZERS**  
**04950 HUMECTANTS**  
**05000 HYDROPHILES**  
**05050 HYDROPHOBIC AGENTS**  
**05100 HYGIENIC COATING ADDITIVES**  
**05150 IMPACT RESISTANCE IMPROVERS**  
**05200 INK ADDITIVES**  
**05250 INTUMESCENT ADDITIVES**  
**05300 LEAFING AGENTS**  
**05320 LUBRICANTS (Solids)**  
**05340 LUBRICANTS (Surfaces)**  
**05350 LUMINESCENT ADDITIVES**  
**05400 LUSTRANTS**  
**05450 MASKING AGENTS**  
**05500 MICROSPHERES**  
**05550 MISC. OTHER ADDITIVES**  
**05600 MISC. OTHER CHEMICAL SPECIALTIES**  
**05650 MISC. POWDER COATING ADDITIVES**  
**05700 MISC. VISCOSITY & FLOW-CONTROL AGENTS**  
**MOISTURE SCAVENGERS:**  
 05775 Misc. Moisture Scavengers  
 05800 Molecular Sieves  
 05825 Zeolites  
**05850 NANOTECHNOLOGY ADDITIVES**  
**05900 ODORANTS**  
**05950 OILS**

**06000 ORANGE PEEL PREVENTERS****06050 ORGANIC PEROXIDES****06100 ORGANOCLOCKS****06150 pH-CONTROL AGENTS****06175 PHOTOCATALYSTS****06200 PHOTOINITIATORS****06250 PHOTSENSITIZERS****06300 PINHOLE PREVENTATIVES****PLASTICIZERS:**

06400 Abietates  
 06450 Adipates  
 06500 Benzoates  
 06550 Castor Oil  
 (Polymerized/Oxidized)  
 06600 Castor Oil (Raw/Refined)

06650 Epoxidized  
 06700 Misc. Plasticizers

06750 Oil-Modified

06800 Phosphates

06850 Phthalates

06900 Polymeric

06950 Sebacates

07000 Sulfonamides

**07050 POLYMERIC LIQUID CRYSTALS****07100 PRETREATMENT CHEMICALS****07150 PRINTING INK DISPERSANTS AND VEHICLES****07200 PRINTING INK VARNISHES & COMPOUNDS****07250 PROTECTIVE COLLOIDS****07300 PUFFING AGENTS****07350 REACTIVE DILUENTS****07375 REDUCING AGENTS****07385 RESIN MODIFIERS****07400 RETENTION AIDS****07450 SEAL/BARRIER COATING****ADDITIVES****07453 SELF-HEALING TECHNOLOGY****07475 SLIP AIDS****07485 SMART TECHNOLOGY****07500 SOIL REPELLANTS****07550 SPREADING AGENTS****STABILIZERS:**

07650 Lead  
 07700 Misc. Stabilizers  
 07750 Non-Metallic

**07800 STAIN-RESISTANT ADDITIVES****07850 STEARATES****08150 SURFACE MODIFIERS****08200 SURFACE TENSION REDUCERS****08250 SURFACE-ACTIVE AGENTS****SURFACTANTS AND****DISPERSING AGENTS:**

08350 Anionic  
 08400 Cationic  
 08450 Nonionic  
 08500 Detergents  
 08550 Dispersing Agents  
 08600 Emulsifiers  
 08650 Flow Modifiers  
 08700 Misc. Surfactants & Dispersing Agents

08750 Wetting Agents

**08800 SUSPENSION AGENTS****08850 SYNERGISTS****08900 TACKIFIERS****08950 TEXTURIZING AGENTS****08975 THERMAL CONDUCTIVITY ADDITIVES****THICKENING AGENTS AND RHEOLOGY MODIFIERS:**

09050 Associative Thickeners  
 09100 Cellulosics  
 09150 Clays  
 09200 Fumed Silica  
 09250 Misc. Thickeners  
 09300 Precipitated Silica  
 09350 Solvent  
 09400 Water

**09450 TRIBO-CHARGING ADDITIVES****09500 UV ABSORBERS & LIGHT STABILIZERS****09550 VARNISHES****09600 VISCOSITY MODIFIERS****09650 WATER REPELLENTS****09700 WATER-REMOVAL****AGENTS/SCAVENGERS****09750 WATER-TREATMENT CHEMICALS****09800 WAX EMULSIONS****09850 WAXES****09900 WET EDGE EXTENDERS****09950 WETTING AGENTS****10000 XANTHAN GUM****B. OILS AND FATTY ACIDS****10100 COCONUT OIL****10150 DEHYDRATED CASTOR OIL****10200 FATTY ACIDS****10250 HYDROCARBON INK OILS****LINSEED OIL:**

10350 Blown  
 10400 Boiled  
 10450 Misc. Linseed Oil  
 10500 Raw  
 10550 Refined  
 10600 Special

**10650 MARINE OIL****10700 MISC. OTHERS****10750 OITICICA OIL****10775 PINE OIL****10800 SOYBEAN LECITHIN****10850 SOYBEAN OIL****10900 SUNFLOWER OIL****10950 SYNTHETIC & MODIFIED OILS****11000 TUNG OIL****C. POLYMERS/RESINS****ACRYLIC RESINS:**

11150 Misc. Acrylic  
 11200 Polymer Emulsion  
 11250 Solid  
 11300 Solution  
 11350 Styrene Acrylic Emulsions  
 11400 Vinyl Acrylic  
 11450 Water-Reducible

**ALKYD RESIN:**

11550 Alkyd and Oil Copolymers  
 11600 Drying Oil-Modified  
 11650 Misc. Alkyd

11700 Nondrying & Semi-Oxidizing, Oil-Modified

11750 Thixotropic

11800 Water-Reducible

**11850 AMINO RESINS****11875 BIOBASED****11900 BITUMENS****11925 BUILDING BLOCKS****11950 CELLULOSE RESINS****12000 CROSSLINKING RESINS****12050 EPOXY HARDENERS****EPOXY RESINS:**

12150 Epoxy UV-Curing  
 12200 Ester  
 12250 Liquid Solution  
 12300 Misc. Epoxy  
 12350 Solid  
 12400 Waterborne

**12450 ESTER GUMS****FLUOROPOLYMERS:**

12457 FEVE Resins  
 12460 PVDF Resins

**12475 GREEN RESINS****12500 HIGH-SOLID RESINS****HYDROCARBON RESINS:**

12600 Coumarone-Indene  
 12650 Emulsion  
 12700 Liquid/Solution  
 12750 Misc. Hydrocarbon  
 12800 Polybutadiene  
 12850 Solid  
 12900 Terpene

**12950 MALEIC RESINS****13000 MELAMINE AND MELAMINE-TYPE RESINS****13050 MISC. RESINS****13075 MONOMERS****13100 NATURAL RESINS****13150 NITROCELLULOSE****13200 OLEORESINOUS VARNISHES****13225 ORGANOMETALLIC RESINS****PHENOLIC RESINS:**

13300 Misc. Phenolic  
 13350 Modified for Powder Coatings  
 13400 Polyamide  
 13450 Solid  
 13500 Solution 915  
 13550 Waterborne

**13600 POLYAMIDE RESINS****13650 POLYBUTENES****POLYESTER RESINS:**

13800 Misc. Polyester  
 13850 Saturated  
 13900 Unsaturated  
 13950 Water-Reducible

**13975 POLYOLS****14000 POLYSACCHARIDE RESINS****14050 ROSIN ESTERS****14100 SILICONE RESINS****14125 SMART TECHNOLOGY****STYRENE RESINS:**

14200 Misc. Styrene  
 14250 Styrene/Vinyl Toluene-Polymer & Copolymer Solid  
 14300 Styrene/Vinyl Toluene-Polymer & Copolymer Solution

**14350 Styrene-Butadiene Emulsions****14400 ULTRAVIOLET-CURING RESINS****14450 UREA RESINS****URETHANE AND****POLYURETHANE RESINS:**

- 14550 Oil-Modified (ASTM Type 1)
- 14600 ASTM Type II
- 14650 ASTM Type IV
- 14700 ASTM Type V
- 14750 Misc. Urethane and Polyurethane
- 14800 Waterborne

**VINYL RESINS:**

- 14900 Misc. Vinyl
- 14950 Polyvinyl Acetate
- 15000 Polyvinyl Butyral
- 15050 Polyvinyl Chloride and Polyvinylidene Chloride
- 15100 Vinyl Acetate Polymer Emulsions

**D. PIGMENTS, DISPERSIONS****BLACK, BROWN, AND GRAY PIGMENTS:**

- 15250 Black Iron Oxide
- 15300 Brown and Gray
- 15350 Carbon Black
- 15400 Drop and Bone Blacks
- 15425 IR-Reflective/Cool Black
- 15450 Lampblack
- 15500 Misc. Black

**BLUE PIGMENTS:**

- 15600 Blue, Purple and Violet PMA and PTA Toners and Lakes
- 15650 Indanthrone Blue
- 15700 Iron Blue
- 15750 Misc. Blue, Purple and Violet
- 15800 Phthalocyanine Blue
- 15850 Ultramarine Blue

**15900 COMPLEX INORGANIC COLOR PIGMENTS****CORROSION-INHIBITING PIGMENTS:**

- 16000 Misc. Corrosion-Inhibiting
- 16050 Zinc Dust and Flakes
- 16100 Zinc Phosphate
- 16150 Zinc Yellow

**DYES:**

- 16250 Misc. Dyes
- 16300 Organic
- 16350 Solvent Soluble
- 16400 Water-Soluble

**EXTENDER PIGMENTS:**

- 16500 Alumina Trihydrate
- 16550 Barium Sulfate (Barytes, Blanc Fixe)
- 16600 Bentonite
- 16650 Calcium Carbonate (Natural Ground, Precipitated)
- 16700 China Clay and Aluminum Silicate
- 16750 Feldspar
- 16800 Fillers/Fiber
- 16850 Glass Spheres
- 16900 Mica
- 16950 Microspheres
- 17000 Misc. Extenders

- 17050 Nepheline Syenite
- 17100 Silica - Amorphous-Naturally Occurring

- 17150 Silica - Amorphous-Synthetic
- 17200 Silica - Quartz and Diatomaceous
- 17250 Talc or Magnesium Silicate
- 17300 Wollastonite

**GREEN PIGMENTS:**

- 17400 Chrome Green
- 17450 Chromium Oxide
- 17500 Green PMA and PTA Toners and Lakes
- 17550 Hydrated Chromium Oxide
- 17600 Misc. Green
- 17650 Phthalocyanine Green
- 17700 Pigment Green B

**IRON OXIDE PIGMENTS:**

- 17800 Black Iron Oxide
- 17850 Burnt Sienna
- 17900 Burnt Umber
- 17950 Indian Red
- 18000 Metallic Brown
- 18050 Mineral Black
- 18100 Ochre
- 18150 Raw Sienna
- 18200 Raw Umber
- 18250 Red and Brown Iron Oxide - Natural
- 18300 Red and Brown Iron Oxide - Synthetic
- 18350 Spanish-Type Oxide
- 18400 Transparent Iron Oxides
- 18450 Van Dyke Brown
- 18500 Yellow Iron Oxide-Synthetic

**18550 LIGHT-INTERFERENCE PIGMENTS****METALLIC FLAKES AND POWDERED PIGMENTS:**

- 18650 Aluminum Pastes - Leafing
- 18700 Aluminum Pastes - Non-Leafing
- 18750 Aluminum Powders - Leafing
- 18800 Aluminum Powders - Non-Leafing
- 18850 Gold Bronze Powders
- 18900 Leafing Aluminum Enhancer
- 18950 Other Metallic Flakes and Powders

**18975 OPACITY PIGMENTS****OTHER PIGMENTS:**

- 19050 High-Performance
- 19100 Holographic
- 19150 Iridescent
- 19200 Luminescent and Fluorescent
- 19250 Misc. Other
- 19300 Pearlescent
- 19350 Pearlescent Pigment Dispersions
- 19400 Special-Effect

**PIGMENT DISPERSIONS (AQUEOUS):**

- 19500 Color Concentrates
- 19550 Machine Colorants
- 19600 Presscakes
- 19650 Solvent-Soluble Dyes
- 19700 Tube Colorants
- 19750 Universal Colorants
- 19800 Water-Soluble

**PIGMENT DISPERSIONS (NON-AQUEOUS):**

- 19900 Acrylic Vehicle
- 19950 Alkyd Vehicle
- 20000 Epoxy Vehicle
- 20050 Nitrocellulose Vehicle
- 20100 Polyester Vehicle
- 20150 Universal Solvent Vehicle Dispersion
- 20200 Urethane Vehicle

**RED PIGMENTS:**

- 20300 Alizarine or Madder Lake
- 20350 Arylide Red and Maroon
- 20400 BON Red and Maroon
- 20450 Cadmium Red
- 20500 Cadmium-Mercury Red, Maroon, and Orange
- 20600 Diketopyrrolo Pyrrole (DPP)
- 20650 Lithol Rubine
- 20700 Misc. Red and Maroon Toners and Lakes
- 20725 Naphthol Red
- 20750 Para Red, Chlorinated Paranitraniline Toner
- 20800 Perylene Red and Maroon
- 20850 Pigment Scarlet
- 20900 Pyrazolone Red and Maroon
- 20950 Quinacridone Pigment
- 21000 Red Lake C
- 21050 Rhodamine
- 21100 Sodium Lithol, Calcium Lithol, and Barium Lithol Toner
- 21150 Thioindigold Red and Maroon
- 21200 Toluidine Red

**WHITE PIGMENTS:**

- 21300 Aluminum Phosphate
- 21350 Antimony Oxide
- 21375 TiO<sub>2</sub> Replacement Technology
- 21400 Titanium Dioxide - Anatase
- 21450 Titanium Dioxide - Rutile
- 21500 Zinc Oxide
- 21550 Zinc Sulfide

**YELLOW AND ORANGE****PIGMENTS:**

- 21625 Bismuth Vanadate
- 21650 Cadmium Yellow and Orange
- 21700 Chrome Orange
- 21750 Chrome Yellow
- 21800 Diarylide Orange Toner
- 21850 Diarylide Yellow Toner
- 21900 Hansa Yellow
- 21950 Misc. Yellow and Orange Toners and Lakes
- 22000 Misc. Yellow Pigments
- 22050 Molybdate Orange
- 22100 Orthonitraniline Orange, Dinitraniline Orange

**E. SOLVENTS****22200 ALCOHOLS****22250 ALIPHATIC HYDROCARBONS****22300 AROMATIC HYDROCARBONS****22350 CHLORINATED SOLVENTS****22400 COMPLIANT SOLVENTS****22450 CUSTOM SOLVENT BLENDING**

22500 DENATURED ALCOHOLS  
22550 ESTERS  
22600 GLYCOL ETHERS  
22650 GLYCOLS  
22700 KETONES  
22750 MISC. SOLVENTS  
22800 NITROPARAFFINS  
22850 NON-HAP SOLVENTS  
22900 RECLAIMED SOLVENTS

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## II. MANUFACTURING EQUIPMENT

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23000 AGITATORS  
23050 BATCH CONTROLLERS  
23100 BATCH-WEIGHING EQUIPMENT  
23150 BEADS, CERAMIC  
23200 BEADS, GLASS, SMALL MEDIA  
MILL  
23250 BLENDERS  
23300 BLENDERS, CONICAL  
23350 BLENDERS, CYLINDER  
23400 BLENDERS, PORTABLE  
23450 BLENDERS, RIBBON  
23500 BLENDING TANKS  
23550 BLUNGER  
23600 CENTRIFUGES (also in  
Test/Measurement section)  
**CLEANING:**  
23620 Blasting/Supplies  
23625 Cleaners/Solvents  
23650 Cleaning Equipment (Systems,  
Tub, Etc.)  
23670 Industrial Vacuum Cleaners  
23680 Ultrasonic Cleaners  
23700 COLOR CARDS  
23750 COLOR CONTROL SYSTEMS  
23800 COLOR DISPLAYS  
23850 COLOR FLUSHING EQUIPMENT  
23900 COLOR MERCHANDISING AIDS  
23950 COLOR METERS, COLOR-  
MATCH INSTRUMENTS  
24000 CONTROL SYSTEMS  
24050 CRUSHERS (Can, Drum, Etc.)  
24100 CURING SYSTEMS  
24150 DISPERSAL BLADES  
24200 DISPERSAL MEDIA  
24250 DISPERSERS  
24300 DISTILLATION EQUIPMENT  
24350 DUST-COLLECTION EQUIPMENT  
24400 FILM APPLICATORS  
24500 FILMS  
24550 FILTER PRESSES  
24600 FILTER/PRESSURE VESSELS  
24650 FILTERING BAGS/STRAINERS  
24700 FILTERING CARTRIDGES  
24750 FLEXIBLE SCREW CONVEYORS  
24800 FORK LIFTS  
24850 GAUGES - PRESSURE  
24900 GLOSSMETERS  
24950 GLUING MACHINES  
25000 GRINDING EQUIPMENT  
25050 GRINDING MEDIA  
25100 HEAT BOILERS - WASTE  
25150 HEAT EXCHANGERS

25200 HEAT-RECOVERY SYSTEMS -  
WASTE  
25250 HEAT-TRANSFER FLUIDS  
25300 HOLDING, MIXING TANKS  
25350 HOLIDAY DETECTORS (also in  
Test/Measurement section)  
25375 HOSES  
25400 HUMIDITY CHAMBERS  
25450 IMPELLERS  
25500 INFRARED-CURING EQUIPMENT  
25550 LEVEL CONTROLS  
25600 LEVEL SENSORS  
25650 LEVEL SENSORS, ULTRASONIC  
25700 LIGHT BOOTH  
25750 LIQUID LEVEL INDICATORS  
25800 MACHINES  
25850 MECHANICAL CONVEYORS  
25900 METERING EQUIPMENT -  
ELECTRONIC  
25950 METERS  
26000 METERS, pH  
26050 MICROPROCESSORS  
**MILLS:**  
26150 Attrition  
26200 Ball  
26225 Basket  
26250 Bead  
26300 Centrifugal Mills  
26350 Colloid  
26400 Horizontal  
26450 Impact  
26500 Jar and Jar Rolling  
26550 Laboratory  
26600 Misc. Mills  
26650 Pebble  
26700 Peg  
26750 Roller  
26800 Sand  
26850 Shot  
26900 Small Media  
26950 Vertical  
**MIXERS:**  
27050 Bottom-Entry  
27100 Change-Can  
27150 Cone Screw  
27200 Counter-Rotating  
27250 Direct-Drive Agitators  
27300 Double-Planetary  
27350 Drum  
27400 Dual-Shaft  
27450 High-Shear Batch  
27500 High-Speed  
27550 High-Speed Dispersers  
27600 High-Speed Rotor Stator  
27650 High-Viscosity  
27700 Homogenizers  
27750 Horizontal Paddle-Type  
27800 IBC  
27850 In-Line Mechanical  
27900 In-Line Motionless  
27950 Jacketed Half Pipe or Dimple  
28000 Jet (Powder Dissolving)  
28050 Kneader Extruder  
28075 Laboratory  
28100 Low-Shear  
28150 Misc. Mixers

28200 Pipe Line  
28250 Reactor  
28300 Rotary Batch  
28350 Rotor Blade  
28400 Side-Entry  
28450 Spiral Blade  
28500 Static  
28550 Top-Entry  
28600 Triple-Shaft  
28650 MIXING EQUIPMENT  
28700 MIXING EQUIPMENT - AIR  
POWERED  
28750 MIXING/DISPERSION BLADES  
OVENS:  
28850 Microwave  
28900 Misc. Ovens  
28950 Thermal  
29000 Vacuum  
29050 OXIDIZERS, CATALYTIC  
29100 OXIDIZERS, THERMAL  
29150 PAINT SHAKERS  
29175 PAINT STRIPPERS  
29200 PALLET CONVEYOR  
29250 PALLET DISPENSERS  
29300 PALLETIZERS  
29350 PARTICLE CHARACTERIZATION  
29400 PASTE MIXERS, HORIZONTAL  
29450 PIGGING SYSTEMS  
29500 PNEUMATIC CONVEYORS  
29550 PORTABLE DISPLAY SYSTEM  
POWDER COATING EQUIPMENT:  
29640 Cleaners/Strippers  
29650 Curing Systems  
29700 Extruders  
29750 Filter Belts  
29800 Fluidized Beds  
29850 Mills  
29900 Misc. Powder Equipment  
29950 PROPORTIONING SYSTEMS  
AND COMPONENTS  
**PUMPS:**  
30050 Air-Operated  
30100 Carboy  
30150 Centrifugal  
30200 Diaphragm  
30250 Drum  
30300 Hand  
30350 High-Pressure  
30400 Metering  
30450 Misc. Pumps  
30500 Positive-Displacement Rotary  
30550 Proportional  
30600 Pulsation Dampeners  
30650 Reciprocating  
30700 Turbine Rotary  
30750 Vacuum  
30800 RAM DISCHARGE  
30850 REACTOR & RECOVERY  
SYSTEMS  
30900 REDUCTION EQUIPMENT  
30950 REFLECTOMETERS  
31000 REGISTERS - ELECTRONIC &  
MECHANICAL  
31025 ROBOTS  
31050 ROLLS - SETS  
31075 SAFETY EQUIPMENT

31100 SCREENING  
31150 SEPARATORS  
31200 SEPARATORS - MAGNETIC  
31250 SHAKERS  
31300 SIEVING EQUIPMENT  
31350 SIZE REDUCERS  
31400 SOLVENT-RECOVERY  
EQUIPMENT (also in  
Environmental section)  
31450 SPECIAL DESIGN MACHINERY  
31500 SPRAY BOOTH  
31550 SPRAYING EQUIPMENT  
31575 STATIC CONTROL  
31600 STRAINING EQUIPMENT  
31650 TEMPERATURE  
COMPENSATORS  
31700 TEMPERATURE  
EQUIPMENT/CONTROLS  
31725 THICKNESS GAUGES (also in  
Test section)  
31750 TUBULAR CONVEYORS  
31800 TURN-KEY PROCESSES  
31875 USED EQUIPMENT  
(Buying/Selling)  
31900 UV-CURE SYSTEMS  
31950 UV LAMPS  
32000 VALVES  
32050 VISCOMETERS  
32100 WASTE COMBUSTION  
EQUIPMENT

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### III. TEST/MEASUREMENT INSTRUMENTATION AND SERVICES

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32200 ACCELERATED WEATHERING  
32250 ADSORPTION EQUIPMENT  
32300 AIR MAKEUP/EXHAUST  
32350 AIR POLLUTION/EFFLUENT  
CONTROL  
32400 AIR QUALITY MONITORING  
EQUIPMENT  
32450 AIR SAMPLING AND ANALYSIS  
EQUIPMENT  
ANALYZERS:  
32550 Biochemical Oxygen Demand  
(BOD)  
32600 Chemical Oxygen Demand  
(COD)  
32650 Elemental (CHN)  
32700 Film Formation  
32750 Headspace  
32800 Kjeldahl Nitrogen  
32850 Misc. Analyzers  
32900 Moisture  
32950 Particle  
33000 Stability  
33050 Suspended Solids  
33100 Total Nitrogen  
33150 Total Organic Carbon (TOC)  
BALANCES:  
33250 Analytical  
33300 Misc. Balances/Scales  
33350 Moisture  
33400 Top-Loading

33450 BATHS, CONSTANT  
TEMPERATURE  
33500 BUILDING/CLEAN ROOMS  
33550 CALORIMETERS, DIFFERENTIAL  
SCANNING  
CENTRIFUGES:  
33650 Misc. Centrifuges  
33700 Table Top  
CHROMATOGRAPHY, GC:  
33800 GC/MS Systems  
33850 Pyrolysis  
33900 CHROMATOGRAPHY, GEL  
PERMEATION  
33950 CHROMATOGRAPHY, LC  
34000 CLEANING EQUIPMENT  
34050 CLEANING SUPPLIES,  
LABORATORY  
34100 COATING APPLICATION  
34150 COLOR CARDS  
34200 COLOR CONTROL SYSTEMS  
34250 COLOR MATCHING/MEASURING  
CONSULTING:  
34350 Analytical Services  
34400 Misc. Consulting  
34450 Technical Consulting  
CONTRACT SERVICES:  
34550 AFM Surface Analysis  
34600 Independent Test Labs  
34650 Misc. Other Contract Services  
34700 Solvent Reclamation  
34750 DENSITY CUPS  
34800 DESICCATORS  
34850 DIFFERENTIAL SCANNING  
CALORIMETRY (DSC)  
34900 DIFFERENTIAL THERMAL  
ANALYSIS (DTA)  
34950 DRYING TIME RECORDERS  
35000 DUST COLLECTORS  
35050 DYNAMIC MECHANICAL  
ANALYSIS (DMA)  
ELECTRODES:  
35150 Glassy Carbon  
35200 Graphite  
35250 Ion-Selective  
35300 Karl Fischer  
35350 Misc. Electrodes  
35400 pH  
35450 ENVIRONMENTAL CONTROLS  
35500 ENVIRONMENTAL TEST  
EQUIPMENT  
35550 EXPLOSION PROTECTION  
SYSTEMS  
35600 EXPOSURE TESTING  
35650 FILM APPLICATORS  
35800 FILTERS  
35850 FLAME HOODS  
35900 FLAMMABILITY TESTING  
INSTRUMENTS  
36000 FLOW METERS  
36050 FUNNELS  
FURNACES:  
36150 Misc. Furnaces  
36200 Muffle  
36250 Vacuum

36300 FURNITURE, LABORATORY,  
BENCHES, TABLES, AND  
DESKS  
GAUGES:  
36400 Fineness of Grind  
36450 Grind  
36500 Misc. Gauges  
36550 Pressure  
36650 GENERAL LABORATORY  
EQUIPMENT  
36700 GLOVE BOXES  
36750 HAZARDOUS MATERIALS  
HANDLING EQUIPMENT  
36800 HIGH-SPEED MIXERS  
36850 HOLIDAY DETECTORS  
36900 HOODS, FUME  
36950 HOT PLATES  
37000 HUMIDITY/CONDENSATION  
CHAMBERS  
37050 ICP  
37100 IMAGE ANALYZERS  
37200 LAB CARTS  
LABWARE:  
37300 Glass  
37350 Misc. Other Labware  
37400 Plastic  
37450 LIGHT BOOTHS  
37500 MECHANICAL TESTING  
EQUIPMENT  
METERS:  
37600 Conductivity  
37650 Contact Angle  
37750 Micro Wave Scan  
37800 Misc. Meters  
37850 Moisture  
37900 pH  
37950 Wave Scan  
38000 Wood Moisture  
MICROSCOPES:  
38100 Atomic Force  
38150 Infrared  
38200 Misc. Microscopes  
38250 Optical  
38300 Polarizing  
38350 MICROWAVE DIGESTERS  
38400 MIXERS/MILLS/GRINDERS  
38450 MOLECULAR WEIGHT  
DETERMINATION  
38500 ODOR-CONTROL EQUIPMENT  
38550 OUTDOOR-EXPOSURE TEST  
EQUIPMENT  
OVENS-LABORATORY:  
38650 Microwave Ovens  
38700 Misc. Ovens  
38750 Thermal  
38800 Vacuum  
38850 PAINT OVERSPRAY  
RECOVERY/RECYCLING  
38900 PARTICLE MEASUREMENT  
38950 PARTICLE SIZE  
CHARACTERIZATION  
39000 PH METERS  
39050 PSYCHROMETERS  
PUMPS:  
39150 Misc. Pumps  
39200 Vacuum

**39225 REAGENTS****39250 RESPIRATORS, CHEMICAL  
CARTRIDGE/FILTER/  
DISPOSABLE****39300 RHEOMETERS, LIQUID****39350 RHEOMETERS, POWDER  
SAFETY EQUIPMENT:**

39435 Anti-Fatigue Floor Mats  
 39450 Cans  
 39500 Eyeglasses and Goggles  
 39550 Eyewash Fountains  
 39600 Flammable Materials, Storage  
 Cabinets

39650 Gloves  
 39700 Misc. Safety Equipment  
 39750 Protective Clothing  
 39800 Spill Cleanup

**39850 SAFETY/HEALTH SERVICES****39900 SAMPLE PREPARATION****39950 SEM****40000 SHAKERS, PAINT****40050 SIFTERS****40100 SLUDGE TREATMENT****40150 SLUDGE-HANDLING  
EQUIPMENT****40200 SOFTWARE, LABORATORY  
INFORMATION MANAGEMENT  
SYSTEMS (LIMS)****40250 SOLIDS ANALYZERS****40300 SOLVENT-RECOVERY  
EQUIPMENT****40350 SPATULA, SS****40400 SPECIFIC GRAVITY CUPS  
(PYKNOMETER)  
SPECTROMETERS:**

40500 AA  
 40550 GC/MS  
 40600 ICP  
 40650 IR, FT-IR  
 40700 Mass  
 40750 Misc. Spectrometers  
 40800 Raman  
 40850 UV-VIS  
 40900 X-Ray

**SPECTROPHOTOMETERS:**

41000 Color-Measuring  
 41050 Fluorescence  
 41100 Infrared  
 41150 Misc. Spectrophotometers  
 41200 Ultraviolet

**41250 STIRRERS****SURFACE ANALYSIS:**

41350 Atomic Force Microscopy  
 41400 Auger Spectroscopy  
 41450 Electron Microprobe  
 41500 ESCA  
 41550 Ion-Scattering Spectrometry  
 41600 Misc. Surface Analysis  
 41650 Scanning Tunneling Microscopy  
 41700 Sims  
 41750 Surface Area

**41800 TEMPERATURE  
INSTRUMENTATION****41850 TENSOMETERS****41900 TEST CHARTS****TESTING INSTRUMENTS:**

42000 Abrasion  
 42050 Adhesion  
 42100 Chromatographic Support  
 42150 Chromatographs  
 42200 Coefficient of Friction  
 42250 Contact Angle  
 42300 Cross Hatch Cutter  
 42350 Densitometers  
 42400 Distinctness of Image Meters  
 42450 Flashpoint  
 42500 Glossmeters (also in  
 Manufacturing Equipment)  
 42550 Hardness  
 42600 Hazemeters  
 42650 Holiday Detectors  
 42700 Hygrometers  
 42750 Impact Testers  
 42800 Mandrel Bend  
 42850 Microbial/Bacteria/Fungi  
 42900 Misc. Testing Instruments  
 42950 Particle-Size Analyzers  
 43000 Pencil Hardness  
 43050 Permeability Cups  
 43100 pH Meters  
 43150 Pinhole Detector  
 43200 Reflectometers  
 43250 Refractometers  
 43300 Specific Gravity  
 43350 Surface-Tension  
 43400 Taber Abrasion  
 43450 Tensile Strength and Elongation  
 43500 Viscosity  
 43550 Wet Abrasion  
**43600 THERMOMETERS**  
**43650 TESTING PANELS**  
**43675 THICKNESS GAUGES (also in  
 Manufacturing Equip. section)**

**43700 TITRATORS****43750 ULTRASONIC CLEANERS****43775 UV-CURING SYSTEMS****43800 UV MEASUREMENT****43850 VISCOMETERS****43900 WATERBATH****43950 WASTE COMBUSTION  
EQUIPMENT****WASTE DISPOSAL:**

44050 Misc. Waste Disposal  
 44100 Recycling  
**44150 WASTEWATER TREATMENT**  
**44200 WEATHERING CHAMBERS**  
**44250 WEIGHING DISHES**  
**44300 WEIGHT PER GALLON CUPS**  
**44350 WOOD TONGUE DEPRESSORS**  
**44400 X-RAY DIFFRACTION SYSTEMS**

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**IV. ENVIRONMENTAL  
EQUIPMENT AND SERVICES**

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**44500 ADSORPTION EQUIPMENT****44550 AIR MAKEUP/EXHAUST****44600 AIR POLLUTION/EFFLUENT  
CONTROL****44650 AIR SCRUBBERS****44700 BUILDING/CLEAN ROOMS****44750 CONSULTING****CONTRACT SERVICES:**

44850 Hazardous Waste Cleanup  
 44900 Inspection  
 44950 Monitoring  
 45000 Permit Assistance  
 45050 Solvent Reclamation  
 45100 Waste Testing

**45150 DUST COLLECTORS****45200 ENGINEERING****45250 ENVIRONMENTAL CONTROLS****45300 ENVIRONMENTAL TEST  
EQUIPMENT****45350 EXPLOSION PROTECTION  
SYSTEMS****45400 EXPLOSION RELIEF VENTING****45450 EXPOSURE TESTING****45500 HAZARDOUS MATERIALS  
HANDLING EQUIPMENT****45525 HAZARDOUS MATERIALS  
TESTING****45550 INDUSTRIAL VACUUM  
CLEANERS****45600 ODOR-CONTROL EQUIPMENT****45650 PAINT OVERSPRAY  
RECOVERY/RECYCLING****45700 SAFETY/HEALTH SERVICES****45750 SLUDGE-HANDLING  
EQUIPMENT****45800 SLUDGE TREATMENT****45850 SOLVENT-RECOVERY  
EQUIPMENT (also in  
Manufacturing Equipment)****45900 VENTILATION  
WASTE DISPOSAL:**

46000 Recycled  
**46050 WASTEWATER TREATMENT**

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**V. COMPUTER SOFTWARE**

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**46150 COLOR MEASURING****46200 FORMULATION****46250 INTERNET COMPANIES****46300 LAB ANALYSIS****46350 MISC.****46450 ONLINE INFORMATION  
SERVICES****46500 ONLINE MARKETING SERVICES****46550 PRODUCTION****46570 REGULATORY COMPLIANCE****46580 SDS-SAFETY DATA SHEETS**

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**VI. PACKAGING AND  
MATERIAL HANDLING**

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**46645 BARCODE  
SCANNERS/PRINTERS****46650 CAN CLIPS****46700 CAN/LABEL ORIENTORS****46750 CAN & PAIL CLOSERS  
CONTAINERS/CANS:**

46850 Aerosol Packaging  
 46900 Aluminum/Shipping  
 46950 Bags, Bulk  
 47000 Bags, Multiwall

47050 Bags, Polypropylene  
47075 Cartridges  
47100 Composite (Fiber)  
47150 Corrugated  
47200 Disposable, Paperboard  
47250 Intermediate Bulk  
47300 Metal  
47350 Misc. Containers/Cans  
47400 Plastic  
47450 Reconditioned and Repaired  
47475 Recyclable  
47500 Stainless Steel  
47550 Steel  
47600 Steel Shipping  
**47650 DEPALLETIZERS**  
**DISPENSING:**  
47750 Colorant  
47800 Computerized  
47825 Equipment  
47850 Nozzles  
47875 Pneumatic  
**DRUMS:**  
47950 Fiber  
48000 Interior Linings  
48050 Misc. Drums  
48100 Plastic  
48150 Reconditioned  
48200 Removable Liners

48250 Steel  
**48300 DRUM CONVEYOR**  
**48350 DRUM-HANDLING EQUIPMENT**  
**48400 DRUM POURING EQUIPMENT**  
**FILLING EQUIPMENT:**  
48500 Feeders  
48550 Fillers  
48600 Lid-Closing Machines  
48650 Lid Openers  
48700 Lid Punch Closures  
48750 Lid Punch - 5-Gallon Containers  
48800 Misc. Filling Equipment  
**48850 HAZARDOUS MATERIAL**  
**CONTAINERS**  
**48950 LABEL MACHINES**  
**49000 LABEL PRINTING**  
**49050 LABELS**  
**49150 PACKAGE SERVICES - CUSTOM**  
**49200 PACKAGING DENESTERS**  
**49250 PAIL CONVEYORS**  
**49275 ROBOTS**  
**49300 SEALING EQUIPMENT**  
**49350 SHRINK WRAP**  
**TANKS:**  
49450 Cleaning Equipment  
49500 Cleaning Services  
49550 Fiberglass  
49600 Metal

49650 Misc. Tanks  
49700 Plastic  
49750 Polyurethane  
49800 Portable  
49850 Process  
49900 Shipping  
49950 Storage  
50000 Thinning/Tinting  
50050 Tote

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## VII. CONSULTING AND SERVICES

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### CONSULTING:

50200 Analytical Services  
50250 Business  
50300 Job Search  
50350 Process Engineering  
50400 Product Development  
50450 Technical  
**50500 PRINTING SERVICES**  
**50525 REGULATORY COMPLIANCE**  
**50550 TESTING SERVICES/**  
**LABORATORIES**  
**50600 TOLL MANUFACTURING**  
**50650 TOUCH-UP PAINT**