

Monsanto

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TOWOLDMON0041243
WATER_PCB-00025712

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existing product research

. . . insures Monsanto customers that the products they buy will be made by the most efficient process that research can devise, thus making available chemical materials at the most reasonable possible price. It also assures customers that the products will be delivered at maximum purity, in the most useful physical forms, and packaged in the most practical, convenient-to-use manner.

application research

. . . insures Monsanto customers that research effort is available in working out problems of application. This service is part of Monsanto's sales service. Technically trained representatives work with processors and manufacturers in their plants, conducting trials, evaluating effects, making modifications in conditions or compositions of material until the application of a Monsanto product is completely ready to run on a steady, mass production basis. In addition, research teams are constantly "trying" new chemicals and plastics in new applications that may prove profitable to specific industries. When such new applications are discovered in paper, textile, baking, rubber, petroleum, plastics molding, and dozens of other fields, the developments are presented to Monsanto customers in the industry. This liaison with continuous application research is an important extra advantage in purchasing chemicals and plastics from Monsanto.

exploratory research

. . . continuously prepares and evaluates new organic, inorganic, and polymer-type compounds . . . seeking new chemicals and plastics that will do a better job in the many fields Monsanto products serve. Organic research is constantly exploring new organic compounds that will make improved selective herbi-

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cides, better plasticizers, more efficient oil additives, more easily converted organic intermediates, and many others. Plastics research investigates new molecular structures of polymers and co-polymers, searching for better molding, extruding, coating compositions. Inorganic research studies new leavening agents; new detergent compounds, wetting agents; new chemicals for deflocculating; for plant feeding. Through this continuous exploring and screening of new chemical and resin compounds, Monsanto creates new products for industry.

technical service

. . . assistance to customers is an integral part of Monsanto's sales service. When a Monsanto product has application in a customer's process or product, the purchaser is aided by Monsanto in its application. This technical service ranges from aiding plastics molders in selection of materials and in their start-up of running a new plastic part to devising a new chemical intermediate for the large scale manufacture of a new chemical compound.

Monsanto's Rubber Service Department is a complete facility for working out chemicals and processing aids needed by rubber and rubber products makers.

Monsanto's Baking Laboratories provide technical service on problems of leavening in prepared cake, biscuit, pancake, muffin mixes and for leavening and fortifying self-rising flours.

Monsanto's Wood Adhesives Laboratories provide guidance in the selection and formulation of adhesives for plywood, veneering, assembly gluing, as well as service in the use of bonding agents for shaped plywood, molding granulated wood, and bonding hardboard.

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Monsanto's Engine Testing Laboratory provides the oil industry with service facilities for evaluation and formulation of detergent oil additives, viscosity index improvers, corrosion inhibitors, and pour point depressants.

Textile Service Laboratories provide guidance in the use of Monsanto's textile resins in the applications to cotton texturing, imparting crush resistance and firmer hand to synthetic fabrics, in the use in controlling shrinkage of wool.

The Agricultural Chemicals Laboratories offer guidance in the handling and formulating of insecticidal and herbicidal chemicals.

The foregoing are only partial listings of the technical service facilities. In every major industrial field in which Monsanto products serve, customers have available technical service in their use. This service is available through the Monsanto representative. Companies who are not yet customers and who may not be contacted regularly by Monsanto representatives can be directed to the proper facilities within Monsanto by writing to Monsanto Chemical Company, Industrial Service Department, St. Louis 4, Missouri.

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"A-32"* Rubber Accelerator
"A-100" Rubber Accelerator
"ACL"* Chlorine-bearing Chemical Compositions
"Actamer"* Bacteriostat for Soap and Cosmetics
"AE-1"* High Molecular Weight Alcohol
"Alkophos"* Aluminum Acid Phosphates
"Areskap"* Sodium Butyl-o-Phenylphenolsulfonate
"Aresket"* Sodium Butylbiphenylsulfonate
"Aresklene"* Disodium Dibutyl-o-Phenylphenoldisulfonate
"Aroclor"* Polychlorinated Polyphenyls
"Bear" Lampblack
"Benthal"* Alkyd Resin Intermediate
"Block M"* Almost all products sold
"Blue Spruce Rez" Color-Toned Penetrating Wood Sealer
"Bogey"* Insecticide
"Butasan"* Rubber Accelerator
"Cedar Rez" Color-Toned Penetrating Wood Sealer
"Charcoal Rez" Color-Toned Penetrating Wood Sealer
"C-I-A"* Lubricating Oils
"Clay Rez" Color-Toned Penetrating Wood Sealer
"Closet Clinic" Scale Model Display Closets
"Colay" A Binder for Asphaltic Concrete Paving Materials
"Coumarin Monsanto"
"D41 Primer" Asphalt Base Primer for use prior to Vapor Sealing, Dampproofing, and Waterproofing with Construction Asphalts
"D-80" Joint Compound
"D-Lect"* Herbicide
"D. P. Solution"* Lacquer Additive
"Desert Sage Rez" Color-Toned Penetrating Wood Sealer
"Driftwood Rez" Color-Toned Penetrating Wood Sealer
"Drilcon"* Oil Well Drilling Mud Adjuvants
"E-120" Asphalt Base Coating
"El-Sixty"* Rubber Accelerator
"Elastopar" Chemical Compounds for Addition to Synthetic Elastomers
"Ethasan"* Rubber Accelerator
"Ethavan"* Flavoring and Aromatic
"Ethyl Thiurad" Rubber Accelerator
"Fibestos"* Cellulose-Acetate Sheets
"Fir Green Rez" Color-Toned Penetrating Wood Sealer
"Flamingo Rez" Color-Toned Penetrating Wood Sealer
"Flectol"* H Rubber Antioxidant
"Flippants" Effervescent Lozenge Used to Allay a Craving for Tobacco
"Foliator"* Aspirating Devices
"Folium"* Water-Soluble Plant Food
"Guantal"* Rubber Accelerator
"HB-40"* Partially Hydrogenated Terphenyl
"HB-20"* Hydrocarbon Plasticizer
"Humpal"* Pallets
"Insoluble Sulfur 60"
"Jax"* Plant Food
"K Kote" Weather Proof Insulating Coating Containing a High Content of Ground Cork
"Krilium"* Soil Conditioner
"Laux Rez"* Prime Coat for Wood, Cement, Plaster or Brick
"Lauxein"* Casein and Soybean Adhesives
"Lauxite"* Urea, Phenolic, Melamine & Resorcinol Resins
"Lion" Aluminum Paint Vehicle
"Lion" Anti-freeze
"Lion" Asphalt Base Coating Composition
"Lion" Dry Ice
"Lion" Gear Lubricant
"Lion" Ink Asphalt
"Lion" Lap Cement
"Lion"* Lubricating Oils
"Lion" Membrane Asphalt
"Lion" Nailing Cement
"Lion" Paving Asphalt
"Lion" Plastic Cement
"Lion" Roofing Asphalt
"Lion D-80" Joint Compound for Filling Paving Joints
"Lion" & Design Motor Fuel Oils, Lubricating Oils, and Greases
"Lion" & Design of a Lion on a Pedestal Anti-freeze
"Lion" & Design of a Lion on a Pedestal* Fertilizers
"Lion" displayed against a solid circle* Lubricating Oils
"Lionite"* Motor Fuel Additive
"Lion Naturalube"* Lubricating Oils
"Lion Nökörde" Used to Identify a Wide Variety of Moisture Vapor Barriers, Underbody Coatings, Rust Preventives and Industrial Mastics
"Lion Petroleum Products" & Design of a Lion on a Pedestal* Motor Fuel Oils
"Loamaker"* Soil Conditioner
"Low Temp" Bedding and Joint Compound for Low Temperature Insulation
"Lustrex"* Styrene Coating Resins
"Lustrex"* Styrene Molding Materials
"Lustron"* Artificial Resins
"Lytron"* Sand Conditioner
"Mahogany Rez" Color-Toned Penetrating Wood Sealer
"Medo-Green"* Silage Grade Sodium Metabisulfite
"Merloam"* Soil Conditioner
"Merlon"* KR, Sand BR, Textile Processing and Finishing Agent
"Mersize"* CD-2 Paper Sizing Agent
"Mersize"* RM Paper Sizing Agent
"Mertax" Rubber Accelerator
"Mertone"* WB-2 and WB-4 Precoat for Reproduction Paper
"Meta-Green" Silage Grade Sodium Metabisulfite
"Methasan"* Rubber Accelerator
"M H A"* Methionine Hydroxy Analogue Calcium
"Mono Thiurad"* Rubber Accelerator
"Monsanto"* Almost All Products Sold
"Monsanto Detergent MXP"
"Monsanto Fire Retardant A"
"Monsanto Penta" Pentachlorophenol, Technical
"Monsanto Polyethylene" Polyethylene Extruding, Calendering, and Laminating Materials
"Montar"* Synthetic Resins
"Naturalube"* Lubricating Oils
"Niran"* Insecticide
"Nitron"* Cellulose-Nitrate Sheets
"Noclamp"* Glue
"Noshock"* Chemical Coating Agent for Treating Rugs, Textiles, and other Fibrous Materials
"Nutrium"* Fertilizer
"Oilfos"* Glassy Sodium Phosphate
"Opalon"* Vinyl Chloride Coating Resin
"Opalon"* Vinyl Chloride and Vinyl Chloride Copolymer for Extruding, Calendering & Injection Material
"Opalon"* Vinyl Chloride Molding Material
"OS-45"* Functional Fluids
"Paramount"* Glue
"PC-1244" Foam Suppressants
"Phos-Pho-Tex"* Water Softener
"Plastics Merchandiser"* Periodical Publication
"Prairie Green Rez" Color-Toned Penetrating Wood Sealer

(Continued on next page)

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"Pydraul"* F-9 Industrial Hydraulic Fluid and Synthetic Lubricant
"Pydraulic"* F-9 Industrial Hydraulic Fluid and Synthetic Lubricant
"Pyran"* Anhydrous Monocalcium Phosphate
"R-2" Rubber Accelerator
"Randox"* Selective Herbicide
"Redwood Rez" Color-Toned Penetrating Wood Sealer
"Resimene"* Melamine Laminating Resins
"Resimene"* Melamine Molding Compound
"Resimene"* Melamine and Urea Coating Resins
"Resinox"* Phenolic Bonding, Impregnating & Coating Resins
"Resinox"* Phenolic Laminating Resins
"Resinox"* Phenolic Molding Material
"Resloom"* HP and M-75 Essentially Monomeric Melamine Textile Resins
"Rez" Wood Sealer and Primer (Clear)
"Rezgard"* Fire Retardant for Textiles
"Rhyme" Detergent for General Washing and Cleaning Purposes
"RZ-50"* A Rubber Accelerator
"RZ-50"* B Rubber Accelerator
"SA-326" ortho-Biphenyl Biguanide
"Saccharin Monsanto"* Saccharin
"Saflex"* Vinyl Butyral Laminating Plastic for Safety Glass
"Sandalwood Rez" Color-Toned Penetrating Wood Sealer
"Santicizer"* 1-H Plasticizer
"Santicizer"* 3 Plasticizer
"Santicizer"* 8 Plasticizer
"Santicizer"* 9 Plasticizer
"Santicizer"* B-16 Plasticizer
"Santicizer"* E 15 Plasticizer
"Santicizer"* M-17 Plasticizer
"Santicizer"* 140 Plasticizer
"Santicizer"* 141 Plasticizer
"Santicizer"* 160 Plasticizer
"Santicizer"* 601 Plasticizer
"Santicizer"* 602 Plasticizer
"Santicizer"* 603 Plasticizer
"Santobane"* DDT Insecticide
"Santobrite"* Sodium Pentachlorophenate, Technical
"Santocel"* Silica Aerogel for Industrial Applications
"Santocel"* Silica Aerogel for Thermal Insulation
"Santochlor"* para-Dichlorobenzene Insecticide
"Santocure"* Rubber Accelerator
"Santocure"* NS Rubber Accelerator
"Santoflex"* AW Rubber Antioxidant
"Santoflex"* B Rubber Antioxidant
"Santoflex"* BX Rubber Antioxidant
"Santoflex"* 35 Rubber Antioxidant
"Santoglue"* Adhesive Cement
"Santolene"* C Petroleum Additive Rust Inhibitor
"Santolene"* F Fuel Oil Additive
"Santolite"* MHP Industrial Resin
"Santolite"* MS (80%) Industrial Resin
"Santolube"* 31 Oil Additive
"Santolube"* 70 Oil Additive
"Santolube"* 382 Oil Additive
"Santolube"* 388 Oil Additive
"Santolube"* 394-C Oil Additive
"Santolube"* 395-X Oil Additive
"Santomask"* H Odor-Masking Agent
"Santomerse"* Alkyl Aryl Sulfonates
"Santopar" Chemical Compounds for Addition to Synthetic Elastomers
"Santophen"* I Germicide
"Santophen"* I Solution
"Santopoid"* 32 Oil Additive
"Santopoid"* 33 Oil Additive
"Santopoid"* 34 Oil Additive
"Santopoid"* S Oil Additive
"Santopour"* Oil Additive
"Santopour"* B Oil Additive
"Santoquin"* 6-Ethoxy-1,2-dihydro-2,2,4-Trimethyl Quinoline, Livestock Feed Preservative
"Santosol"* Resinous Plastic Solutions
"Santoseal"* Adhesive Cements
"Santosite"* Sodium Sulfite Anhydrous, Technical
"Santotan"* KR Basic Chrome Sulfate
"Santovar"* A, Rubber Antioxidant
"Santovis"* Chemical Adjuvants for use in Petroleum Products
"Santowhite"* Crystals Rubber Antioxidant
"Santowhite"* L Rubber Antioxidant
"Santowhite"* MK Rubber Antioxidant
"Santowhite"* Powder Rubber Antioxidant
"Satinwood Rez" Clear Self-Leveling Interior Finish
"Scriptite"* 33 Melamine Formaldehyde Paper Resin
"Scriptite"* Series 50-59 Styrene Copolymers for Paper
"Seal Kote" Weatherproofing Moisture Vapor Barrier Available in Four Grades
"Seal Perm" Breathing Type Weather Proof Moisture Vapor Barrier
"Seal Prime" Asphalt Base Primer for Porous Surfaces Prior to Application of Moisture Vapor Barriers
"Skydro"* Aircraft Hydraulic Fluid
"Skydrol"* Aircraft Hydraulic Fluid
"Skytrol"* Aircraft Hydraulic Fluid
"Sopanox"* ortho-Tolyl Biguanide
"Sted"* Detergents
"Sted-ette" Detergents
"Sterox"* No. 5 Polyoxyethylene Thioether
"Sterox"* No. 6 Polyoxyethylene Thioether
"Sterox"* AJ Polyoxyethylene Ether
"Sterox"* AJ-100 Polyoxyethylene Ether
"Sterox"* CD Polyoxyethylene Ester
"Sterox"* SE Polyoxyethylene Thioether
"Sterox"* SK Polyoxyethylene Thioether
"Stymer"* LF, R and S Textile Sizing Agents
"Sulfasan"* R 4,4'-Dithiodimorpholine
"Syndraul"* Functional Fluid
"Syndrol"* Functional Fluid
"Syton"* C-15 and C-30 Silica Sols
"Syton"* W-20 and DS Silica Sols
"Tenet" Detergents
"Tepid" Detergents
"Thiofide"* Rubber Accelerator
"Thiofide"* S Rubber Accelerator
"Thiotax" Rubber Accelerator
"Thiurad"* Rubber Accelerator
"Thridol" Herbicides
"Ultron"* Vinyl Chloride Film and Sheets
"Vanillin Monsanto"
"Vegadex" Herbicides
"Vuepak"* Cellulose Acetate Rigid Film
"Vyram"* Synthetic Resins
"Wheat-Tone Rez" Color-Toned Penetrating Wood Sealer
"Where Creative Chemistry Works Wonders for You" For a Variety of Products
"White Rez" Penetrating Wood Sealer

*Trademarks which are registered in the United States Patent Office are marked with an asterisk.

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medium strength. It is easily emulsified for use in latex and has no effect on latex stability.
Containers: 475-lb. steel drums.

Shipping Classification: Chemicals NOIBN.

Literature: "Monsanto Chemicals for the Rubber Industry," 46-page booklet.

"SANTOWHITE" MK *(Reaction product of 6-tert-butyl-m-cresol and SCl_2)*—ORGANIC DIVISION *(Rubber Service)*

Standard Form: Liquid.

Specifications: Dark viscous liquid; ash 0.5% max.; heat loss 5.0% max.; Sp. Gr. 1.06, soluble in acetone, alcohol, benzene and carbon tetrachloride; insolubles (SiO_2) solve C) 5% max.; softening point 20-35° C.

Uses: The action of "Santowhite" MK is the same as "Santowhite" Crystals, but the degree of protection against aging is not as high. It is excellent from the standpoints of staining and discoloration. Use 1% to 2% on the hydrocarbon. Gives good protection to uncured GRS latex compounds.

Containers: 150-lb. steel drums.

Shipping Classification: Chemicals NOIBN.

Literature: "Monsanto Chemicals for the Rubber Industry," 46-page booklet.

"SANTOWHITE" POWDER *[4,4'-butylidene-bis (6-tert-butyl-m-cresol)]*—ORGANIC DIVISION *(Rubber Service)*

Standard Form: Powder.

Specifications: White powder, ash 0.3% max.; trace max. on 100 mesh; M.P. 209°C. min.; moisture 0.5% max.; Sp. Gr. 1.02.

Uses: "Santowhite" Powder is a full strength antioxidant. It is unexcelled from the standpoints of staining and discoloration. Performs well in latex and dry rubbers. Use 1% to 2% on the hydrocarbon.

Containers: 125-lb. fiber drums.

Shipping Classification: Chemicals NOIBN.

Literature: "Monsanto Chemicals for the Rubber Industry," 46-page booklet.

AQUA AMMONIA—INORGANIC DIVISION

Molecular Weight: 35.05.

Formula: NH_4OH.

Standard Form: Liquid.

General Information—Properties: Pungent, water-white liquid; wt. per gal. 7.48 lbs. (26° Be').

Uses: A source of Nitrogen for plants, either applied directly to the soil or to irrigation water for the formulation of mixed fertilizers, for oxidation in lead chamber sulphuric acid plants, and to supply nitrogen requirements and pH control in yeast cultures.

Containers: Tank cars, barges and boats.

Shipping Classification: Ammoniacal Liquor (containing not more than 35 per cent Ammonia (NH_3) by weight.)

"ARESKAP" SODIUM BUTYL-ortho-PHENYLPHENOLSULFONATE—INORGANIC DIVISION

Standard Form: Liquid or dry powder.

Uses: Wetting, penetrating and spreading agent; spreading agent in insecticidal compositions, embalming fluids, metal pickling.

Containers: "Areskap"-50 (liquid)—250-lb. wooden bbls. Dry "Areskap"-100 (powder)—115-lb. drums.

Shipping Classification: Washing Compounds NOIBN.

Literature: "Areskap—Aresket—Aresklene," Technical Bulletin I-113.

"ARESKET" SODIUM BUTYLBIPHENYLSULFONATE—INORGANIC DIVISION

Standard Form: Dry powder.

Uses: Wetting, penetrating and spreading agent.

Containers: Dry "Aresket"-300 (powder)—115-lb. drums.

Shipping Classification: Washing Compounds NOIBN.

Literature: "Areskap—Aresket—Aresklene," Technical Bulletin I-113.

"ARESKLENE" DISODIUM DIBUTYL-ortho-PHENYLPHENOLDISULFONATE—INORGANIC DIVISION

Standard Form: Paste.

Specifications: "Aresklene"—375: light brown paste, slightly aromatic; sulfates, trace; chlorides, trace; not soluble in solvents which are immiscible with water; pH approx. 7.5-8.5 for 1% solution of dry material at 25° C.; soluble (10-90 parts solvent) in alcohol, acetone, dibutyl tartrate, ethylene glycol.

Uses: Wetting, penetrating and spreading agent used in kierboiling; scouring and dyeing textiles; industrial cleaners; *deodorant preparations; insecticidal formulations;* metal cleaning; stabilizer and wetting agent in latex used to treat cord or other fabrics.

Containers: 185-lb. steel drums.

Shipping Classification: Washing Compounds NOIBN.

Literature: "Areskap—Aresket—Aresklene," Technical Bulletin I-113.

"AROCLOR" POLYCHLORINATED POLYPHENYLS—ORGANIC DIVISION

Standard Form: Liquids, resins or solids.

General Information—Properties: *Chlorinated* aromatic hydrocarbons varying from water-white mobile liquids and pale yellow viscous oils to light amber resins and opaque crystalline solids. Refractive indices above 1.6125. In general are stable on long heating at 150°C.; not affected by boiling with sodium hydroxide solution. (The light oils can be distilled at atmospheric pressure without appreciable decomposition and *the viscous oils and resins distill readily* under vacuum.) Viscous oils and resins almost odorless and tasteless at ordinary temperatures.

Most "Aroclor" materials flux readily with resinous and pitch-like materials to give products having a decreased fire hazard. (Viscous oils and resins do not support combustion when *heated alone even at their boiling points*—temperatures above 300°C.) All have excellent electrical characteristics, high dielectric strength and resistivity, low power factor; certain of the liquids have a high dielectric constant as compared with mineral oils. The oils and resins easily soluble

(Continued on next page)

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in most common organic solvents and drying oils; hard crystalline materials are, in general, less soluble; all are insoluble in water. The more viscous oils and resins have excellent adhesive properties. All forms are thermoplastic, apparently undergo no further condensation or hardening upon repeated melting and cooling. Nondrying; when exposed to air no noticeable oxidation or hardening takes place. The clear resins have rather low vaporization losses; at 65.8°C. (150°F.) less than 0.04 gm. per sq. in. of surface per month.

Uses: Liquid "Aroclors" are used as dielectrics for condensers or capacitors and transformers. Solid "Aroclors" are used to impregnate carbon resistors, and when combined with other plastic materials, the "Aroclors" are excellent sealers or impregnating agents for a variety of electrical apparatus, wire coatings and tape. "Aroclors" are used as plasticizers and resins in lacquers including nitrocellulose, ethyl cellulose and cellulose acetate butyrate; to extend varnish resins and oils and as plasticizer and resin extenders for rubber-base paints, including chlorinated rubber styrene, butadiene and vinyls. In these protective coatings for metal, masonry and wood, "Aroclors" impart adhesion, resistance against moisture, acids, alkalies or other corrosive influence and they improve electrical insulating properties, durability and reduce flammability. They function as sealers in waterproofing compounds, wood preservative formulations, caulking compounds and putty. Employed in asphaltic siding materials and cellulose products impregnated or laminated with asphaltic materials, the "Aroclors" plasticize the asphalt, reduce flammability and improve durability. For printing inks; in precision-casting waxes, floor waxes and other wax products. Used widely in synthetic adhesives including ethyl cellulose, styrene, vinyls and rubber-base materials, "Aroclors" improve adhesion and resistance against corrosive influences. Selected liquid "Aroclors" are used as nonflammable hydraulic fluids for die-casting machines. They are used as actuating media for thermostats. "Aroclors" are useful in cutting oils as extreme pressure lubricants, as high-temperature lubricants and as grinding fluids. "Aroclor" 1248 is employed as a nonflammable, liquid-phase, heat-transfer medium for continuous operation in closed systems at temperatures up to 300°C. and at normal atmospheric pressure.

Containers: 600-lb. steel drums; 500-lb. net fiber drums.

Shipping Classification: Resin Synthetic NOIBN Without Filler.

Literature:

"The Aroclors Physical Properties and Suggested Applications," Technical Bulletin O-P-115.
"Aroclor 1254 Co-Plasticizer with DOP for Vinyl Organosols and Pastes," Technical Bulletin P-134.
"Aroclors as Co-Plasticizers for Polyvinyl Chloride," Technical Bulletin P-131.
"Aroclors as Used in Chlorinated Rubber," Technical Bulletin P-124.
"Aroclors in Formulating High Styrene Copolymer Surface Coatings," Technical Bulletin P-126.
"Aroclors as Used to Extend or Substitute Carnauba Wax," Technical Bulletin P-132.
"An Indirect Aroclor Heater for Unit Chemical Operation," Technical Bulletin P-130.
"Aroclor—a Nonflammable Hydraulic Fluid for Die-Casting Systems," Technical Bulletin P-137.
"Aroclor Incombustible Lubricants Used in High Pressure Compressors," Technical Bulletin P-128.

asphalt products

ACID-PROOF ASPHALT COATING—LION OIL DIVISION

Standard Form: Liquid.

General Information: Used as an inside coating for brass shell castings for protection against corrosion and also for industrial uses where resistance to mild acids is required. Meets joint Army-Navy Specification JAN-P-150, Types I and II.

Containers: 55-gal. drums.

Shipping Classification: Petroleum Asphalt (other than paint, stain or varnish).

ALUMINUM PAINT VEHICLE—LION OIL DIVISION

Standard Form: Liquid.

General Information: After the addition of aluminum pigment, Lion Aluminum Paint Vehicle is applied to obtain a highly weather resistant, tightly adherent protective film. It has been examined by leading pigment manufacturers and approved by them as a quality product for use with their pigments.

Containers: 55-gal. drums; and 5-gal. pails.

Shipping Classification: Petroleum Asphalt (other than paint, stain or varnish).

Literature: Aluminum Paint Vehicle folder.

ASBESTOS ASPHALT ROOF COATING —LION OIL DIVISION

Standard Form: Liquid.

General Information: Asbestos roof coating is a mixture of high-grade petroleum asphalt and petroleum solvent, to which selected asbestos (rock) fiber has been added. The asphalt from which this product is made does not contain coal tar, free carbon, or cracked residues. The material is in liquid form and requires no heating.

Uses: This material is recommended as a heavy duty finish for added protection on smooth-surfaced roll roofing or built-up roofs; for preservative metal roofs, and for renewing old, dry, smooth-surfaced roll roofing. The high asbestos content permits the sealing of small cracks, joints, seams, and nail holes, and increases the fireproofing qualities of the roof. Higher resistance to the drying-out action of the sun assures minimum expense for upkeep. Excellent results are obtained in weatherproofing exposed foundations, concrete surfaces exposed to moisture, and in dampproofing structures both above and below grade.

Containers: 55-gallon drums; 5-gallon pails; 1-gallon pails (6 in case).

Shipping Classification: Roofing cement.

ASPHALT PLASTIC CEMENT—LION OIL DIVISION

(MANUFACTURED UNDER U. S. PATENT No. 2,393,774)

Standard Form: Heavy Liquid.

General Information: This material is carefully compounded from high-grade petroleum asphalt, naphthas, especially treated mineral fillers, and asbestos fibers. It adheres tightly to metal, felt, wood, glass, and concrete surfaces. It also has the property of being able to cover and adhere to wet or dry metal and saturated roof or felt surfaces.

Uses: This material is recommended for repair of breaks, cracks, and holes in all types of roofs, and for sealing and waterproofing around chimneys, skylights, valleys, vent pipes, and base and cap flashings. It also is used for sealing the walls of boiler settings, and for dampproofing interior and exterior walls, both above and below grade, where heavy film thickness is desirable [illegible]

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Products Manufactured by Monsanto Chemicals Limited and Available through Riches-Nelson, Inc., 342 Madison Avenue, New York 17, N. Y.

CHLOR-X-CRESYLIC	Pure Meta CRESOL	PHENOL SULPHONIC ACID
CRESANTOL 3	Ortho CRESOTINIC ACID	SODIUM SULPHATE
CRESANTOL 14	Meta CRESOTINIC ACID	SODIUM SULPHITE
CRESANTOL 15	ETHYL SILICATE, 40% SILICA	TETRAETHYLORTHOSILICATE
CRESANTOL 15 R	PARACHLOROMETACRESOL	VANILLIN (ex Eugenol)
Pure Para CRESOL	PARACHLOROMETAXYLENOL	

products index (Also see Product Group Index page 111)

for your convenience, the supplying division is given after each product.

turn to page 119 for list of divisional sales offices.

Product	Division	Page No.
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"A-32"	Organic	19
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AC TRACK ROLL GREASE	Lion Oil	42
ACCELERATOR B	Organic	19
ACCELERATORS, RUBBER	Organic	19
ACETANILID, U.S.P.	Organic	22
ACETIC ACID	Organic	22
ACETOPHENETIDIN, U.S.P.	Organic	22
ACETYLSALICYLIC ACID, STARCH GRANULATIONS	Organic	22
ACETYLSALICYLIC ACID, U.S.P.	Organic	22
ACID-PROOF ASPHALT COATING	Lion Oil	28
ACID SODIUM PYROPHOSPHATE	Inorganic	74
ACRYLONITRILE	Plastics	21
"ACTAMER"	Organic	23
ADIPIC ACID	Organic	23
ADVANCED-FORMULA NATURALUBE DHD OIL	Lion Oil	49
ADVANCED-FORMULA NATURALUBE HD MOTOR OIL	Lion Oil	49
A. F. GREASE	Lion Oil	42
"ALKOPHOS" (Aluminum Acid Phosphate)	Inorganic	23
ALKYL ACID PHOSPHATES	Inorganic	23
ALKYL ARYL SULFONATES	Inorganic	72
ALKYL BENZENE	Inorganic	23
ALKYL PHOSPHORIC ACIDS	Inorganic	23
ALL-PURPOSE GEAR LUBRICANTS	Lion Oil	42
ALUMINUM ACID PHOSPHATES ("ALKOPHOS")	Inorganic	23
ALUMINUM CHLORIDE SOLUTION 32° Be	Inorganic	24
ALUMINUM PAINT VEHICLE	Lion Oil	28
ALUMINUM SULFATE, COMMERCIAL (DRY, LIQUID)	Inorganic	24
ortho-AMINOANISOLE	Organic	25
para-AMINOANISOLE	Organic	25
meta-AMINOCHLOROBENZENE	Organic	35
ortho-AMINOCHLOROBENZENE	Organic	36
para-AMINOCHLOROBENZENE	Organic	36
2-AMINOETHOXYBENZENE	Organic	55
4-AMINOETHOXYBENZENE	Organic	55
8-AMINO-1-NAPHTHOL-3,6-SODIUM ACID DISULFONATE	Organic	44
ortho-AMINONITROBENZENE	Organic	50
para-AMINOPHENETOLE	Organic	55
ortho-AMINOPHENYLETHYL ETHER	Organic	55
para-AMINOPHENYLETHYL ETHER	Organic	55
AMMONIA, ANHYDROUS	Inorganic	25
AMMONIUM BIPHOSPHATE	Inorganic	25
AMMONIUM DIHYDROGEN PHOSPHATE	Inorganic	25
AMMONIUM ETHYL PHOSPHATE	Inorganic	24
AMMONIUM NITRATE PELLETED FERTILIZER	Inorganic	24
AMMONIUM PHOSPHATE, DI	Inorganic	24
AMMONIUM PHOSPHATE, MONO	Inorganic	25

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Product	Division	Page No.
Ammonium Sulfate	Inorganic	79
Anhydrous Ammonia	Inorganic	25
ortho-Anisidine	Organic	25
para-Anisidine	Organic	25
Antioxidants, Rubber	Organic	25
Approved Government Specification Compounds	Lion Oil	55
Aqua Ammonia	Inorganic	27
"Areskap" Sodium Butyl-ortho-Phenylphenolsulfonate	Inorganic	27
"Aresket" Sodium Butyl Biphenyl-Sulfonate	Inorganic	27
"Aresklene" Disodium Dibutyl-ortho-Phenylphenoldisulfonate	Inorganic	27
"Aroclor" Polychlorinated Polyphenyls	Organic	27
Asbestos Asphalt Roof Coating	Lion Oil	28
Asphalt Plastic Cement	Lion Oil	28
Asphalt Products	Lion Oil	28
Asphalt Roof Coating	Lion Oil	29
Aspirin	Organic	22
B. & R. Grease	Lion Oil	42
4-in-1 Barium Grease	Lion Oil	43
Battery Acid (Electrolyte)	Inorganic	32
Bearing Oil 4344	Lion Oil	42
"Benthal"	Organic	32
Bentone Grease	Lion Oil	42
Benzenesulfonic Acid, Technical	Organic	32
Benzoic Acid, Technical	Organic	32
Benzoic Acid, U.S.P.	Organic	32
Benzyl Benzoate, U.S.P.	Organic	32
Benzyl Chloride, Stabilized	Organic	33
ortho-Benzyl-para-Chlorophenol, Technical	Organic	73
Bicyclohexyl	Organic	33
Biphenyl	Organic	33
1,3 Bis (2-Benzothiazolyl Mercaptomethyl) Urea	Organic	19
Bisphenol A	Organic	33
Blaco	Lion Oil	43
Blind Nailing Cement	Lion Oil	29
Bone Ash	Inorganic	33
Boron Phosphate	Inorganic	34
Brush Cement	Lion Oil	53
Burner Oil	Lion Oil	45
Butane-Propane Mixture	Lion Oil	46
"Buttsan"	Organic	19
N-tert-Butyl-2-Benzothiazolesulfenamide	Organic	1
Butyl Benzyl Phthalate	Organic	8
Butyl Decyl Phthalate	Organic	9
4,4-Butylene-Bis (6-tert-Butyl-m-Cresol)	Organic	7
Butyl Phthalyl Butyl Glycolate	Organic	7
Caffeine	Organic	34
Calcium Dihydrogen Phosphate	Inorganic	34
Calcium Hydrogen Phosphate	Inorganic	34
Calcium Phosphate, Di, (Anhydrous, Dihydrate, Feed Grade)	Inorganic	34
Calcium Phosphate, Mono	Inorganic	34
Calcium Phosphate, Tri	Inorganic	35
Calcium Pyrophosphate	Inorganic	35
Calcium Salt of DL-alpha-Hydroxy-gamma-Methyl-Mercaptobutyric Acid (Methionine Hydroxy Analogue)	Organic	47
Calcium Silicate Slag	Inorganic	55
Caprylic Acid	Organic	55
Carbon Dioxide	Inorganic	35
Car Cement	Lion Oil	54
Castor Machine Oil	Lion Oil	43
Catalysts	Plastics	62
Caustic Potash	Inorganic	35
Chassis Lubricant	Lion Oil	43
Chloramine-T, N. F.	Organic	35
Chlorine-Caustic Soda, Caustic Potash, and Sodium Sulfide Plants	Eng. Sales	35
2-Chloroaminobenzene	Organic	36
3-Chloroaminobenzene	Organic	36
4-Chloroaminobenzene	Organic	36
meta-Chloroaniline	Organic	36
ortho-Chloroaniline	Organic	36
para-Chloroaniline	Organic	36
1-Chloro-2,4-Dinitrobenzene	Organic	40
2-Chloronitrobenzene	Organic	36
4-Chloronitrobenzene	Organic	36
meta-Chloronitrobenzene (para-Nitrochlorobenzene)	Organic	50
ortho-Chloronitrobenzene		

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C

Product	Division	Page No.
(ortho-Nitrochlorobenzene).	Organic	50
para-Chloronitrobenzene (para-Nitrochloropenzene). .	Organic	51
ortho-Chlorophenol, Technical.....	Organic	36
para-Chlorophenol.....	Organic	36
Chlorosulfonic Acid.....	Inorganic	36
alpha-Chlorotoluene.....	Organic	33
Coach Builders Sound Deadener.....	Lion Oil	54
Coach Builders Undercoating.	Lion Oil	54
Code 2 Primer.....	Lion Oil	29
Colay Paving Asphalt.....	Lion Oil	29
Cold Process Lap Cement.....	Lion Oil	29
"Color-Toned Rez" Exterior Penetrating Sealers.....	Organic	36
Construction Asphalts.....	Lion Oil	54
Corkboard Erection Asphalt..	Lion Oil	29
Cotton Picker Spindle Oil...	Lion Oil	43
"Coumarin Monsanto".....	Organic	37
Coumarin, N.F.....	Organic	37
Crate-Top Coating.....	Lion Oil	30
Cresyl Phenyl Phosphates, Mixed.....	Organic	68
Cup Grease.....	Lion Oil	43
Cyclohexylamine.....	Organic	37
N-Cyclohexyl-2-Benzothiazolesulfenamide..	Organic	20
N-Cyclohexyl para-Toluenesulfonamide.....	Organic	66

D

Product	Division	Page No.
D-41 Primer.....	Lion Oil	53
D-80 Joint Compound.....	Lion Oil	30
DDT Monsanto (Dichloro-Diphenyl-Trichloroithane, Tech.).....	Organic	48
Dead Le el Roofing Asphalts.	Lion Oil	30
Defoamer PC-1244.....	Organic	37
Detergent MXP ("Monsanto Detergent MXP").....	Inorganic	48
Diammonium Hydrogen Phosphate.....	Inorganic	24
Dibasic Calcium Orthophosphate.....	Inorganic	34
Dibasic Sodium Phosphate (Anhydrous, Duohydrate)...	Inorganic	76
Dibutyl Phthalate.....	Organic	37
ortho-Dichlorobenzene, Tech..	Organic	37
para-Dichlorobenzene.....	Organic	70
Dichloro-Diphenyl-Trichloroethane (Monsanto DDT).	Organic	48
2,4-Dichlorohydroxybenzene (2,4-Dichlorophenol Tech.).	Organic	38
2,4-Dichlorophenoxyacetic Acid Isopropyl Ester.....	Organic	38
Dicyclohenyl.....	Organic	33
Dicyclohexylamine.....	Organic	38
DIDA.....	Organic	39
DIDP.....	Organic	39
Diesel Fuel.....	Lion Oil	46
Di-2-Ethyl Hexyl Adipate....	Organic	40
Di(2-Ethyl Hexyl) Phthalate.	Organic	38
Diethyl Phthalate.....	Organic	38
1,2-Dihydro-2,2,4-Trimethyl-6-Phenylquinoline.....	Organic	26
1,2-Dihydro-2,2,4-Trimethyl-Quinoline, Polymerized.....	Organic	25
Dihydroxy Diphenyl Sulfone.	Organic	39
Diisodecyl Adipate.....	Organic	39
Diisodecyl Phthalate.....	Organic	39
Diisooctyl Phthalate.....	Organic	39
N,N-Dimethylcyclohexyl-amine Salt of Dibutyldithiocarbamic Acid.....	Organic	20
Dimethyl Phthalate.....	Organic	39
N,N-Dimethyl-N'-2'Pyridyl-N'2-Thenyl Thylenediamine (Methapyrilene Hydrochloride).....	Organic	47
2,4-Dinitrochlorobenzene, Technical.....	Organic	40
Dioctyl Adipate.....	Organic	40
Dioctyl Phthalate.....	Organic	38
DIOP.....	Organic	39
Diphenyl.....	Organic	33
Diphenylguanidine.....	Organic	19
Diphenylguanidine Phthalate.	Organic	20
N,N-Diphenyl-para-Phenylenediamine.....	Organic	26
Diphenyl Phthalate.....	Organic	40
N-N'-Diphenyl Thiourea.....	Organic	21
Disodium Dibutyl-ortho-Phenyl-Phenoldisulfonate..	Inorganic	27
Disodium Dihydrogen Pyrophosphate.....	Inorganic	74
2,4-Di-tert-Amylhydroquinone.	Organic	26
2-2'-Dithiobis (Benzothiazole) (MBTS).....	Organic	21
4,4'-Dithiodimorpholine.....	Organic	78
DOA.....	Organic	40

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Product	Division	Page No.
DOP	Organic	38
DPG	Organic	19
"D.P. Solution"	Inorganic	40
Dry-Kiln Mastic	Lion Oil	30
E		
E-120 Coating	Lion Oil	30
E Kote	Lion Oil	54
"El-Sixty"	Organic	19
Engine Oil	Lion Oil	43
"Ethasan"	Organic	19
"Ethavan"	Organic	40
6-Ethoxy-1,2-Dihydro-2,2,4-Trimethylquinoline	Organic	26
6-Ethoxy-1,2-Dihydro-2,2,4-Trimethylquinoline, Purified	Organic	74
Ethyl Acetate	Organic	40
Ethyl Ammonium Phosphate	Inorganic	24
Ethyl Benzene	Plastics	41
Ethylene Dichloride	Organic	41
Ethyl Phthalyl Ethyl Glycolate	Organic	67
"Ethyl Thiuram"	Organic	19
N-Ethyl para-Toluene Sulfonamide	Organic	66
Ethyl Vanillin	Organic	40
f		
Ferric Orthophosphate	Inorganic	41
Ferrophosphorus (Iron Phosphide)	Inorganic	41
Fire Retardant A ("Monsanto Fire Retardant A")	Inorganic	48
"Flectol" H	Organic	25
Flux-Oils	Lion Oil	30
Formaldehyde	Inorganic	41
Fumaric Acid	Organic	41
g		
9G54A	Lion Oil	54
Gasolines	Lion Oil	42
Gasoline Pump Grease	Lion Oil	43
Gear and Tractor Roller Lubricant	Lion Oil	43
Gear Lubricant No. 360	Lion Oil	43
Government Rust Preventatives	Lion Oil	55
"Guantal"	Organic	20
h		
H-Acid	Organic	44
"HB-20" Partially Hydrogenated Alkyl-Aryl Hydrocarbon	Organic	44
"HB-40" Partially Hydrogenated Terphenyl	Organic	45
Herbicidal Oil No. 1	Lion Oil	46
Herbicidal Oil No. 6	Lion Oil	46
Hexahydroaniline (Cyclohexylamine)	Organic	37
High-Pressure Journal Oil	Lion Oil	43
"Hi-Gloss R#2" Interior Luster Wood Finish	Organic	45
Hydraulic Oil	Lion Oil	44
Hydrochloric Acid	Inorganic	45
Hydroxybenzene	Organic	55
ortho-Hydroxy Benzoic Acid	Organic	65
ortho-Hydroxychlorobenzene	Organic	36
para-Hydroxychlorobenzene	Organic	36
para-Hydroxynitrobenzene	Organic	51
Industrial Rust Preventatives and Mastics	Lion Oil	54
Industrial Sound Deadener	Lion Oil	54
Ink Asphalt	Lion Oil	30
Ink Oil	Lion Oil	46
"Insoluble Sulfur 60"	Organic	45
Iron Phosphide	Inorganic	41
Iso Octyl Iso Decyl Phthalate	Organic	68
Isopropyl 2,4-Dichloro-phenoxyacetate (2,4-Dichlorophenoxyacetic Acid)	Organic	38

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Product	Division	Page No.
2,4-D Isopropyl Ester (2,4-Dichlorophenoxyacetic Acid)	Organic	38
Kerosene	Lion Oil	46
K Kote	Lion Oil	52
Lampblack	Inorganic	45
"Lauxein" Casein and Soybean Adhesives	Plastics	58
"Lauxite" Urea and Melamine; Phenolic and Resorcinol Resins	Plastics	58
Lava Compound	Lion Oil	44
Lead Orthophosphate, Tri	Inorganic	45
Light Oils	Lion Oil	45
Lion Premium Gasoline with Lionite	Lion Oil	42
Lion Regular Gasoline with Lionite	Lion Oil	42
Low Temp	Lion Oil	53
"Luxtrex" Styrene	Plastics	61
"Lytron" Sand Conditioner	Plastics	58
"Lytron" Styrene	Plastics	58, 62
"Lytron" Textile Processing and Finishing Agents	Plastics	46
Maleic Anhydride	Organic	46
MBTS	Organic	21
Membrane Lining	Lion Oil	30
2-Mercaptobenzothiazole	Organic	21
2-Mercaptobenzothiazole (Purified)	Organic	20
"Mersize" Paper Sizing Agent	Organic	47
"Mertax"	Organic	20
"Mertone" WB-2 and WB-4 Precoat for Reproduction Papers	Inorganic	47
"Meta-Green" Silage Grade Sodium Meta Bisulfite	Inorganic	47
Metal Coating No. 3	Lion Oil	31
Methanol	Plastics	47
Methapyrilene Fumarate (Thenylpyramine Fumarate)	Organic	47
Methapyrilene Hydrochloride (Thenylpyramine Hydrochloride)	Organic	47
"Methasan"	Organic	20
Methionine Hydroxy Analogue (MHA) (Calcium Salt of DL-alpha-Hydroxy-gamma-Methylmercaptobutyric Acid)	Organic	47
ortho-Methoxyaniline	Organic	25
para-Methoxyaniline	Organic	25
Methyl Parathion (80% Solution)	Organic	47
Methyl Phthalyl Ethyl Glycolate	Organic	67
Methyl Salicylate, U.S.P.	Organic	48, 65
Methyl Toluenesulfonate	Organic	48
MHA (Methionine Hydroxy Analogue)	Organic	47
Mixed Acid (Nitrating Acid)	Inorganic	50
mono-Basic Calcium Phosphate	Inorganic	34
mono-Basic Sodium Phosphate	Inorganic	76
Monochlorophthalic Anhydride	Organic	48
"Mono Thiurad"	Organic	20
"Monsanto Detergent MXP"	Inorganic	48
"Monsanto Fire Retardant A"	Inorganic	48
"Monsanto Penta" (Pentachlorphenol, Tech.)	Organic	48
Monsanto Polyethylene	Plastics	61
"Montar" Synthetic Resins	Organic	49
Motor Oils	Lion Oil	49
Multi-Purpose Ultra-White Grease	Lion Oil	44
Muriatic Acid	Inorganic	45
Naturalube DHD Super Duty Oil	Lion Oil	49
Naturalube Reinforced Motor Oil	Lion Oil	49
"Niran" Insecticide (Monsanto Parathion)	Organic	50
Nitrating Acid (Mixed Acid)	Inorganic	50

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Product	Division	Page No.
Nitre Cake	Inorganic	75
Nitric Acid	Inorganic	50
ortho-Nitroaniline (ortho-Aminonitrobenzene)	Organic	50
meta-Nitrochlorobenzene (meta-Chloronitrobenzene)	Organic	50
ortho-Nitrochlorobenzene (ortho-Chloronitrobenzene)	Organic	50
para-Nitrochlorobenzene (para-Chloronitrobenzene)	Organic	51
Nitrogen Fertilizer Solutions	Inorganic	51
"Nitron" Cellulose Nitrate	Plastics	60
para-Nitrophenol	Organic	51
Nokorode Products	Lion Oil	51

O

Product	Division	Page No.
"Oilfos" Glassy Sodium Phosphate	Inorganic	55
"Opalon" Vinyl Chloride	Plastics	59, 61
"Opalon" Vinyl Chloride and Vinyl Chloride Copolymers	Plastics	59
"Orizon" Polyethylene	Plastics	59, 60
Orthophosphoric Acid	Inorganic	56
OS-43 Coolant for Electronic Equipment	Organic	55

P

Product	Division	Page No.
Paper Laminant	Lion Oil	31
Parathion ("Niran" Insecticide)	Organic	50
Paving Asphalts	Lion Oil	31
Pentachlorophenol, Tech. ("Monsanto Penta")	Organic	48
Phenacetin	Organic	22
ortho-Phenetidine	Organic	55
para-Phenetidine	Organic	55
Phenol	Organic	55
Pheno'sulfonic Acid	Organic	56
Phenolphthalein, U.S.P.	Organic	56
Phenolphthalein, Yellow, not U.S.P.	Organic	56
Phenylbenzene	Organic	33
Phosphatic Fertilizer Solution	Inorganic	56
Phosphoric Acid	Inorganic	56
Phosphoric Anhydride	Inorganic	57
Phosphoric Oxide and Solid P_2O_5	Inorganic	57
Phosphorous Acid	Inorganic	57
Phosphorus, Elemental (Yellow and White)	Inorganic	57
Phosphorus Oxychloride	Inorganic	57
Phosphorus Pentasulfide	Inorganic	57
Phosphorus Pentoxide	Inorganic	57
Phosphorus Trichloride	Inorganic	58
Phosphoryl Chloride	Inorganic	57
Phthalic Anhydride	Organic	58
Phthaloyl Chloride	Organic	58
Phthalyl Chloride	Organic	58
Pole Compound	Lion Oil	31
Polychlorinated Polyphenyls	Organic	27
Polyoxyethylene Ethers and Thioethers ("Steron")	Inorganic	77
Polyvinyl Butyral	Plastics	57
Potash, Caustic	Inorganic	35
Potassium Biphosphate	Inorganic	63
Potassium Dihydrogen Phosphate	Inorganic	63
Potassium Metaphosphate	Inorganic	63
Potassium Phenylacetate 65% Solution	Organic	63
Potassium Phosphate, Di	Inorganic	63
Potassium Phosphate, Mono	Inorganic	63
Potassium Phosphate, Tri	Inorganic	63
Potassium Pyrophosphate, Tetra	Inorganic	63
Premium Gasoline (Unleaded)	Lion Oil	42
Pressure Gun Lubricant	Lion Oil	44
Primary-Ammonium Phosphate	Inorganic	25
Primary Calcium Phosphate	Inorganic	34
Propane	Lion Oil	46
"Pydraul-60" Functional Fluid	Organic	64
"Pydraul-150" Functional Fluid	Organic	64
"Pydraul-600" Functional Fluid	Organic	64
"Pydraul AC" Functional Fluid	Organic	64
"Pydraul F-9" Functional Fluid	Organic	63
"Py-Ran" Anhydrous Mono Calcium Phosphate	Inorganic	64
"R-2" Crystals	Organic	20
Refrigerator and Compressor Oil	Lion Oil	44
Regular Gasoline (Unleaded)	Lion Oil	42

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P

Product	Division	Page No.
Reodorants, Rubber	Organic	64
Residual Fuel Oil	Lion Oil	46
"Resimene" Melamine	Plastics	60, 62
"Resimene" Melamine and Urea	Plastics	59
"Resinox" Phenolic	Plastics	59, 60, 62
"Resloom" Essentially Monomeric Melamine	Plastics	62
"Rezgard"	Inorganic	64
"Rezite" Clear Exterior Finish	Organic	65
"Rez" Wood Sealer and Primer (Clear)	Organic	64
Road Oil No. 2	Lion Oil	31
Rock Drill Lubricant	Lion Oil	44
"RZ-50-A"	Organic	20
"RZ-50-B"	Organic	20

S

82-S	Lion Oil	54
Saccharin, Sodium, U.S.P.	Organic	65
Saccharin, U.S.P.	Organic	65
"Saflex" Vinyl Butyral	Plastics	60
Salicylate, Methyl, U.S.P.	Organic	48, 65
Salicylate, Sodium, U.S.P.	Organic	65
Salicylic Acid	Organic	65
Salicylic Acid (B Grade)	Organic	66
Salt Cake	Inorganic	66
"Santicizer" 1-H Plasticizer	Organic	66
"Santicizer" 3 Plasticizer	Organic	66
"Santoflex" BX	Organic	26
"Santolene" C Fuel Oil Additive	Organic	70
"Santolene" F Fuel Oil Additive	Organic	70
"Santolene" H Fuel Oil Additive	Organic	71
"Santolene" J Fuel Oil Additive	Organic	71
"Santolite" MHP Industrial Resin	Organic	71
"Santolite" MS (80%) Industrial Resin	Organic	71
"Santolube 70" Oil Additive	Organic	71
"Santolube 203 C" Oil Additive	Organic	71
"Santolube 215" Oil Additive	Organic	72
"Santolube 333" Oil Additive	Organic	72
"Santolube 393" Oil Additive	Organic	72
"Santolube 394-C" Oil Additive	Organic	72
"Santolube 395-X" Oil Additive	Organic	72
"Santomask" II Odor-Masking Agent	Organic	72
"Santomerse" Alkyl Aryl Sulfonates	Inorganic	72
"Santophen" 1 Germicide	Organic	73
"Santophen" 1 Solution	Organic	73
"Santopoid" S Oil Additive	Organic	73
"Santopoid 22" Gear Oil Additive	Organic	73
"Santopoid 22-R1" Gear Oil Additive	Organic	73
"Santopoid 33" Oil Additive	Organic	73
"Santopour" C Oil Additive	Organic	73
"Santoquin"	Organic	74
"Santosite" Sodium Sulfite Anhydrous, Tech.	Organic	74
"Santotan" KR Basic Chrome Sulfate	Inorganic	74
"Santovar" A	Organic	26
"Santowhite" Crystals	Organic	26
"Santowhite" L	Organic	26
"Santowhite" MK	Organic	27
"Santowhite" Powder	Organic	27
"Scriptite" 33 Melamine Formaldehyde	Plastics	62
"Scriptite" 40 Urea-Formaldehyde	Plastics	62
"Scriptite" Series 50-59 Styrene Copolymers	Plastics	62
Seal Kote	Lion Oil	52
Seal Perm	Lion Oil	53
Seal Prime	Lion Oil	53
Seam and Backing Cement	Lion Oil	54
Secondary-Ammonium Phosphate	Inorganic	24
Secondary Sodium Phosphate	Inorganic	76
Sign Kote	Lion Oil	55
Silica Aerogel for Industrial Applications	Inorganic	70
Silica Aerogel for Thermal Insulation	Inorganic	70
"Skydrol" Functional Fluid	Organic	74
"Skydrol 500" Functional Fluid	Organic	74
Sodium Acid Pyrophosphate	Inorganic	74
Sodium Benzoate	Organic	75
Sodium Benzoate, Technical	Organic	75
Sodium Biphosphate	Inorganic	76
Sodium Bisulfate	Inorganic	75
Sodium Bisulfite	Inorganic	75
Sodium Butylbiphenylsulfonate	Inorganic	27

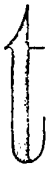
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Product	Division	Page No.
Sodium Butyl-ortho-Phenylphenosulfonate	Inorganic	27
N-Sodium-N-Chloro-para-Toluenesulfonamide	Organic	35
Sodium Dihydrogen Phosphate	Inorganic	76
Sodium Ferric Pyrophosphate	Inorganic	75
Sodium Hexametaphosphate	Inorganic	75
Sodium Meta Bisulfite (Silage Grade) ("Meta Green")	Inorganic	47
Sodium Metaphosphate	Inorganic	76
Sodium Metaphosphate, Low PH	Inorganic	76
Sodium meta-Nitrobenzene Sulfonate	Organic	75
Sodium Pentachlorophenate, Tech.	Organic	69
Sodium Phosphate, Di (Anhydrous, Duohydrate)	Inorganic	76
Sodium Phosphate, Mono	Inorganic	76
Sodium Pyrophosphate (Tetra)	Inorganic	76
Sodium Phosphate, Tri (Anhydrous, Crystalline)	Inorganic	76
Sodium Salicylate, U.S.P.	Organic	65
Sodium Sulfate, Anhydrous, Tech.	Inorganic	66
Sodium Sulfide Plants	Eng. Sales	35
Sodium Ortho-Sulfobenzimide	Organic	65
Sodium Tripolyphosphate	Inorganic	77
Solid Roofing Asphalt	Lion Oil	31
"Sopanox" ortho-Tolyl Biguanide	Organic	77
"SQ" Phosphate	Inorganic	77
Steam Cylinder Oil (Mineral and Compounded)	Lion Oil	44
"Sterox" Polyoxyethylene Esters, Ethers and Thioethers	Inorganic	65
"Sterox" No. 5 Polyoxyethylene Thioether	Inorganic	77
"Sterox" No. 6 Polyoxyethylene Thioether	Inorganic	77
"Sterox" AJ Polyoxyethylene Ether	Inorganic	77
"Sterox" AJ-100 Polyoxyethylene Ether	Inorganic	77
"Sterox" CD Polyoxyethylene Ester	Inorganic	78
"Sterox" SE Polyoxyethylene Thioether	Inorganic	78
"Sterox" SK Polyoxyethylene Thioether	Inorganic	78
"Stymer" Vinyl, Styrene	Plastics	63
Styrene Monomer	Plastics	78
Succinic Anhydride	Organic	7
"Sulfasan" R	Organic	7
ortho-Sulfobenzimide	Organic	65
para-Sulfonamidotoluene	Organic	8
Sulfonyl Bis Phenol	Organic	3
Sulfur Dioxide, Liquid	Inorganic	7
Sulfuric Acid	Inorganic	7
Sulfuric Acid Plants	Eng. Sales	7
Sulfuric Chlorohydrin	Inorganic	3
Sulphate of Ammonia	Inorganic	7
"Syton" C-15 and C-30 Silica Sol	Inorganic	79
"Syton" W-20 and DS Silica Sol	Inorganic	79
Teap	Inorganic	81
Tertiary Calcium Phosphate	Inorganic	35
Tert. Sodium Phosphate	Inorganic	76
Tetramethyl-Thiuram-Disulfide	Organic	21
Tetramethyl-Thiuram-Monosulfide	Organic	20
Tetra Sodium Pyrophosphate	Inorganic	76
Thenylpyramine Fumarate (Methapyrilene Fumarate)	Organic	47
Thenylpyramine Hydrochloride	Organic	47
Thiobis (Di-sec-Amylphenol)	Organic	26
2,2'-Thiobis-(4,6-Dichloro-Phenol)	Organic	23
4,4-Thiobis-(6-tert-Butyl-m-Cresol)	Organic	26
Thiocarbanilide ("A-1")	Organic	21
"Thiofide"	Organic	21
"Thiofide" S	Organic	21
Thiophosphoryl Chloride	Organic	79, 80
"Thiotax"	Organic	21
"Thiurad"	Organic	21
Tiger Motor Oil	Lion Oil	50
para-Toluene Sulfonamide	Organic	80
Toluenesulfonamides N-Ethyl, ortho, para Mixtures	Organic	66, 67
para-Toluene Sulfonchloride	Organic	80
Toluenesulfonic Acid, Technical	Organic	80
para-Toluenesulfonic Acid Amide	Organic	80
ortho-Tolyl Biguanide	Organic	77
Tractor Distillate	Lion Oil	46

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Product	Division	Page No.
Tribasic Calcium Phosphate	Inorganic	35
Tribasic Sodium Phosphate	Inorganic	76
1,2,4-Trichlorobenzene	Organic	80
Tricresyl Phosphate	Organic	80
Triethylammonium Phosphate	Inorganic	81
Triphenyl Phosphate	Organic	81
Triphenyl Phosphite	Organic	81
TSP	Inorganic	76
TSPP	Inorganic	76



Product	Division	Page No.
"Ultron" Vinyl Chloride (Flexible Film and Sheeting)	Plastics	60
"Ultron" Vinyl Chloride (Rigid Sheets)	Plastics	71
Underbody Coatings	Lion Oil	51
Undercar Sealer and Silencer	Lion Oil	51
No. 2002 Undercoating and Sound Deadener	Lion Oil	51



Product	Division	Page No.
Vanadium Sulfuric Acid Catalyst	Eng. Sales	81
"Vanillin Monsanto"	Organic	81
Vapor and Weather Barrier and Accessories	Lion Oil	52
Vehicle	Lion Oil	51
Vinyl Chloride	Plastics	81
"Vuepak" Cellulose Acetate	Plastics	61



Product	Division	Page No.
Water Pump Grease	Lion Oil	44
Wheel Bearing and Universal Joint Grease	Lion Oil	44



Product	Division	Page No.
Zinc Dibutyl-Dithiocarbamate	Organic	19
Zinc Diethyl Dithiocarbamate	Organic	19
Zinc Dihexyl Dithiophosphate	Organic	72
Zinc Dimethyl Dithiocarbamate	Organic	20
Zinc Oxide, Technical	Inorganic	81

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	Division	Page No.
AGRICULTURAL CHEMICALS		
FEED ADDITIVES		
CALCIUM PHOSPHATE, DI—FEED GRADE METHIONINE HYDROXY ANALOGUE (MHA)	Organic	47
"SANTOQUIN"	Organic	74
FERTILIZERS		
AMMONIA, ANHYDROUS	Inorganic	25
AMMONIUM NITRATE PELLETED FERTILIZER	Inorganic	24
AMMONIUM SULFATE	Inorganic	79
AQUA AMMONIA	Inorganic	27
NITROGEN FERTILIZER SOLUTIONS	Inorganic	51
PHOSPHATIC FERTILIZER SOLUTION	Inorganic	56
SULPHATE OF AMMONIA	Inorganic	79
HERBICIDES		
2,4-DICHLOROPHENOXY-ACETIC ACID ISOPROPYL ESTER	Organic	38
INSECTICIDES		
"NIRAN" INSECTICIDE (MONSANTO PARATHION)	Organic	50
"SANTOBANE" DDT INSECTICIDE	Organic	48
"SANTOCHLOR" PARA-DICHLOROBENZENE	Organic	70
WOOD PRESERVATIVES		
"SANTOBRITE" SODIUM PENTACHLOROPHENATE, TECH.	Organic	69
"MONSANTO PENTA" (PENTACHLOROPHENOL, TECH.)	Organic	49
SILAGE PRESERVATIVE		
"META-GREEN" SILAGE GRADE SODIUM META BISULFITE	Inorganic	74
ASPHALT PRODUCTS		
ACID-PROOF ASPHALT COATING	Lion Oil	28
ALUMINUM PAINT VEHICLE	Lion Oil	28
ASBESTOS ASPHALT ROOF COATING	Lion Oil	28
ASPHALT PLASTIC CEMENT	Lion Oil	28
ASPHALT ROOF COATING	Lion Oil	29
BLIND NAILING CEMENT	Lion Oil	29
CODE 2 PRIMER	Lion Oil	29
COLAY PAVING ASPHALT	Lion Oil	29
COLD PROCESS LAP CEMENT	Lion Oil	29
CORKBOARD ERECTION ASPHALT	Lion Oil	29
CRATE-TOP COATING	Lion Oil	30
D-SO JOINT COMPOUND	Lion Oil	30
DEAD LEVEL ROOFING ASPHALTS	Lion Oil	30
DRY-KILN MASTIC	Lion Oil	30
E-120 COATING	Lion Oil	30
FLUX-OILS	Lion Oil	30
INK ASPHALT	Lion Oil	30
MEMBRANE LINING	Lion Oil	30
METAL COATING NO. 3	Lion Oil	31
PAPER LAMINANT	Lion Oil	31
PAVING ASPHALTS	Lion Oil	31
POLE COMPOUND	Lion Oil	31
ROAD OIL NO. 2	Lion Oil	31
SOLID ROOFING ASPHALT	Lion Oil	31
DETERGENT INTERMEDIATE ALKYL BENZENE	Inorganic	23
PHOSPHATE SALTS		
POTASSIUM PHOSPHATE, MONO	Inorganic	63
POTASSIUM PHOSPHATE, TRI	Inorganic	63
POTASSIUM PYROPHOSPHATE, TETRA	Inorganic	63
SODIUM ACID PROPHOSPHATE	Inorganic	76
SODIUM PHOSPHATE, DI (ANHYDROUS, DIHYDRATE)	Inorganic	76
SODIUM PHOSPHATE, MONO	Inorganic	76
SODIUM PHOSPHATE, TRI (ANHYDROUS, CRYSTALLINE)	Inorganic	76
SODIUM PYROPHOSPHATE, TETRA	Inorganic	76
SODIUM TRIPOLYPHOSPHATE	Inorganic	77
"SQ" PHOSPHATE	Inorganic	77
SURFACE ACTIVE AGENTS		
"ARESKAP" SODIUM BUTYL-ortho-PHENYLPHENOL-SULFONATE	Inorganic	27
"ARESKET" SODIUM BUTYL-BIPHENYL-SULFONATE	Inorganic	27
"ARESKLENE" DISODIUM DIBUTYL-ortho-PHENYL-PHENOLDISULFONATE	Inorganic	27
"SANTOMERSE" ALKYL ARYL SULFONATES	Inorganic	63
"STEROX" POLYOXYETHYLENE ESTERS, ETHERS AND THIOETHERS	Inorganic	63
"STEROX" NO. 5 POLYOXY-ETHYLENE THIOETHER	Inorganic	77
"STEROX" NO. 6 POLY-OXYETHYLENE THIOETHER	Inorganic	77

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	Division	Page No.
...ox" AJ Polyoxy-... ylene Ether	Inorganic	77
...ox" AJ-100 Poly-... ethylene Ether	Inorganic	77
...ox" CD Polyoxy-... ylene Ester	Inorganic	77
...ox" SE Polyoxy-... ylene Thioether	Inorganic	78
...rox" SK Polyoxy-... thylene Thioether	Inorganic	78
...Detergents		
Monsanto Detergent ...MXP"	Inorganic	48
...s and Condiments		
...lavan"	Organic	40
...charin, U.S.P.	Organic	65
...charin, Sodium, U.S.P.	Organic	65
...anillin Monsanto"	Organic	81
...s		
...nctional		
...OS-45 Coolant for Electronic Equipment	Organic	55
"Pydraul-60" Functional Fluid	Organic	64
"Pydraul-150" Functional Fluid	Organic	64
"Pydraul-600" Functional Fluid	Organic	64
"Pydraul AC" Functional Fluid	Organic	64
"Pydraul F-9" Functional Fluid	Organic	63
"Skydrol" Functional Fluid	Organic	74
"Skydrol 500" Functional Fluid	Organic	74
Industrial		
Aroclor Polychlorinated Polyphenyls	Organic	27
Biphenyl	Organic	33
Heavy Chemicals		
Aluminum Sulfate, Commercial (Dry, Liquid)	Inorganic	24
Aluminum Sulfate Iron Free	Inorganic	24
Aluminum Chloride Solution 32° Be	Inorganic	24
Battery Acid (Electrolyte)	Inorganic	32
Chlorosulfonic Acid	Inorganic	36
Hydrochloric Acid	Inorganic	45
Nitrating Acid (Mixed Acid)	Inorganic	50
Salt Cake	Inorganic	66
Sodium Bisulfate	Inorganic	75
Sodium Bisulfite	Inorganic	75
Sulfuric Acid	Inorganic	79
Sulfur Dioxide, Liquid	Inorganic	79
Intermediates		
Acetic Acid	Organic	22
Acrylonitrile	Plastics	21
Ortho-Anisidine	Organic	25
Para-Anisidine	Organic	25
Benzenesulfonic Acid, Technical	Organic	32
Benzoic Acid, Technical	Organic	32
Benzyl Chloride	Organic	33
Benzyl Chloride, Stabilized	Organic	33
Bicyclohexyl	Organic	33
Meta-Chloroaniline	Organic	35
Ortho-Chloroaniline	Organic	36
Para-Chloroaniline	Organic	36
Ortho-Chlorophenol, Technical	Organic	36
Para-Chlorophenol	Organic	36
Alpha-Chlorotoluene	Organic	33
Cyclohexylamine	Organic	37
Ortho-Dichlorobenzene, Technical	Organic	37
2,4-Dichlorophenol, Technical	Organic	38
Dicyclohexylamine	Organic	38
Dihydroxy Diphenyl Sulfone	Organic	38
2,4-Dinitrochlorobenzene, Technical	Organic	40
Ethyl Acetate	Organic	40
Ethyl Benzene	Plastics	41
Ethylene Dichloride	Organic	41
Formaldehyde	Inorganic	41
H-Acid	Organic	44
Methanol	Plastics	47
Methyl Toluenesulfonate	Organic	48
Monochlorophthalic Anhydride	Organic	48
Ortho-Nitroaniline	Organic	50
Meta-Nitrochlorobenzene	Organic	50
Ortho-Nitrochlorobenzene	Organic	50
Para-Nitrochlorobenzene	Organic	51
Para-Nitrophenol	Organic	51
Ortho-Phenetidine	Organic	55
Para-Phenetidine	Organic	55
Phenol	Organic	55
Phenolsulfonic Acid	Organic	56
Phthalyl Chloride	Organic	58
Salicylic Acid (B Grade)	Organic	65
"Santochlor" Para-Dichlorobenzene	Organic	70

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	Division	Page No.
Sodium Benzoate, Technical	Organic	75
Sodium Meta-Nitrobenzene Sulfonate	Organic	75
Styrene Monomer	Plastics	78
Thiophosphoryl Chloride	Organic	79
Para-Toluene Sulfonamide	Organic	80
Para-Toluene Sulfonchloride	Organic	80
Toluenesulfonic Acid, Technical	Organic	80
1,2,4-Trichlorobenzene	Organic	80
Vinyl Chloride	Plastics	81
Lampblack		
Lampblack	Inorganic	45
Nokorode Products		
Approved Government Specification Compounds	Lion Oil	55
Brush Cement	Lion Oil	53
Car Cement	Lion Oil	54
Coach Builders Sound Deadener	Lion Oil	54
Coach Builders Undercoating	Lion Oil	54
Construction Asphalts	Lion Oil	54
E Kote	Lion Oil	54
9G54A	Lion Oil	54
K Kote	Lion Oil	52
D-41 Primer	Lion Oil	53
Government Rust Preventatives	Lion Oil	55
Industrial Rust Preventatives and Mastics	Lion Oil	54
Industrial Sound Deadener	Lion Oil	54
Low Temp	Lion Oil	53
82-S	Lion Oil	54
Seal Kote	Lion Oil	52
Seal Prime	Lion Oil	53
Seal Perm	Lion Oil	53
Seal and Backing Cement	Lion Oil	54
Sign Kote	Lion Oil	55
Underbody Coatings	Lion Oil	51
Undercar Sealer and Silencer	Lion Oil	51
No. 2002 Undercoating and Sound Deadener	Lion Oil	51
Vapor and Weather Barrier and Accessories:	Lion Oil	52
Vehicle	Lion Oil	54
Paper Chemicals		
Aluminum Sulfate, Commercial (Dry, Liquid)	Inorganic	24
Salt Cake	Inorganic	66
"Santosil" Sodium Sulfite Anhydrous, Technical	Organic	74
"Mersize" Paper Sizing Agent	Organic	47
Gasolines		
Lion Premium Gasoline with Lionite	Lion Oil	41
Lion Regular Gasoline with Lionite	Lion Oil	42
Premium Gasoline (Unbranded)	Lion Oil	42
Regular Gasoline (Unbranded)	Lion Oil	42
Oils—Lubrication		
AC Track Roll Grease	Lion Oil	42
A.F. Grease	Lion Oil	42
All-Purpose Gear Lubricants	Lion Oil	42
Bearing Oil 4344	Lion Oil	42
4-in-1 Barium Grease	Lion Oil	43
B. & R. Grease	Lion Oil	42
Bentone Grease	Lion Oil	42
Blaco	Lion Oil	43
Castor Machine Oil	Lion Oil	43
Chassis Lubricant	Lion Oil	43
Cotton Picker Spindle Oil	Lion Oil	43
Cup Grease	Lion Oil	43
Engine Oil	Lion Oil	43
Gasoline Pump Grease	Lion Oil	43
Gear and Tractor Roller Lubricant	Lion Oil	43
Gear Lubricant No. 360	Lion Oil	43
High-Pressure Journal Oil	Lion Oil	43
Hydraulic Oil	Lion Oil	44
Multi-Purpose Ultra-White Grease	Lion Oil	44
Pressure Gun Lubricant	Lion Oil	44
Refrigerator and Compressor Oil	Lion Oil	44
Steam Cylinder Oil (Mineral and Compounded)	Lion Oil	44
Water Pump Grease	Lion Oil	44
Wheel Bearing and Universal Joint Grease	Lion Oil	44
Oils—Light		
Burner Oil	Lion Oil	45
Butane-Propane Mixture	Lion Oil	46
Diesel Fuel	Lion Oil	46
Herbicidal Oil No. 1	Lion Oil	46
Herbicidal Oil No. 6	Lion Oil	46
Ink Oil	Lion Oil	46
Kerosene	Lion Oil	46

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	Division	Page No.
Propane	Lion Oil	46
Residual Fuel Oil	Lion Oil	46
Tractor Distillate	Lion Oil	46
Motor Oils		
Advanced-Formula Naturalube DHD Oil	Lion Oil	49
Advanced-Formula Naturalube HD Motor Oil	Lion Oil	49
Naturalube DHD-Super-Duty Oil	Lion Oil	49
Naturalube Reinforced Motor Oil	Lion Oil	49
Tiger Motor Oil	Lion Oil	50
Oil Additives		
Defoamer PC-1244	Organic	37
"Santolene" C Fuel Oil Additive	Organic	70
"Santolene" F Fuel Oil Additive	Organic	70
"Santolene" H Fuel Oil Additive	Organic	71
"Santolene" J Fuel Oil Additive	Organic	71
"Santolube 203C" Oil Additive	Organic	71
"Santolube 215" Oil Additive	Organic	72
"Santolube 333" Oil Additive	Organic	72
"Santolube 393" Oil Additive	Organic	72
"Santolube 394-C" Oil Additive	Organic	72
"Santolube 395-X" Oil Additive	Organic	72
"Santopoid 22" Gear Oil Additive	Organic	73
"Santopoid 22-RI" Gear Oil Additive	Organic	73
"Santopoid 33" Oil Additive	Organic	73
"Santopoid" S Oil Additive	Organic	73
"Santopour" C Oil Additive	Organic	73
Pharmaceuticals		
Acetanilid, U.S.P.	Organic	22
Acetophenetidin, U.S.P.	Organic	22
Acetyl salicylic Acid, U.S.P.	Organic	22
Acetylsalicylic Acid, Starch Granulations	Organic	22
"Actamer"	Organic	23
Benzoic Acid, U.S.P.	Organic	32
Benzyl Benzoate, U.S.P.	Organic	32
Caffeine	Organic	34
Chloramine-T, N.F.	Organic	35
"Coumarin Monsanto"	Organic	37
Methapyrilene Fumarate	Organic	47
Methapyrilene Hydrochloride	Organic	47
Phenol, U.S.P.	Organic	55
Phenolphthalein, U.S.P.	Organic	56
Phenolphthalein, Yellow, Not U.S.P.	Organic	56
Potassium Phenylacetate 64% Solution	Organic	63
Salicylate, Methyl, U.S.P.	Organic	65
Salicylate, Sodium, U.S.P.	Organic	65
Salicylic Acid	Organic	65
Sodium Salicylate, U.S.P.	Organic	65
"Santophen" 1 Germicide	Organic	73
"Santophen" 1 Solution	Organic	73
Sodium Benzoate	Organic	57
"Santomask" H Odor-Masking Agent	Organic	72
"Sopanox" Ortho-Tolyl Biguanide	Organic	77
Plasticizers		
"Aroclor" Polychlorinated Polyphenyls	Organic	27
Dibutyl Phthalate	Organic	37
Di-2-Ethyl Hexyl Adipate	Organic	40
Di (2-Ethyl Hexyl) Phthalate	Organic	38
Diethyl Phthalate	Organic	38
Di-Isodecyl Adipate	Organic	39
Di-Isodecyl Phthalate	Organic	39
Di-Isooctyl Phthalate	Organic	39
Dimethyl Phthalate	Organic	39
Diphenyl Phthalate	Organic	40
"HB-20" Partially Hydrogenated Alkyl-Aryl Hydrocarbon	Organic	45
"HB-40" Partially Hydrogenated Terphenyl	Organic	45
"Santicizer" 1-H Plasticizer	Organic	66
"Santicizer" 3 Plasticizer	Organic	66
"Santicizer" 8 Plasticizer	Organic	66
"Santicizer" 9 Plasticizer	Organic	67
"Santicizer" B-16 Plasticizer	Organic	67
"Santicizer" E-15 Plasticizer	Organic	67
"Santicizer" M-17 Plasticizer	Organic	67
"Santicizer" 140 Plasticizer	Organic	68
"Santicizer" 141 Plasticizer	Organic	68

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	Division	Page No.
"Santicizer" 160 Plasticizer	Organic	68
"Santicizer" 213 Plasticizer	Organic	68
"Santicizer" 602 Plasticizer	Organic	68
"Santicizer" 603 Plasticizer	Organic	69
"Santicizer" 606 Plasticizer	Organic	69
"Santicizer" 611 Plasticizer	Organic	69
"Santicizer" 613 Plasticizer	Organic	69
Tricresyl Phosphate	Organic	80
Triphenyl Phosphate	Organic	81
Phosphorus and Phosphorus Derivatives		
Phosphorus, Elemental	Inorganic	57
Ammonium Phosphates		
Ammonium Phosphate, Di.	Inorganic	24
Ammonium Phosphate, Mono	Inorganic	25
"Monsanto Fire Retardant A"	Inorganic	48
Calcium Phosphate, Di (Feed Grade) (Anhydrous, Dihydrate)	Inorganic	34
Calcium Phosphate, Mono	Inorganic	34
Calcium Phosphate, Tri.	Inorganic	35
Calcium Pyrophosphate	Inorganic	35
"Py-Ran" Anhydrous Mono Calcium Phosphate	Inorganic	64
Phosphoric Acid	Inorganic	56
Phosphorous Acid	Inorganic	57
Potassium Phosphates		
Potassium Metaphosphate	Inorganic	63
Potassium Phosphate, Di.	Inorganic	63
Potassium Phosphate, Mono	Inorganic	63
Potassium Phosphate, Tri.	Inorganic	63
Potassium Pyrophosphate, Tetra	Inorganic	63
Sodium Phosphates		
"Oilfos" Glassy Sodium Phosphate	Inorganic	55
Sodium Acid Pyrophosphate	Inorganic	74
Sodium Hexametaphosphate	Inorganic	75
Sodium Metaphosphate	Inorganic	76
Sodium Metaphosphate, Low PH	Inorganic	76
Sodium Phosphate, Di (Anhydrous, Dihydrate)	Inorganic	76
Sodium Phosphate, Mono.	Inorganic	76
Sodium Phosphate, Tri (Anhydrous, Crystalline)	Inorganic	76
Sodium Pyrophosphate (Tetra)	Inorganic	76
Sodium Triphosphate	Inorganic	77
"SQ" Phosphate	Inorganic	77
Phosphorus Compounds		
Ferrophosphorus (Iron Phosphide)	Inorganic	41
Phosphorus Oxychloride	Inorganic	57
Phosphorus Pentasulfide	Inorganic	57
Phosphorus Pentoxide	Inorganic	58
Phosphorus Trichloride	Inorganic	58
Thiophosphoryl Chloride	Inorganic	79
Special Phosphates		
"Akiofos"	Inorganic	23
Alkyl Acid Phosphates	Inorganic	23
Ammonium Ethyl Phosphate	Inorganic	24
"DP Solution"	Inorganic	40
Triethylammonium Phosphate	Inorganic	81
Resins		
Succinic Anhydride	Organic	78
"Montar" Synthetic Resins	Organic	49
"Santolite" MHP Industrial Resin	Organic	71
"Santolite" MS (80%) Industrial Resin	Organic	71
Adhesives		
"Lauxein" Casein and Soybean Adhesives	Plastics	58
"Lauxite" Urea and Melamine; Phenolic and Resorcinol Resins.	Plastics	58
Bonding, Impregnating and Coating Resins		
"Lytron" Styrene	Plastics	58
"Lytron" Sand Conditioner	Plastics	58
"Opalon" Vinyl Chloride	Plastics	59
"Orizon" Polyethylene	Plastics	59
Polyvinyl Butyral	Plastics	59
"Resimene" Melamine and Urea	Plastics	59
"Resinox" Phenolic	Plastics	59
Calendering, Extruding and Laminating Materials		
"Opalon" Vinyl Chloride and Vinyl Chloride Copolymers	Plastics	59
"Orizon" Polyethylene	Plastics	60
"Resimene" Melamine	Plastics	60

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	Division	Page No.
"Resinox" Phenolic	Plastics	60
"Saflex" Vinyl Butyral	Plastics	60
Fabricating Materials		
"Nitron" Cellulose Nitrate	Plastics	60
"Ultron" Vinyl Chloride (Flexible Film and Sheeting)	Plastics	60
"Ultron" Vinyl Chloride (Rigid Sheets)	Plastics	61
"Vuepak" Cellulose Acetate	Plastics	61
Molding Materials		
"Lustrex" Styrene	Plastics	61
"Opalon" Vinyl Chloride	Plastics	61
Monsanto Polyethylene	Plastics	61
"Resimene" Melamine	Plastics	62
"Resinox" Phenolic	Plastics	62
"Lytron" Textile Processing and Finishing Agents	Plastics	46
Paper and Textile Resins		
Catalysts	Plastics	62
"Lytron" Styrene	Plastics	62
"Resloom" Essentially Monomeric Melamine	Plastics	62
"Scriptite" 33 Melamine Formaldehyde	Plastics	62
"Scriptite" Series 50-59 Styrene Copolymers	Plastics	63
"Scriptite" 40 Urea-Formaldehyde	Plastics	62
"Stymer" Vinyl, Styrene	Plastics	63
Resin Intermediates		
Adipic Acid	Organic	23
Bisphenol A	Organic	33
"Benthal"	Organic	32
Fumaric Acid	Organic	41
Maleic Anhydride	Organic	46
Phthalic Anhydride	Organic	58
Triphenyl Phosphite	Organic	81
Rubber Chemicals		
Accelerators, Rubber		
"A-32"	Organic	19
"A-100"	Organic	19
Accelerator B	Organic	19
"Butasan"	Organic	19
DPG	Organic	19
"El-Sixty"	Organic	19
"Ethasan"	Organic	19
"Ethyl Thurad"	Organic	19
"Guantal"	Organic	20
"Mertax"	Organic	20
"Methasan"	Organic	20
"Mono Thiurad"	Organic	20
"R-2" Crystals	Organic	20
"RZ-50-A"	Organic	20
"RZ-50-B"	Organic	20
"Santocure"	Organic	20
"Santocure" NS	Organic	21
Trocarbanilide ("A-1")	Organic	21
"Thiofide"	Organic	21
"Thiofide" S	Organic	21
"Thiotax"	Organic	21
"Thurad"	Organic	21
Antioxidants, Rubber		
"Flectol" H	Organic	25
"Santoflex" AW	Organic	26
"Santoflex" B	Organic	26
"Santoflex" BX	Organic	26
"Santoflex" 35	Organic	26
"Santovar" A	Organic	26
"Santowhite" Crystals	Organic	26
"Santowhite" L	Organic	26
"Santowhite" MK	Organic	27
"Santowhite" Powder	Organic	27
Special Materials		
"Insoluble Sulfur 60"	Organic	45
"Sulfasan" R	Organic	78
Triphenyl Phosphate	Organic	81
Silicas		
Calcium Silicate Slag	Inorganic	35
"Mertone" WB-2 and WB-4 Precoat for Reproduction Papers	Inorganic	47
"Santocel" Silica Aerogel for Industrial Applications	Inorganic	70
"Santocel" Silica Aerogel for Thermal Insulation	Inorganic	70
"Syton" C-15 and C-30 Silica Sol	Inorganic	79
"Syton" W-30 and DS Silica Sol	Inorganic	79
Surface Coatings		
"Color-Toned Rez" Exterior Penetrating Sealers	Organic	36
"Rez" Color Toned Penetrating Wood Sealers	Organic	36
"Rezite" Clear Exterior Finish	Organic	65
"Rez" Wood Sealer and Primer (Clear)	Organic	64
Other Products		
Bone Ash	Inorganic	33
Carbon Dioxide	Inorganic	35

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	Division	Page No.
CAUSTIC POTASH	Inorganic	35
CHLORINE-CAUSTIC SODA, CAUSTIC POTASH, AND SODIUM SULFIDE PLANTS	Eng. Sales	35
"SANTOTAN" KR BASIC CHROME SULFATE	Inorganic	74
SODIUM SULFIDE PLANTS	Eng. Sales	35
SULFURIC ACID PLANTS	Eng. Sales	79
VANADIUM SULFURIC ACID CATALYST	Eng. Sales	71
ZINC OXIDE, TECHNICAL	Inorganic	81

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