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1964

MONSANTO PRODUCTS

0557543

TOWOLDMON0041278
WATER_PCB-00025747

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OS-45® TYPE III HIGH TEMPERATURE AIRCRAFT HYDRAULIC FLUID.

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

PROPERTIES: A clear, amber liquid with outstanding hydraulic properties over a −65 F. to 400 F. temperature range.

USES: High temperature hydraulics for both airborne and ground environmental application.

SHIPPING INFORMATION: Chemicals NOIBN. 1-qt. cans; 1-gal. cans; 5-gal. cans; 59-gal. drums.

OS-45® TYPE IV HIGH TEMPERATURE AIRCRAFT HYDRAULIC FLUID.

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid

PROPERTIES: A clear amber liquid with outstanding hydraulic properties over a −65°F. to 550 F. temperature range.

USES: High temperature hydraulic for both airborne and ground environmental applications.

SHIPPING INFORMATION: Chemicals NOIBN. 1-qt. cans; 1-gal. cans; 5-gal. cans; 54-gal. drums.

SILICON—ELECTRONIC GRADE

INORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Single-crystal float zone rods, Czochralski ingots and epitaxial wafers. Polycrystal rods or chunks, slices or lapped wafers.

PURITY: Less than 0.2 parts per billion base boron content.

GENERAL INFORMATION: Ultra-high purity silicon for use in the manufacture of electronic semi-conductor devices such as diodes, rectifiers and transistors. Available in various electrical resistivity ranges, conductivity types, diameters and lengths according to individual customer requirements.

USES: Single-crystal rods used directly in the manufacture of semi-conductor devices, polycrystal rods used for zone-refining to produce single-crystal form and polycrystalline chunks used for single-crystal growing techniques.

SHIPPING INFORMATION: Silicon Metal, Electronic Grade. Special containers according to form and quantity. Individual rods packaged in polyethylene sleeves with data sheet.

FUNCTIONAL FLUIDS: AIRBORNE, INDUSTRIAL, SPECIALTY

AIRBORNE AND SPECIALTY

COOLANOL 45® DIELECTRIC COOLANT FOR ELECTRONIC EQUIPMENT

See Page M-5/11

OS-45® TYPE III HIGH TEMPERATURE AIRCRAFT HYDRAULIC FLUID.

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid

PROPERTIES: A clear, amber liquid with outstanding hydraulic properties over a −65 F. to 400 F. temperature range.

USES: High temperature hydraulics for both airborne and ground environmental applications.

SHIPPING INFORMATION: Chemicals NOIBN. 1-qt. cans; 1-gal. cans; 5-gal. cans; 54-gal. drums.

OS-45® TYPE IV HIGH TEMPERATURE AIRCRAFT HYDRAULIC FLUID.

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid

PROPERTIES: A clear, amber liquid with outstanding hydraulic properties over a −65 F. to 550 F. temperature range.

USES: High temperature hydraulic for both airborne and ground environmental applications.

SHIPPING INFORMATION: Chemicals NOIBN. 1-qt. cans; 1-gal. cans; 5-gal. cans; 54-gal. drums.

SKYDROL® 500-A FIRE RESISTANT JET AIRCRAFT HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Moisture 20% max.; neutralization number 0.10 max.; Sp. Gr. 25°/25° C. 1.060-1.064; viscosity at 100 F. 11.7±0.4 cs.

PROPERTIES: A clear, purple, fire-resistant hydraulic fluid with excellent lubricity. Operational at −65 F.

USES: Hydraulic fluid for hydraulic systems in turbo-jet and turbo prop aircraft, which must be operational at −65 F.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 1-qt. cans; 1-gal. cans; 5-gal. cans; 54-gal. drums.

SKYDROL® 7000 FIRE RESISTANT AIRCRAFT HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

TYPICAL ANALYSIS: Cloud point below 0°F.; moisture 0.25% max.; neutralization number 0.2 max.; Sp. Gr. 1.080 to 1.086 at 25°/25°C.; pour point −70°F. or lower.

PROPERTIES: A clear, green fire-resistant hydraulic fluid with outstanding lubricity, stability, non-corrosiveness, excellent viscosity-temperature characteristics, and resistance to oxidation.

USES: Hydraulic fluid in aircraft cabin superchargers, expansion turbines for air-conditioning systems and the aircraft hydraulic system itself.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 1-qt. cans; 1-gal. cans; 5-gal. cans; 54-gal. drums.

PYDRAUL® AC COMPRESSOR LUBRICANT

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—405 SSU, 210°F.—42 SSU; moisture—0.15% max.; neutralization number (acid)—0.15 max.; sp. gr. at 25°/25°C.—1.310-1.360.

PROPERTIES: A clear blue, mobile straight synthetic fire resistant air compressor lubricant with excellent lubricity; non-corrosive, extremely stable to heat and oxidation as a shear stable fluid with a two-fold purpose to eliminate gum carbon deposits on valves and cylinder walls, thereby reducing maintenance costs; and to provide safety from air compressor fires and explosions.

USES: A fire and explosion resistant lubricant for air compressors, such as those used in air separation plants, plant air systems, ammonia synthesis plants, gas transmission booster stations and other type processing plants.

SHIPPING INFORMATION: Chemicals NOIBN. 54-gal. steel drums; 5-gal. cans.

PYDRAUL® F-9 HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—215 SSU, 210 F.—45 SSU; moisture—0.20% max.; neutralization number (acid)—0.30 max.; sp. gr. at 25°/25°C.—1.270-1.300.

PROPERTIES: A cloudy blue liquid; straight synthetic fire resistant fluid with excellent lubricity and corrosion characteristics; non-corrosive, extremely stable to both heat and air; recoverable by filtration; designed for long service life.

USES: Fire resistant hydraulic fluid in [illegible] hydraulic presses, automatic machine tools [illegible]

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 55-gal. steel drums and 5-gal. cans.

0557548

TOWOLDMON0041283
WATER_PCB-00025752

PYDRAUL® 60 HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—60 SSU, 210°F.—34 SSU; moisture—0.1% max.; neutralization number (acid)—0.25 max.; sp. gr. at 25°/25°C.—1.105-1.125.

PROPERTIES: A cloudy blue liquid, straight synthetic fire resistant hydraulic fluid with excellent lubricating and pumping characteristics; highly resistant to mechanical shear and breakdown; inert to common metals of construction; an excellent fluid for low temperature operations.

USES: A fire resistant hydraulic fluid in systems requiring extremely low viscosity. Low viscosity is excellent for high speed, precision equipment such as machine tools. Low temperature properties suited for many outdoor operations.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 54-gal. steel drums and 5-gal. cans.

PYDRAUL® 150 HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—150 SSU, 210°F.—50 SSU; moisture—0.1% max.; neutralization number (acid)—0.17 max.; sp. gr. at 25°/25°C.—1.110-1.135.

PROPERTIES: A cloudy blue liquid, straight synthetic fire resistant hydraulic fluid of low viscosity with excellent lubricity and low temperature pumping characteristics; non-corrosive, stable to heat and air.

USES: Fire resistant hydraulic fluid in equipment which operates out of doors at low temperatures part or all of the time, such as Askania Regulator Equipment, fork-lift trucks and similar equipment with cold weather fluid requirements.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 54-gal. steel drums; 5-gal. cans.

PYDRAUL® 625 HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—625 SSU, 210°F.—45 SSU; moisture—0.15% max.; neutralization number (acid)—0.30 max.; sp. gr. at 25°/25°C.—1.340-1.370.

PROPERTIES: A cloudy blue liquid, straight synthetic fire resistant hydraulic fluid of high viscosity with excellent lubricity and pumping characteristics; non-corrosive, extremely stable to heat and air; a shear, stable fluid designed for long service life.

USES: A fire resistant hydraulic fluid in equipment requiring a high viscosity medium, such as large forming presses, extrusion presses and some die-casting machines.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 54-gal. steel drums; 5-gal. cans.

PYDRAUL® A-200 HYDRAULIC FLUID

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

TYPICAL ANALYSIS: Viscosity at 100°F.—230 SSU, 210°F.—41.9 SSU; moisture—0.02% max.; neutralization number (acid)—0.80-1.10 max.; sp. gr. at 25°/25°C.—1.415-1.450.

PROPERTIES: A cloudy blue liquid, straight synthetic, fire-resistant hydraulic fluid with excellent lubricity; non-corrosive, extremely stable to both heat and air; is designed to be permanent; fluid spilled and burned can be easily reclaimed by filtration; does not thicken with use; resists "breakdown" even under extreme conditions; passes ASTM-D-665-A rust test with perfect score; A-200 is shear stable and undergoes no loss of viscosity after years of severe use.

USES: Fire resistant hydraulic fluid in die-casting machines, hydraulic presses, automatic welding machines and similar applications requiring a medium viscosity fluid.

SHIPPING INFORMATION: Hydraulic system fluids other than petroleum. 54-gal. steel drums; 5-gal. cans.

THERMINOL® FR — HEAT TRANSFER LIQUIDS

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquid.

PROPERTIES: Clear, colorless liquids with high boiling points [illegible] extremely fire resistant.

USES: *Therminol* FR liquids are fire resistant heat transfer media produced to fluid specifications important to heat transfer.

Therein three *Therminol* FR products: *Therminol* FR-1 with low temperature pumping, as well as [illegible] requires both heating and cooling; *Therminol* FR-2, with the optimum balance of properties for use in the temperature range [illegible] heat transfer [illegible]; *Therminol* FR-3 with a boiling point for special processing equipment applications.

SANTOWAX® OMP — ORGANIC NUCLEAR REACTOR COOLANT

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Solid

PROPERTIES: A high boiling thermal and radiation resistant heat transfer medium.

USES: Organic nuclear reactor coolant and high temperature industrial heat transfer medium.

HEAVY CHEMICALS

ALUMINUM SULFATE

See Page M-5/49

SODIUM BISULFATE

SODIUM BISULFATE NITRE CAKE

INORGANIC DIVISION

FORMULA: $NaHSO_4$

MOLECULAR WEIGHT: 120.07

STANDARD FORM: Globular.

TYPICAL ANALYSIS: 36.7% available H_2SO_4.

USES: Used in viscose rayon spinning baths, dyeing woolen goods; refining nickel ores; manufacture of sulfate pulp, in tanneries for pickling, delimiting and making one-bath tan solutions; as an acid scour for household use; as a bowl cleaner in sanitary trade.

SHIPPING INFORMATION: Nitre Cake. 100-lb. bags and 400-lb. drums.

SODIUM SULFITE

SODIUM SULFITE ANHYDROUS TECHNICAL *Santosite* ®

INORGANIC DIVISION—LITERATURE AVAILABLE

FORMULA: Na_2SO_3

MOLECULAR WEIGHT: 126.06

STANDARD FORM: Powder.

TYPICAL ANALYSIS: Tan to slightly pink crystalline powder; assay (Na_2SO_3 97.5% min.; color of filtrate from 10% solution in water not darker than APHA 70.

PROPERTIES: Will oxidize to sodium sulfate if not kept dry. Normally contains less than 1% sodium chloride, less than 0.1% iron, less than 0.2% insoluble, less than 0.2% organic matter. The balance of impurity is sodium sulfate. The unfiltered water solution has a brown color due to suspended $Fe_2(OH)_6$. Solubility all of the product will pass through a No. 20 U. S. Standard sieve.

USES: As a reducing agent in oxygen removal from boiler feed water; depressant in ore flotation; manufacture of rubber and cordage.

SHIPPING INFORMATION: Sodium Sulfite [illegible] and hopper cars.

TOWOLDMON0041284
WATER_PCB-00025753

ortho-NITROANILINE *Also known as ortho-aminonitro-benzene.*

ORGANIC DIVISION

MOLECULAR WEIGHT: 138.12

STANDARD FORM: Flakes.

SPECIFICATIONS: Y llow-to orange flakes; crystallizing point 69.7 C. min.

PROPERTIES: Tends to form lumps on standing. Milling to desired fineness just before use is recommended. Addition of 0.5% tricalcium monophate reduces the caking tendency.

USES: Manufacture of lakes and toners dyes such as ONA Black; ONA Orange and Hansa Yellow 5G; synthesis of coccidiostats, photographic anti-fogging agents and benzotriazoles (a rust inhibitor patented by Procter and Gamble). CAUTION: This product is toxic. Avoid breathing its dust and skin contact.

SHIPPING INFORMATION: Dye Intermediate NOIBN "Poison" label required. 175-lb. fiber drums; steel tank cars.

para-NITROANILINE

ORGANIC DIVISION—LITERATURE AVAILABLE

MOLECULAR WEIGHT: 138.12

SPECIFICATIONS: Appearance, yellow to amber crystals; Ash 0.2% max.; Color of HCl solution, NPA No. 4 max.; Inorganic Chlorides, as Cl, 0.03% max.; Melting Point 148.0° C. min.

USES: Manufacture of anti-oxidants, anti-ozonants, gasoline gum inhibitors; rubber compounds for pellets, dyestuffs, color and pigments.

CONTAINERS: Code 3J ICC21B Lever pak with flowed in rubber gasket. Gross weight: 300-lbs. approx.

SHIPPING CLASSIFICATION: para-Nitroaniline (Dye Intermediate NOIBN).

ortho-PHENETIDINE

Also known as ortho-amino-phenylethyl ether, ortho-aminophenetole and 2-amino-ethoxybenzene.

ORGANIC DIVISION

MOLECULAR WEIGHT: 137.18

STANDARD FORM: Liquid.

SPECIFICATIONS: Dark red liquid; crystallizing point −4.0°C. min. Distillation range: first drop 231.0° C. min.; 95% (1-96 ml) 240°C. max.; dry point 234.0 C. max.; solubility in HCl complete.

USES: An intermediate in the production of dyestuffs. CAUTION: This product is toxic. Avoid breathing its vapors and contact with skin.

SHIPPING INFORMATION: Dye Intermediate NOIBN. "Poison" label required. 475-lb. steel drums.

para-PHENETIDINE

Also known as para-aminophenyl-ethyl ether, para-aminophenetole and 4- amino-ethoxybenzene.

ORGANIC DIVISION

MOLECULAR WEIGHT: 137.18

STANDARD FORM: Liquid.

SPECIFICATIONS: Light yellow liquid; crystallizing point 4.0°C. min.; distillation range: first drop 240.0 C. min.; 95% (1-96 ml) 2.0 C. max.; dry point 251.0 C. max.; solution in HCl opalescent max.

USES: An intermediate in the production of dyestuffs and pharmaceuticals. CAUTION: This product is toxic. Avoid breathing its vapors and avoid contact with the skin.

SHIPPING INFORMATION: Dye Intermediate NOIBN. "Poison" label required. 450-lb. steel drums.

ETHAVAN® *Ethylvanillin.*

ORGANIC DIVISION—LITERATURE AVAILABLE

MOLECULAR WEIGHT: 166.17

STANDARD FORM: Fine crystalline needles.

SPECIFICATIONS: Fine white crystalline needles; completely soluble in ethyl alcohol 95° C (1:2); ash 0.03% max.; M.P. 76.5 C. min.

USES: A flavoring and aromatic. Has a flavor similar to that of vanillin but not identical with it. The relative flavoring strength of Ethavan approximates three times that of vanillin.

SHIPPING INFORMATION: Chemicals NOIBN. 100-lb. fiber drums: 25-lb. fiber drums.

METHYL SALICYLATE U.S.P. *Synthetic.*

ORGANIC DIVISION—LITERATURE AVAILABLE

SPECIFICATIONS: [illegible] 99%; Acid Value, 0.2 max.; Refractive Index at 20°C, 1.5-; specific gravity at 25° 25° C., 1.180 to 1.185; solubility in 70% alcohol (1:7), complete; solubility in Normal Potassium Hydroxide 2 hrs., Turbidity, none; color, faint yellow, max.; heavy metals, meets USP; weight per gallon, 9.9 pounds; meets all requirements of USP.

USES: Methyl Salicylate U.S.P. Synthetic is widely used in [illegible] of soaps, cosmetics as perfume and flavor in food flavorings, candy confections, chewing gum and root beer.

SHIPPING INFORMATION: 5-gal. drums, non-returnable; 500 and 50-lb. drums, non-returnable. Methyl Salicylate (Essential Oil NOIBN).

SACCHARIN U.S.P.

See Page M-5/50

VANILLIN U.S.P.

Vanillin U. S. P.; also known as methylprotocatechuic aldehyde and 3-methoxy-4 hydroxybenzaldehyde.

ORGANIC DIVISION—LITERATURE AVAILABLE

MOLECULAR WEIGHT: 152.14

STANDARD FORM: Fine crystals.

SPECIFICATIONS: Fine, white crystalline needles; M.P. 81 [illegible] C min.; no [illegible] color when [illegible] moisture 0.5% max.; solubility in [illegible] 1:2 complete.

USES: As a flavoring agent in foodstuffs and beverages and as an odorant in rubber.

SHIPPING INFORMATION: Chemicals NOIBN. 100-lb. fiber drums; 25-lb. fiber drums.

ACL®

See Page M-5/53

AROCLOR® POLYCHLORINATED POLYPHENYLS

ORGANIC DIVISION—LITERATURE AVAILABLE

STANDARD FORM: Liquids, resins or solids.

PROPERTIES: Chlorinated aromatic hydrocarbons varying from water-white mobile liquids and pale yellow viscous oils to light amber resins and opaque crystalline solids.

GENERAL INFORMATION: *Aroclor* liquids 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.

USES: *Aroclor* liquids are used as dielectrics for condensers or capacitors and transformers. They are used to impregnate carbon resistors, and when combined with other plastic materials, they are excellent sealers or impregnating agents for a variety of electrical apparatus. *Aroclor* compounds also find use as liquid thermostat shafts; vacuum diffusion pump fluids; swelling agents for antojunctive transmission seals; and, as additives and base stocks for specialty lubricants, oil and greases.

SHIPPING INFORMATION: Resin Synthetic NOIBN without filler, 600-lb. steel drums; 300-lb. net fiber drums; 100-lb. net bags.

BENZYL CHLORIDE *Also known as alpha-chlorotoluene.*

ORGANIC DIVISION—LITERATURE AVAILABLE

MOLECULAR WEIGHT: 126.58

STANDARD FORM: Liquid.

SPECIFICATION: Clear to slightly turbid, colorless to yellow liquid; Sp. Gr. 1.100-1.104 at 15.5 - 15.5 C. Boiling range at 760 mm 2 C. max. methylene 179.4 C.

USES: A highly reactive aralkyl halide used in the production of the following: dyestuffs; perfume types such as benzyl alcohol, acetate and other esters; plasticizers; resins; wetting agents; germicides; rubber accelerators; corrosion inhibitors; benzyl benzoate and pharmaceuticals. CAUTION: This product irritates the skin and eyes. Avoid skin contact and vaporization of vapors. Benzyl Chloride is highly reactive with metals and their derivatives, especially iron, and due care must be exercised in handling, storage and processing of Benzyl Chloride.

SHIPPING INFORMATION: Chemicals NOIBN. Corrosive liquid (white label required). 1.5 lb. nickel drums; 2,000-gal 2-compartment nickel tank trucks.

BENZYL CHLORIDE, *[illegible] with 0.25% triethylamine*

ORGANIC [illegible]

SPECIFICATIONS: Same as for preceding product.

TOWOLDMON0041285
WATER_PCB-00025754