

Wallace & Tiernan[®] Liquid Chemical Feed Systems Chemtube[®] PPS Pump Chemical Compatibility Guide

Information provided is intended to serve as a guide in helping select liquid chemical feed and handling pumps for specific applications of the Chemtube[®] PPS peristaltic pump system. Guidance for materials of construction is found in the chemical compatibility table. This guidance provides what we believe to be a suitable and economical choice of materials for each chemical listed.

To use this selection guide

In the tables on the following pages, find your fluid in the indicated column and check the material's compatibility against the pump's material availability. If a particular material is not compatible with your fluid, that material should not be used for that service. Select as alternate material until you find one that is suitable. Refer to legend below for the interpretation of the letters that are located in the columns to the right of each chemical.

Operation

A positive displacement peristaltic pump system is designed for handling a wide range of chemicals and liquids from sodium hypochlorite to heavy slurries to sludge. Simple operation consists of two or three rotating rollers that gradually compress an elastomeric tube, forcing liquid just ahead of each roller. The tube snaps back to its original shape after the rollers pass, refilling with liquid for the next discharge revolution. The pumped liquid only comes in contact with the tube interior and the end fittings. The pumps can be supplied with a constant speed drive, SCR variable speed drive, or a variable frequency drive.

Applications

- Reliable metering of all chemicals used in the water and wastewater treatment process, particularly sodium hypochlorite (out-gassing of this chemical does not affect pump operation).
- Ideal for handling lime and carbon slurries. Transfer of chemicals and liquids from bulk storage supplies to day tanks and process tanks. Optional wheels provide for moving the pump to various transfer sites around the plant.
- Sludge handling. Can be used to charge belt-press or centrifuges, feed return activated sludge.

Legend

- EX:** Recommended, with minimum effect on the mixture substrate, suitable for continuous duty.
G: Recommended, with minimum effect on the mixture substrate, suitable for continuous duty and intermittent duty.
C: Satisfactory, with moderate or strong effect on the substrate, suitable for limited duty.
X: Not recommended.
Blank: No information.



Chemical Compatibility Guide

Chemical Compatibility Table

Chemical	Hypalon® (HY)	Natural Isoprene (NN)	Monomer Ethylene Propylene (EP)	Nitrile Butadiene Substrate (RN)	Butyl rubber for Food Products (BL)	PVC	316 SS	Titanium
Acetaldehyde C ₂ H ₄ O	C	G	EX	X	X	X	EX	EX
Acetic Acid 10% CH ₃ COOH ₂	G	G	EX	C	C	X	EX	EX
Acetic Acid 25% CH ₃ COOH ₂	G	G	EX	C	C	X	EX	EX
Acetic Acid 75% CH ₃ COOH ₂	C	G	EX	X	X	C	G	EX
Acetic Acid, concentrated and vapor	C	G	EX	X	X	C	G	EX
Acetic anhydride (CH ₃ CO) ₂ O	EX	G	G	X	X	X	EX	EX
Acetone CH ₃ COCH ₃	G	C	EX	X	X	X	EX	EX
Activated Carbon Slurry	G	EX	EX	G	G	G	EX	EX
Alcohol	EX	EX	EX	EX	EX	X	EX	EX
Aliphatic Acid	C	X	X	EX	EX			
Aluminum Chloride AlCl ₃	EX	EX	EX	EX	EX	EX	G	EX
Aluminum Fluoride	EX	EX	EX	EX	EX	EX	X	EX
Aluminum Sulfate Al ₂ (SO ₄) ₄	EX	EX	EX	EX	EX	EX	G	EX
Alum AlK(SO ₄) ₂ 12H ₂ O	EX	EX	EX	G	G		EX	
Ammonia NH ₃	G	EX	EX	EX	EX	G	EX	EX
Ammonia Solution	EX	EX	EX	G	G			
Ammonia Liquor								
Ammonium Carbonate (NH ₄) ₂ CO ₃	EX	EX	G	X	X	EX	G	EX
Ammonium Chloride NH ₄ Cl	EX	EX	G	EX	EX	EX	G	EX
Ammonium Hydroxide NH ₄ OH	EX	X	EX	X	X	EX	EX	EX
Ammonium Nitrate NH ₄ NO ₃	EX	X	EX	EX	EX	EX	EX	EX
Ammonium Phosphate NH ₄ H ₂ PO ₄	EX	EX	G	EX	EX	EX	C	EX
Ammonium Sulfate (NH ₄) ₂ SO ₄	EX	EX	EX	EX	EX	EX	G	EX
Amocool Soluble 3%								
Amyl Acetate CH ₃ (CH ₂) ₄ OOCCH ₃	X	X	X	X	X	X	EX	EX
Amyl Alcohol C ₄ H ₉ CH ₂ OH	EX	G	G	G	G	EX	EX	G
Andol 4,5 h136								
Aqua Ammonia	G	EX	EX	G	G	G	EX	EX
Aqua Regia	C	X	X	X	X			EX
Arsenic Acid	EX	G	G	EX	EX	EX	EX	G
Barium Chloride BaCl ₂	EX	EX	G	EX	EX	EX	EX	EX
Barium Hydroxide Ba(OH) ₂ H ₂ O	EX					EX	G	
Barium Salts	EX							
Barium Sulfide	EX	EX	G	EX	EX	EX	G	EX
Beer	EX	EX	G	EX	EX	EX	EX	G
Beet Sugar liquids	EX	EX	G	EX	EX	EX	EX	EX
Bentonite Slurry	G	EX	EX	G	G	EX	EX	EX
Benzaldehyde C ₆ H ₅ CHO	C							
Benzene C ₆ H ₆	X	X	X	X	X			
Benzoic Acid	X	X	EX	X	X	EX	G	
Benzyl Alcohol C ₆ H ₅ CH ₂ OH	G	X	G	X	X		G	
Benzyl Chloride C ₆ H ₅ COCL	X	X	X	X	X		G	
Bitumen								
Borax Na ₂ B ₄ O ₇ ·10H ₂ O	EX	EX	X	G	G	EX	EX	G
Borfluorid-Methanol	G	EX	G	C	C			

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Boric Acid H ₃ BO ₃	EX	EX	EX	EX	EX	EX	EX	EX
Bromine Br ₂	X	X	G	X	X	X	X	
Bromobenzene C ₆ H ₅ Br	X	X	X	X	X			
Butadiene	C	X	X	X	X			
Butanal	C	X	X	X	X			
Butanol	EX	EX	EX	EX	EX			
Butyl Acetate CH ₃ CO ₂ (CH ₂) ₃ CH ₃	X	X	X	X	X			
Butylene Dichloride								
Butyric Acid CH ₃ CH ₂ CH ₂ CO ₂ H	G	X	EX	X	X	X	G	EX
Calcium Bisulfite Ca(HSO ₃) ₂	G	G	G	G	G	G	EX	EX
Calcium Chloride CaCl ₂	EX	EX	EX	EX	EX	C	G	EX
Calcium Hydroxide Ca(OH) ₂	EX	EX	EX	EX	EX	EX	G	EX
Calcium Hypochlorite Ca(OCl) ₂	G	C	EX	G	G	G	G	EX
Calcium Salts	EX	EX	EX	EX	EX			
Carbon Tetrachloride CCl ₄	X	X	X	X	X			
Carbonic Acid CO ₂	EX	EX	EX	G	G	EX	EX	G
Chloracetone	C	C	G	X	X			
Chlorinated Solvent	X	X	X	X	X			
Chlorine Dioxide	C	X	C	X	X			
Chloroacetic Acid ClCH ₂ COOH	G	X	EX	X	X	G	EX	EX
Chlorobenzene C ₆ H ₅ Cl	X	X	X	X	X			
Chloroform CHCl ₃	X	X	X	X	X			
Chloroprene								
Chlorosulfonic Acid ClSO ₃ H	G	X	X	X	X			
Choline								
Chromic Acid CrO ₃ +H ₂ O	G	X	C	X	X	EX	G	EX
Chromic Planting Solutions	G	X	G	X	X			
Circan 21								
Citric Acid HO ₂ CCH ₂ C(OH)(CO ₂ H)CH ₂ CO ₂ H	EX	EX	EX	EX	EX	G	EX	EX
Cironella								
Coconut Oil	G	X	X	EX	EX			
Cod Liver Oil	G	X	G	EX	EX			
Copper Chloride CuCl ₂	EX	EX	EX	EX	EX	EX	X	EX
Copper Sulfate	EX	G	EX	EX	EX	EX	EX	
Copper Salts	EX	EX	EX	G	G	EX	G	EX
Cottonseed Oil	C	X	G	EX	EX			
Creosote Oil	C	X	X	EX	EX			
Cresols HO-(C ₆ H ₄ -CH ₃)	C	X	X	X	X			
Cyclohexane C ₆ H ₁₂	C	X	X	EX	EX	X	EX	EX
Cyclohexanol C ₆ H ₁₁ OH	X	X	X	C	C			
Cyclohexanone C ₆ H ₁₀ (=O)	C	X	G	X	X	X	EX	
Decahydronaphthalene								
Diacetone Alcohol (CH ₃) ₂ C(OH)CH ₂ COCH ₃	G	X	G	X	X	X	G	
Diatomaceous Earth	EX	EX	EX	G	G	G	EX	EX
Dibenzyl Ether	X	X	C	X	X			

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Dibutyl Ether	X	X	X	X	X			
Dibutyl Phthalate C ₆ H ₄ -1,2-(CO ₂ (CH ₂) ₃ CH ₃) ₂	X	X	C	X	X			
Dichlorobenzene C ₆ H ₄ Cl ₂	X	X	X	X	X			
Dicyclohexylamine (C ₆ H ₁₁) ₂ NH	C	C	G	C	C			
Diethanolamine	C	G	G	G	G	X	EX	X
Diethyl Ether	X	X	X	C	X	X	G	EX
Diethyl Oxalate	X	G	G	C	C			
Diethyl Sulfate	X	X	X	X	X			
Diethylamine (C ₂ H ₅) ₂ NH	C	G	G	G	G	X	EX	X
Diethylene Glycol (HOCH ₂ CH ₂) ₂ O	EX	EX	G	EX	EX	EX	EX	EX
Dimethyl Carbinol (20°C)	EX	X	EX	X	X			
Diethylsebacate	X	X	C	G	G			
Dimethyl Ether	X	X	C	X	X			
Dimethyl Formamide HCON(CH ₃) ₂	G	X	G	G	G	X	G	
Dimethyl Aniline (CH ₃) ₂ C ₆ H ₃ NH ₂	X		G			X	G	EX
Diocetyl Phthalate C ₆ H ₄ -1,2-	X	X	G	X	X			
Dioxane								
Dipentene	X	X	X	G	G			
Diphenyl C ₆ H ₅ C ₆ H ₅	X	X	X	X	X			
Diphenyl Oxide								
Ethanolamine H ₂ NCH ₂ CH ₂ OH	C	G	G	G	G	X	EX	G
Ethers								
Ethyl Acetate CH ₃ CO ₂ C ₂ H ₅	C	X	EX	X	X	X	G	EX
Ethyl Alcohol, denatured C ₂ H ₅ OH	EX	EX	EX	EX	EX	X	G	EX
Ethyl Alcohol, ethanol	EX	EX	EX	EX	EX	X	G	EX
Ethyl Cellulose	G	G	C	G	G			
Ethyl Chloride C ₂ H ₅ Cl	X	X	X	C	C	X	G	C
Ethyl Benzene C ₆ H ₅ C ₂ H ₅	X	X	X	X	X			
Ethyl Bromide C ₂ H ₅ Br	X	X	X	C	X			
Ethylene Chlorohydrin ClCH ₂ CH ₂ OH	G	G	C	X	X	X	G	G
Ethylene Diamine H ₂ NCH ₂ CH ₂ NH ₂	C	EX	G	EX	EX	X	G	EX
Ethylene Dichloride ClCH ₂ CH ₂ Cl	X	X	X	X	X	X	G	G
Ethylene Glycol HOCH ₂ CH ₂ OH	EX	EX	EX	X	X	EX	G	EX
Ferric Chloride FeCl ₃	EX	EX	EX	EX	EX	EX	X	EX
Ferric Nitrate	EX	EX	G	EX	EX	EX	G	EX
Ferric Sulfate {Fe(SO ₄) ₃ }	EX	EX	EX	EX	EX	EX	EX	EX
Fluorobenzene C ₆ H ₅ F	X	X	X	X	X			
Fluoboric Acid HBF ₄	EX	EX	G	G	G	EX	G	X
Fluosilicic Acid H ₂ SiF ₆	EX	G	G	EX	EX	X	G	X
Formaldehyde (40% 25C) HCHO	X	G	G	C	C	EX	EX	EX
Formaldehyde (40% 70C) HCHO								
Formamide, pure HCONH ₂	G	G	EX					
Formic Acid HCOOH	G	G	EX	G	G	EX	EX	EX
Fuel Oil	C	X	X	EX	EX	EX	EX	EX
Furan			C					

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Furfural	X	X	G	X	X	X	G	EX
Gear Oil	X	X	X	EX	G	EX	EX	
Gelatins	G	EX	G	EX	EX	G	EX	EX
Glacial Acetic Acid	X	G	EX	X	X	X	EX	EX
Glucose	EX	EX	G	EX	EX	EX	EX	EX
Glycerol	EX	EX	G	EX	EX	EX	EX	EX
Glycol	EX	EX	EX	EX	EX	G	EX	EX
Hexane C ₆ H ₁₄	C	X	X	EX	EX	G	EX	EX
Hexaneditrile								
Hydran 21								
Hydrocarbonates	C	X	X	EX	EX			
Hydran 25								
Hydrochloric Acid, conc. (< 50°C)	EX	G	EX	X	X	G	X	X
Hydrochloric Acid, <65C HCl	EX	G	EX	X	X	G	X	X
Hydrochloric Acid, >65 HCl (> 65°C)	G	C	G	X	X	X	X	X
Hydrocyanic Acid HCN	EX	G	EX	G	G	G	EX	EX
Hydrofluoric Acid HF	EX	X	G	X	X	C	X	X
Hydrofluosilic Acid	EX	C	EX	C	C			
Hydrogen Bromide								
Hydrogen Fluoride								
Hydrogen Fluoride <65% hot								
Hydrogen Fluoride <65% cold								
Hydrogen Fluoride >65% hot								
Hydrogen Fluoride >65% cold								
Hydrogen Sulfide, cold H ₂ S	G	X	EX	X	X	G	EX	G
Hydrogen Sulfide, hot H ₂ S	C	X	EX	X	X			
Hydrogen Peroxide H ₂ O ₂	C	X	G	X	X			
Iodine Tincture	EX	C	EX	C	C	EX	X	EX
Isobutyl Alcohol (CH ₃) ₂ CHCH ₂ OH	EX	EX	G	G	G			
Isocyanide	G	X	EX	X	X			
Isodecane								
Isooctane (CH ₃) ₂ CHCH ₂ C(CH ₃) ₂	X	X	X	EX	EX	EX	EX	
Isopropane	C	X	C	EX	EX			
Isopropyl Acetate CH ₃ CO ₂ CH(CH ₃) ₂	C	X	G	X	X	X	EX	
Isopropyl Chloride (CH ₃) ₂ CHCl	X	X	X	X	X			
Isopropyl Ether	X	X	X	G	G	G	EX	
Karbolineum								
Kerosene	C	X	X	EX	G	EX	EX	EX
Lactic Acid, cold CH ₃ CH(OH)CO ₂ H	G	G	G	G	G	G	G	EX
Lactic Acid, hot CH ₃ CH(OH)CO ₂ H	C	X	G	X	X	G	G	EX
Lead Acetate (CH ₃ CO ₂) ₄ Pb	X	EX	G	G	G	G	G	EX
Lead Nitrate Pb(NO ₃) ₂	X	EX	G	EX	EX	EX	G	
Lead Sulfate	EX	G	G	G	G			
Lime Slurries	G	EX	C	X	X	G	EX	EX
Linseed Oil	C	X	X	EX	EX			

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Lubricating Oils	C	X	X	EX	EX	EX	EX	EX
Lye 10%KOH & NaOH	EX	G	EX	G	G	G		
Lye 25% KOH & NaOH	EX	G	EX	G	G	G		
Lye 50% KOH & NaOH	EX	G	EX	G	G	G		
Magnesium Chloride MgCl ₂	EX	EX	G	EX	EX	EX	EX	EX
Magnesium Hydroxide Mg(OH) ₂	EX	G	G	G	G	EX	EX	EX
Magnesium Salts	EX							
Magnesium Sulfate MgSO ₄	EX	G	G	EX	EX	C	G	EX
Maize Oil								
Maleic Acid	X	G	G	G	G	EX	G	EX
Maleic Anhydride	X	C	C	X	X			
Malic Acid	G	C	G	X	X	EX	EX	EX
Mercuric Chloride HgCl ₂								
Methanol	EX	EX	EX	EX	EX	EX	EX	G
Methyl Ethyl Ketone CH ₃ COC ₂ H ₅	X	X	G	X	X	X	EX	EX
Methyl Glycol Acetate								
Methyl Isobutyl Ketone	X	X	G	X	X	X	G	EX
Methyl Methacrylate H ₂ C=C(CH ₃)CO ₂ CH ₃	X	X	EX	X	X	EX	G	
Methyl Pyrrolidone								
Methyl Salicylate 2-(HO)C ₆ H ₄ CO ₂ CH ₃								
Methylcellulose								
Methylene Chloride CH ₂ Cl ₂	X	X	X	X	X			
Milk	EX	G	G	EX	EX	EX	EX	EX
Mineral Oils	C	X	X	EX	EX	EX	EX	EX
Naphthalene C ₁₀ H ₈	X	X	X	X	X			
Naphtholen zd								
Nickel Chloride NiCl ₂	EX	EX	G	EX	EX	EX	C	EX
Nickel Salts	EX							
Nickel Sulfate	EX	G	G	EX	EX	EX	G	G
Nitric acid, weak 10% HNO ₃ (10%)	EX	C	G	X	X			
Nitrobenzene C ₆ H ₅ NO ₂	X	X	C	X	X	X	C	EX
Nitroethane C ₂ H ₅ NO ₂	G	G	C	X	X			
Nitrogen Oxides	EX	EX	G	EX	EX	EX	G	
Oleic Acid C ₁₇ H ₃₃ COOH	X	X	X	C	C	C	EX	G
Olic Acid								
Olive Oil	G	X	C	EX	EX	G	EX	
Oxalic Acid HO ₂ CCO ₂ H	EX	G	G	G	G	G	EX	EX
Oxygen, cold O ₂	G	C	G	G	G			
Palmitic Acid C ₁₅ H ₃₁ COOH	G	C	C	EX	EX	G	EX	
Pentosin Super Fluid								
Perchloroethylene, 50C Cl ₂ C=CCl ₂	C	X	X	G	G	C	EX	EX
Petrol	C	X	X	EX	EX		EX	EX
Petrol Ether								
Petroleum	C	X	X	EX	EX		EX	EX
Phenol C ₆ H ₅ OH	G	X	G	X	X	C	G	G

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Phenylethyl Ether (C ₆ H ₅) ₂ O								
Phenyl Hydrazine C ₆ H ₅ NHNH ₄	C	EX	C	X	X			
Phosphoric Acid, conc. H ₃ PO ₄	EX	C	EX	X	X	G	C	EX
Phosphorus Trichloride	C	X	G	X	X	X	EX	EX
Picric Acid (O ₂ N) ₃ C ₆ H ₂ OH	G	G	G	G	G	X	G	EX
Pine Oil	X	X	X	EX	EX			
Pine Tree Tar Oil								
Potassium Chloride	EX	EX	G	EX	EX	EX	EX	EX
Potassium Chromate	EX	G	EX	C	C			
Potassium Cyanide KCN	EX	EX	G	EX	EX	EX	G	EX
Potassium Dichromate K ₂ Cr ₂ O ₇	G	C	G	G	G	EX	G	EX
Potassium Hydroxide KOH	EX	G	G	G	G	EX	EX	X
Potassium Permanganate	EX	G	EX	G	G	EX	G	EX
Potassium Sulfate	EX	G	G	EX	EX	EX	EX	EX
Propanol 50C	EX	X	EX	X	X			
Phthalic Anhydride								
Pyridine	C	X	G	X	X	X	EX	G
Salicylic Acid HOC ₆ H ₄ CO ₂ H	G	EX	G	G	G	G	G	EX
Sewage (Municipal)	EX	G	G	EX	EX	G	EX	EX
Silver Nitrate AgNO ₃	EX	EX	EX	G	G	EX	G	EX
Skydrol 500 b (60C)	X	X	G	X	X			
Soap Solution	EX	EX	G	EX	EX	EX	EX	EX
Sodium Bicarbonate NaHCO ₃	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Bisulfate	EX	EX	EX	G	G			
Sodium Bisulfite	EX	EX	EX	G	G			
Sodium Carbonate Na ₂ CO ₃	EX	G	G	G	G	G	X	G
Sodium Chloride NaCl	EX	EX	G	EX	EX	EX	G	EX
Sodium Chlorite	EX	EX	EX	G	G			
Sodium Cyanide	EX	EX	G	EX	EX	EX	G	EX
Sodium Dichromate Na ₂ Cr ₂ O ₇	G							
Sodium Fluoride	G	G	EX	C	C			
Sodium Hydroxide NaOH	EX	EX	EX	G	G	G	G	X
Sodium Hypochlorite NaOCl	EX	X	G	G	G	EX	X	G
Sodium Metabisulfite	G	EX	EX	G	G			
Sodium Nitrate NaNO ₃	EX	G	G	G	G	EX	G	EX
Sodium Phosphate Na ₃ PO ₄	EX	EX	EX	EX	EX	EX	G	EX
Sodium Silicate	EX	EX	EX	EX	EX	EX	G	EX
Sodium Sulfide Na ₂ S		EX	EX	EX	EX	EX	G	EX
Sodium Sulfate Na ₂ SO ₄	EX	EX	EX	EX	EX			
Sodium Thiosulfate Na ₂ S ₂ O ₃	EX	G	EX	G	G	EX	G	EX
Soya Bean Oil	G	X	X	EX	EX	EX	G	EX
Spindle Oil		X	X	EX	EX			
Spirits								
Stearic Acid CH ₃ (CH ₂) ₁₆ CO ₂ H	G	G	C	C	C	G	EX	EX
Styrene C ₆ H ₅ CH=CH ₂	X	X	X	X	X			

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Sulphate Ester Butil	C	X	X	EX	EX			
Sulfonated oil	C	X	X	EX	EX			
Sulfur Dioxide SO ₂	EX	C	EX	C	C	EX	EX	EX
Sulfur Trioxide dry SO ₃	C	C	EX	C	C	EX	C	
Sulfuric Acid 10% H ₂ SO ₄	EX	C	G	C	C	EX	X	X
Sulfuric Acid 25% H ₂ SO ₄	EX	C	C	C	C	EX	X	X
Sulfuric Acid 50% H ₂ SO ₄	EX	C	C	C	C	EX	X	X
Sulfuric Acid 75% H ₂ SO ₄	G	C	C	C	C	X	X	X
Sulfuric Acid 96% H ₂ SO ₄	C	C	C	C	C	X	X	X
Sulfuric Acid, conc. H ₂ SO ₄	C	C	C	C	C	X	X	X
Sulfuric Acid Fuming	C	C	C	C	C	X	X	X
Sulfurous Acid H ₂ SO ₃	EX	C	G	C	C	EX	G	EX
Tannic Acid	EX	EX	X	X	X	EX	EX	EX
Tar	X	X	X	G	G			
Tartaric Acid HO ₂ CCH(OH)CH(OH)CO ₂ H	EX	EX	C	C	C	G	EX	EX
Tectal (tar acid)								
Tellusol t 17								
Tetrachloroethylene	X	X	X	X	X			
Tetraethyl Silicate	C	X	X	G	C			
Tetrahydrofuran	X	X	X	X	X			
Thioglycolic Acid								
Tin Bichloride								
Toluene C ₆ H ₅ CH ₃								
Tributyl Phosphate (C ₄ H ₉) ₃ PO ₄	X							
Trichlorethylene Cl ₂ C=CHCl	X	X	X	X	X			
Triethanolamine N(CH ₂ -CH ₂ -OH) ₃	G	G	G	G	G	G	EX	
Trimetil hexanol	EX	X	EX	X	X	G	EX	
Tritan 21		X	EX	X	X			
Tung Oil								
Turpentine								
Turpentine Oil	X	X	X	X	X			
Vegetable Oils	G	X	X	EX	EX	G	EX	
Vicinus Oil		X	X	EX	EX	G	EX	
Vinegar	EX	G	EX	G	G	G	EX	EX
Xylol	X	X	X	X	X			
Zinc Chloride	EX	EX	G	EX	EX	G	G	EX
Zinc Salts	EX					G	G	EX
Zinc Sulfate	EX	G	G	EX	EX	EX	EX	EX

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