

## Viton Chemical Resistance

Abietic Acid	X
Acetaldehyde	4
Acetamide	3
Acetanilide	3
Acetic Acid, 30%	X
Acetic Acid, 5%	1
Acetic Acid, Glacial	2
Acetic Acid, Hot, High Pressure	4
Acetic Anhydride	4
Acetoacetic Acid	3
Acetone	4
Acetone Cyanohydrin	3
Acetonitrile	1
Acetophenetidine	1
Acetophenone	4
Acetotoluidide	1
Acetyl Acetone	4
Acetyl Bromide	1
Acetyl Chloride	1
Acetylene	1
Acetylene Tetrabromide	1
Acetylene Tetrachloride	1
Acetylsalicylic Acid	1
Acids, Non-organic	X
Acids, Organic	X
Aconitic Acid	X
Acridine	X
Acrolein	3
Acrylic Acid	1
Acrylonitrile	3
Adipic Acid	X
Aero Lubriplate	1
Aero Shell 17 Grease	1
Aero Shell 750	1
Aero Shell 7A Grease	1
Aero Shell IAC	1
Aerosafe 2300	4
Aerosafe 2300W	4
Aerozene 50 (50% Hydrazine 50% UDMF)	4
Air, Below 200° F	1
Air, 200 - 300° F	1
Air, 300 - 400° F	1
Air, 400 - 500° F	3
Aliphatic Dicarboxylic Acid	1

## Legend

1 - Satisfactory
2 - Fair
3- Doubtful
4 - Unsatisfactory
X - Insufficient Data

Alkanes (Paraffin Hydrocarbons)	1
Alkanesulfonic Acid	1
Alkazene	2
Alkenes (Olefin Hydrocarbons)	1
Alkyl Acetone	3
Alkyl Alcohol	1
Alkyl Amine	1
Alkyl Aryl Sulfonates	1
Alkyl Aryl Sulfonics	1
Alkyl Benzene	1
Alkyl Chloride	1
Alkyl Sulfide	1
Alkyl naphthalene Sulfonic Acid	1
Allyl Chloride	1
Allylidene Diacetate	3
Alpha Picoline	3
Aluminum Acetate	4
Aluminum Bromide	1
Aluminum Chlorate	3
Aluminum Chloride	1
Aluminum Ethylate	X
Aluminum Fluoride	1
Aluminum Fluorosilicate	X
Aluminum Formate	3
Aluminum Hydroxide	2
Aluminum Linoleate	1
Aluminum Nitrate	1
Aluminum Oxalate	3
Aluminum Phosphate	1
Aluminum Potassium Sulfate	3
Aluminum Salts	1
Aluminum Sodium Sulfate	3
Aluminum Sulfate	1
Alums-NH <sub>3</sub> -Cr -K	4
Ambrex 33 (Mobil)	1
Ambrex 830 (Mobil)	1
Amines-Mixed	4
Aminoanthraquinone	X
Aminoazobenzene	X
Aminobenzene Sulfonic Acid	X
Aminobenzoic Acid	X
Aminopyridine	X
Aminosalicic Acid	X
Ammonia (Anhydrous)	4
Ammonia and Lithium Metal in Solution	4

Ammonia, Gas, Cold	4
Ammonia, Gas, Hot	4
Ammonia, Liquid (Anhydrous)	4
Ammonium Acetate	3
Ammonium Arsenate	3
Ammonium Benzoate	3
Ammonium Bicarbonate	3
Ammonium Bisulfite	3
Ammonium Bromide	1
Ammonium Carbamate	3
Ammonium Carbonate	1
Ammonium Chloride, 2N	1
Ammonium Citrate	3
Ammonium Dichromate	3
Ammonium Diphosphate	3
Ammonium Fluoride	1
Ammonium Fluorosilicate	X
Ammonium Formate	3
Ammonium Hydroxide, 3 Molar	3
Ammonium Hydroxide, Concentrated	4
Ammonium Iodide	1
Ammonium Lactate	3
Ammonium Metaphosphate	3
Ammonium Molybdenate	3
Ammonium Nitrate, 2N	X
Ammonium Nitrite	X
Ammonium Oxalate	3
Ammonium Perchlorate	3
Ammonium Perchloride	X
Ammonium Persulfate 10%	X
Ammonium Persulfate Solution	X
Ammonium Phosphate	4
Ammonium Phosphate, Dibasic	X
Ammonium Phosphate, Mono-Basic	X
Ammonium Phosphate, Tribasic	X
Ammonium Phosphite	3
Ammonium Picrate	3
Ammonium Polysulfide	3
Ammonium Salicylate	3
Ammonium Salts	3
Ammonium Sulfamate	3
Ammonium Sulfate	4
Ammonium Sulfate Nitrate	4
Ammonium Sulfide	4
Ammonium Sulfite	3

Ammonium Thiocyanate	3
Ammonium Thioglycolate	3
Ammonium Thiosulfate	3
Ammonium Tungstate	3
Ammonium Valerate	3
Amyl Acetate	4
Amyl Alcohol	2
Amyl Borate	1
Amyl Butyrate	1
Amyl Chloride	1
Amyl Chloronaphthalene	1
Amyl Cinnamic Aldehyde	1
Amyl Laurate	1
Amyl Mercaptan	1
Amyl Naphthalene	1
Amyl Nitrate	3
Amyl Nitrite	3
Amyl Phenol	X
Amyl Propionate	1
Anderol, L- 826 (di-ester)	1
Anderol, L- 829 (di-ester)	1
Anderol, L-774 (di-ester)	1
ANG-25 (Di-ester Base) (TG749)	1
ANG-25 (Glyceral Ester)	1
Aniline	3
Aniline Dyes	2
Aniline Hydrochloride	2
Aniline Oil	3
Aniline Sulfate	3
Aniline Sulfite	3
Animal Fats	1
Animal Oil (Lard Oil)	1
Anisole	X
Anisoyl Chloride	X
AN-O-3 Grade M	1
AN-O-366	1
AN-O-6	1
Ansul Ether 161 or 181	4
Anthracene	1
Anthranilic Acid	X
Anthraquinone	X
Anti-freeze Solutions	3
Antimony Chloride	1
Antimony Pentachloride	1
Antimony Pentafluoride	X

Antimony Sulfate	X
Antimony Tribromide	1
Antimony Trichloride	1
Antimony Trifluoride	1
Antimony Trioxide	1
AN-VV-O-366b Hydr. Fluid	1
Aqua Regia	2
Arachidic Acid	X
Argon	1
Aroclor, 1248	1
Aroclor, 1254	1
Aroclor, 1260	1
Aromatic Fuel -50%	1
Arsenic Acid	1
Arsenic Oxide	X
Arsenic Trichloride	4
Arsenic Trioxide	4
Arsenic Trisulfide	4
Arsenites	X
Arsine	X
Aryl Orthosilicate	X
Ascorbic Acid	3
Askarel Transformer Oil	1
Aspartic Acid	3
Asphalt	1
ASTM Oil, No. 1	1
ASTM Oil, No. 2	1
ASTM Oil, No. 3	1
ASTM Oil, No. 4	1
ASTM Oil, No. 5	1
ASTM Reference Fuel A	1
ASTM Reference Fuel B	1
ASTM Reference Fuel C	1
ASTM Reference Fuel D	1
ATL-857	1
Atlantic Dominion F	1
Atlantic Utro Gear-e	1
Atlantic Utro Gear-EP Lube	1
Aure 903R (Mobil)	1
AUREX 256	X
Automatic Transmission Fluid	1
Automotive Brake Fluid	4
AXAREL 9100	X
Azobenzene	X
Bardol B	1

Barium Carbonate	3
Barium Chlorate	3
Barium Chloride	1
Barium Cyanide	1
Barium Hydroxide	1
Barium Iodide	1
Barium Nitrate	3
Barium Oxide	1
Barium Peroxide	3
Barium Polysulfide	3
Barium Salts	1
Barium Sulfate	1
Barium Sulfide	1
Bayol 35	1
Bayol D	1
Beer	1
Beet Sugar Liquids	1
Beet Sugar Liquors	1
Benzaldehyde	4
Benzaldehyde Disulfonic Acid	X
Benzamide	1
Benzanthrone	1
Benzene	1
Benzene Hexachloride	X
Benzenesulfonic Acid 10%	1
Benzidine	1
Benzidine 3 Sulfonic Acid	1
Benzil	1
Benzilic Acid	1
Benzine (Ligroin)	1
Benzocatechol	1
Benzochloride	1
Benzoic Acid	1
Benzoin	1
Benzonitrile	3
Benzophenone	1
Benzoquinone	1
Benzotrichloride	1
Benzotrifluoride	1
Benzoyl Chloride	1
Benzoyl Peroxide	X
Benzoylsulfonilic Acid	1
Benzyl Acetate	3
Benzyl Alcohol	1
Benzyl Amine	X

Benzyl Benzoate	1
Benzyl Bromide	1
Benzyl Butyl Phthalate	3
Benzyl Chloride	1
Benzyl Phenol	1
Benzyl Salicylate	1
Beryllium Chloride	1
Beryllium Fluoride	1
Beryllium Oxide	1
Beryllium Sulfate	3
Bismuth Carbonate	3
Bismuth Nitrate	3
Bismuth Oxychloride	3
Bittern	X
Black Liquor	1
Black Point 77	1
Blast Furnace Gas	1
Bleach Liquor	1
Bleach Solutions	1
Borax	1
Borax Solutions	1
Bordeaux Mixture	1
Boric Acid	1
Boric Oxide	3
Borneol	1
Bornyl Acetate	1
Bornyl Chloride	1
Bornyl Formate	1
Boron Fluids (HEF)	1
Boron Hydride	X
Boron Phosphate	X
Boron Tribromide	X
Boron Trichloride	X
Boron Trifluoride	X
Boron Trioxide	X
Brake Fluid DOT3 (Glycol Type)	4
Bray GG-130	1
Brayco 719-R (VV-H-910)	4
Brayco 885 (MIL-L-6085A)	1
Brayco 910	4
Bret 710	4
Brine	1
Brine (Seawater)	1
Brom - 113	X
Brom - 114	2

Bromic Acid	3
Bromine	1
Bromine Pentafluoride	4
Bromine Trifluoride	4
Bromine Water	1
Bromobenzene	1
Bromobenzene Cyanide	3
Bromochlorotrifluoroethane (Halothane)	1
Bromoform	1
Bromomethane (Methyl Bromide)	1
Bromotrifluoroethylene (BFE)	X
Bromotrifluoromethane (F-13B1)	X
Brucine Sulfate	3
Buffered Oxide Etchants	X
Bunker Oil	1
Bunker's "C" (Fuel Oil)	1
Butadiene (Monomer)	1
Butane	1
Butane, 2, 2-Dimethyl	1
Butane, 2, 3-Dimethyl	1
Butanedial	3
Butanol (Butyl Alcohol)	1
Butene 2-Ethyl (1-Butene 2-Ethyl)	1
Butter-Animal Fat	1
Butyl Acetate or n-Butyl Acetate	4
Butyl Acetyl Ricinoleate	1
Butyl Acrylate	4
Butyl Alcohol	1
Butyl Alcohol (Secondary)	1
Butyl Alcohol (Tertiary)	1
Butyl Amine or N-Butyl Amine	4
Butyl Benzoate	3
Butyl Benzoate or n-Butyl Benzoate	1
Butyl Benzolate	X
Butyl Butyrate or n-Butyl Butyrate	1
Butyl Carbitol	3
Butyl Cellosolve	4
Butyl Cellosolve Acetate	3
Butyl Cellosolve Adipate	2
Butyl Chloride	1
Butyl Ether or n-Butyl Ether	4
Butyl Glycolate	3
Butyl Lactate	3
Butyl Laurate	3
Butyl Mercaptan (Tertiary)	1



Butyl Methacrylate	3
Butyl Oleate	1
Butyl Oxalate	3
Butyl Stearate	1
Butylbenzoic Acid	1
Butylene	1
Butyraldehyde	4
Butyric Acid	2
Butyric Anhydride	3
Butyrolacetone	3
Butyryl Chloride	1
Cadmium Chloride	3
Cadmium Cyanide	3
Cadmium Nitrate	3
Cadmium Oxide	3
Cadmium Sulfate	3
Cadmium Sulfide	3
Calcine Liquors	1
Calcium Acetate	4
Calcium Arsenate	3
Calcium Benzoate	1
Calcium Bicarbonate	3
Calcium Bisulfide	3
Calcium Bisulfite	2
Calcium Bromide	1
Calcium Carbide	X
Calcium Carbonate	1
Calcium Chlorate	3
Calcium Chloride	1
Calcium Chromate	3
Calcium Cyanamide	X
Calcium Cyanide	X
Calcium Fluoride	1
Calcium Gluconate	3
Calcium Hydride	1
Calcium Hydrosulfide	3
Calcium Hydroxide	1
Calcium Hypochlorite	1
Calcium Hypophosphite	3
Calcium Lactate	3
Calcium Naphthenate	X
Calcium Nitrate	1
Calcium Oxalate	3
Calcium Oxide	1
Calcium Permanganate	X

Calcium Peroxide	X
Calcium Phenolsulfonate	3
Calcium Phosphate	1
Calcium Phosphate Acid	3
Calcium Propionate	3
Calcium Pyridine Sulfonate	X
Calcium Salts	1
Calcium Silicate	1
Calcium Stearate	1
Calcium Sulfamate	1
Calcium Sulfate	3
Calcium Sulfide	1
Calcium Sulfite	1
Calcium Thiocyanate	3
Calcium Thiosulfate	1
Calcium Tungstate	3
Caliche Liquors	1
Camphene	1
Camphor	1
Camphoric Acid	1
Cane Sugar Liquors	1
Capric Acid	1
Caproic Acid	1
Caproic Aldehyde	4
Caprolactam	1
Capronaldehyde	1
Carbamate	1
Carbazole	X
Carbitol	2
Carbolic Acid (Phenol)	1
Carbon Bisulfide	1
Carbon Dioxide	1
Carbon Dioxide (Explosive Decompressic	1
Carbon Disulfide	1
Carbon Fluorides	1
Carbon Monoxide	1
Carbon Tetrabromide	X
Carbon Tetrachloride	1
Carbon Tetrafluoride	1
Carbonic Acid	1
Casein	3
Castor Oil	1
Caustic Lime	3
Caustic Potash	3
Caustic Soda (Sodium Hydroxide)	3

Cellosolve	4
Cellosolve, Acetate	4
Cellosolve, Butyl	4
Celluguard	1
Cellulose Acetate	3
Cellulose Acetate Butyrate	3
Cellulose Ether	3
Cellulose Nitrate	3
Cellulose Tripropionate	3
Cellulube (Phosphate Esters)	X
Cellutherm 2505A	1
Cerium Sulfate	3
Cerous Chloride	3
Cerous Fluoride	3
Cerous Nitrate	3
Cetane (Hexadecane)	1
Cetyl Alcohol	1
Chaulmoogric Acid	X
China Wood Oil (Tung Oil)	1
Chloral	3
Chloramine	X
Chloranthraquinone	1
Chlordane	1
Chlorextol	1
Chloric Acid	3
Chlorinated Solvents, Dry	1
Chlorinated Solvents, Wet	1
Chlorine (Dry)	1
Chlorine (Plasma)	X
Chlorine (Wet)	X
Chlorine Dioxide	1
Chlorine Dioxide, 8% Cl as NaClO <sub>2</sub> in sol	1
Chlorine Trifluoride	4
Chlorine Water	1
Chloro 1-Nitro Ethane (1-Chloro 1-Nitro E	4
Chloro Oxyfluorides	X
Chloro Xylenols	1
Chloroacetaldehyde	3
Chloroacetic Acid	4
Chloroacetone	4
Chloroacetyl Chloride	X
Chloroamino Benzoic Acid	3
Chloroaniline	3
Chlorobenzaldehyde	3
Chlorobenzene	1

Chlorobenzene (Mono)	1
Chlorobenzene Chloride	1
Chlorobenzene Trifluoride	1
Chlorobenzochloride	1
Chlorobenzotrifluoride	1
Chlorobromo Methane	1
Chlorobromopropane	1
Chlorobutadiene	1
Chlorobutane (Butyl Chloride)	1
Chlorododecane	1
Chloroethane	1
Chloroethane Sulfonic Acid	3
Chloroethylbenzene	1
Chloroform	1
Chlorohydrin	3
Chloronaphthalene or o-Chloronaphthaler	1
Chloronitrobenzene	3
Chlorophenol or o-Chlorophenol	1
Chloropicrin	1
Chloroprene	1
Chlorosilanes	X
Chlorosulfonic Acid	4
Chlorotoluene	1
Chlorotoluene Sulfonic Acid	3
Chlorotoluidine	1
Chlorotrifluoroethylene (CTFE)	X
Chlorox	1
Chloroxylols	X
Cholesterol	1
Chrome Alum	1
Chrome Plating Solutions	1
Chromic Acid	1
Chromic Chloride	X
Chromic Fluorides	X
Chromic Hydroxide	X
Chromic Nitrates	X
Chromic Oxide	1
Chromic Phosphate	X
Chromic Sulfate	X
Chromium Potassium Sulfate (Alum)	1
Chromyl Chlorides	X
Cinnamic Acid	1
Cinnamic Alcohol	1
Cinnamic Aldehyde	1
Circo Light Process Oil	1

Citric Acid	1
City Service #65 #120 #250	1
City Service Koolmoter-AP Gear Oil 140-	1
City Service Pacemaker #2	1
Clorox	1
Coal Tar	1
Cobalt Chloride	1
Cobalt Chloride, 2N	1
Cobaltous Acetate	3
Cobaltous Bromide	1
Cobaltous Linoleate	X
Cobaltous Naphthenate	X
Cobaltous Sulfate	3
Coconut Oil	1
Cod Liver Oil	1
Codeine	1
Coffee	1
Coke Oven Gas	1
Coliche Liquors	X
Convelex 10	X
Coolanol 20 25R 35R 40& 45A (Monsant	1
Copper Acetate	4
Copper Ammonium Acetate	3
Copper Carbonate	3
Copper Chloride	1
Copper Cyanide	1
Copper Gluconate	3
Copper Naphthenate	X
Copper Nitrate	1
Copper Oxide	1
Copper Salts	1
Copper Sulfate	1
Copper Sulfate 10%	1
Copper Sulfate 50%	1
Corn Oil	1
Cottonseed Oil	1
Creosote, Coal Tar	1
Creosote, Wood	1
Cresol (Methyl Phenol)	1
Cresols	2
Cresylic Acid	1
Crotonaldehyde	1
Crotonic Acid	1
Crude Oil	1
Cumaldehyde	1

Cumene	1
Cumene Hydroperoxide	X
Cupric Sulfate	1
Cutting Oil	1
Cyanamide	X
Cyanides	X
Cyanogen Chloride	X
Cyanogen Gas	X
Cyanohydrin	X
Cyanuric Chloride	X
Cyclohexane	1
Cyclohexanol	1
Cyclohexanone	4
Cyclohexene	1
Cyclohexylamine	1
Cyclohexylamine Carbonate	X
Cyclohexylamine Laurate	1
Cyclopentadiene	1
Cyclopentane	1
Cyclopolyolefins	1
Cymene or p-Cymene	1
DDT (Dichlorodiphenyltrichloroethane)	1
Decalin	1
Decane	1
Delco Brake Fluid	4
Denatured Alcohol	1
Detergent, Water Solution	1
Developing Fluids (Photo)	1
Dexron	1
Dextrin	1
Dextro Lactic Acid	3
Dextron	1
Dextrose	3
DI Water	2
Diacetone	4
Diacetone Alcohol	4
Dialkyl Sulfates	3
Diallyl Ether	X
Diallyl Phthalate	X
Diamylamine	1
Diazinon	2
Dibenzyl (sym-Diphenylethane)	1
Dibenzyl Ether	4
Dibenzyl Sebacate	2
Diborane	X

Dibromoethane	1
Dibromoethyl Benzene	1
Dibutyl Cellosolve Adipate	3
Dibutyl Ether	3
Dibutyl Methylenedithio Glycolate	1
Dibutyl Phthalate	3
Dibutyl Sebacate	2
Dibutyl Thioglycolate	1
Dibutyl Thiourea	1
Dibutylamine	4
Dichloroacetic Acid	1
Dichloroaniline	3
Dichlorobenzene or o-Dichlorobenzene	1
Dichlorobenzene or p-Dichlorobenzene	1
Dichlorobutane	1
Dichlorobutene	1
Dichlorodiphenyl-Dichloroethane (DDD)	1
Dichloroethane	1
Dichloroethylene	1
Dichlorohydrin	3
Dichloroisopropyl Ether	3
Dichloromethane	1
Dichlorophenol	1
Dichlorophenoxyacetic Acid	1
Dichloropropane	1
Dichloropropene	1
Dichlorosilane	X
Dicyclohexylamine	4
Dicyclohexylammonium Nitrate	3
Dieldrin	1
Diesel Oil	1
Di-ester Lubricant MIL-L-7808	1
Di-ester Synthetic Lubricants	1
Diethanolamine (DEA)	3
Diethyl Benzene	1
Diethyl Carbonate	3
Diethyl Ether	4
Diethyl Phthalate	1
Diethyl Sebacate	2
Diethyl Sulfate	3
Diethylamine	4
Diethylaniline	3
Diethylene Glycol	1
Diethylenetriamine	X
Difluorodibromomethane	X

Difluoroethane	1
Difluoromonochloroethane	1
Diglycol Chloroformate	3
Diglycolic Acid	3
Dihydroxydiphenylsulfone	3
Diisobutyl Ketone	X
Diisobutylcarbinol	1
Diisobutylene	1
Diisooctyl Sebacate	2
Diisopropyl Ether (DIPE)	X
Diisopropyl Ketone	4
Diisopropylbenzene	1
Diisopropylidene Acetone	1
Dimethyl Acetamide	3
Dimethylaniline (Xylidine)	1
Dimethyldisulfide (DMDS)	1
Dimethyl Ether	2
Dimethyl Formaldehyde	3
Dimethyl Formamide (DMF)	4
Dimethylhydrazine	3
Dimethyl Phenyl Carbinol	1
Dimethyl Phenyl Methanol	1
Dimethyl Phthalate	2
Dimethyl Sulfoxide (DMSO)	3
Dimethyl Terephthalate (DMT)	1
Dimethylamine (DMA)	4
Dinitrochlorobenzene	1
Dinitrogen Tetroxide	X
Dinitrotoluene (DNT)	4
Diocetyl Phthalate	2
Diocetyl Sebacate	2
Diocetylamine	1
Dioxane	4
Dioxolane	4
Dipentene	1
Diphenyl	1
Diphenyl Oxides	1
Diphenylamine (DPA)	1
Diphenylene Oxide	X
Diphenylpropane	1
Disilane	X
Di-Tert-Butyl Peroxide	X
Dodecylbenzene	1
Dow Chemical 50-4	4
Dow Chemical ET378	X



Dow Chemical ET588	4
Dow Corning -11	1
Dow Corning 1208, 4050, 6620, F-60, XF	1
Dow Corning -1265 Fluorosilicone Fluid	1
Dow Corning -200	1
Dow Corning -220	1
Dow Corning -3	1
Dow Corning -33	1
Dow Corning -4	1
Dow Corning -44	1
Dow Corning -5	1
Dow Corning -510	1
Dow Corning -55	1
Dow Corning -550	1
Dow Corning -704	1
Dow Corning -705	1
Dow Corning -710	1
Dow Corning F-61	1
Dow Guard	1
Dowanol P Mix	X
Dowtherm, 209	4
Dowtherm, A	1
Dowtherm, E	1
Drinking Water	1
Dry Cleaning Fluids	1
DTE 20 Series, Mobil	1
DTE named series, Mobil, light-heavy	1
Elco 28-EP lubricant	1
Epichlorohydrin	4
Epoxy Resins	4
Erucic Acid	X
Esam-6 Fluid	4
Esso Fuel 208	1
Esso Golden Gasoline	1
Esso Motor Oil	1
Esso Transmission Fluid (Type A)	1
Esso WS2812 (MIL-L-7808A)	1
Esso XP90-EP Lubricant	1
Esstic 42, 43	1
Ethane	1
Ethanol	3
Ethanol Amine	4
Ethers	3
Ethoxyethyl Acetate (EGMEEA)	3
Ethyl Acetate-Organic Ester	4

Ethyl Acetoacetate	4
Ethyl Acrylate	4
Ethyl Alcohol	3
Ethyl Ammonium Dichloride	X
Ethyl Benzene	1
Ethyl Benzoate	1
Ethyl Bromide	1
Ethyl Cellosolve	4
Ethyl Cellulose	4
Ethyl Chloride	1
Ethyl Chlorocarbonate	1
Ethyl Chloroformate	4
Ethyl Ether	4
Ethyl Formate	1
Ethyl Hexanol	1
Ethyl Lactate	3
Ethyl Mercaptan	2
Ethyl Nitrite	3
Ethyl Oxalate	2
Ethyl Pentachlorobenzene	1
Ethyl Pyridine	1
Ethyl Silicate	1
Ethyl Stearate	1
Ethyl Sulfate	4
Ethyl Tertiary Butyl Ether	X
Ethyl Valerate	1
Ethylacrylic Acid	X
Ethylamine	3
Ethylcyclopentane	1
Ethylene	2
Ethylene Chloride	2
Ethylene Chlorohydrin	1
Ethylene Cyanohydrin	1
Ethylene Diamine	4
Ethylene Dibromide	1
Ethylene Dichloride	1
Ethylene Glycol	1
Ethylene Hydrochloride	1
Ethylene Oxide	4
Ethylene Oxide, (12%) and Freon 12 (80'	4
Ethylene Trichloride	1
Ethyleneimine	X
Ethylmorpholene Stannous Octotate (50/	4
Ethylmorpholine	1
Ethylsulfuric Acid	3

F-60 Fluid (Dow Corning)	1
F-61 Fluid (Dow Corning)	1
Fatty Acids	1
FC-43 Heptacosofluorotri-butylamine	1
FC75 & FC77 (Fluorocarbon)	2
Ferric Acetate	3
Ferric Ammonium Sulfate	3
Ferric Chloride	1
Ferric Ferrocyanide	3
Ferric Hydroxide	3
Ferric Nitrate	1
Ferric Persulfate	1
Ferric Sulfate	1
Ferrous Ammonium Citrate	3
Ferrous Ammonium Sulfate	3
Ferrous Carbonate	3
Ferrous Chloride	X
Ferrous Iodide	3
Ferrous Sulfate	3
Ferrous Tartrate	3
Fish Oil	1
Fisher Reagent	X
Fluorinated Cyclic Ethers	X
Fluorine (Gas)	X
Fluorine (Liquid)	2
Fluorobenzene	1
Fluoroboric Acid	X
Fluorocarbon Oils	X
Fluoroform (Trifluoromethane)	X
Fluorolube	2
Fluorophosphoric Acid	X
Fluorosilicic Acid	2
Fluorosulfonic Acid	X
Formaldehyde	4
Formamide	3
Formic Acid	4
Freon, 11	2
Freon, 112 (Tetrachlorodifluoroethane)	1
Freon, 113	2
Freon, 113 + High and Low Aniline Oil	X
Freon, 114	1
Freon, 114B2	2
Freon, 115, 116	2
Freon, 12	3
Freon, 12 and ASTM Oil #2 (50/50 Mixtur	1

Freon, 12 and Suniso 4G (50/50 Mixture)	1
Freon, 123 (Dichlorotrifluoroethane)	X
Freon, 124 (Chlorotetrafluoroethane)	X
Freon, 125 (Pentafluoroethane)	X
Freon, 13	1
Freon, 134a (Tetrafluoroethane)	X
Freon, 13B1	1
Freon, 14	1
Freon, 141b (Dichlorofluoroethane)	X
Freon, 142b	2
Freon, 152a (Difluoroethane)	X
Freon, 21	4
Freon, 218	1
Freon, 22 (Chlorodifluoroethane)	4
Freon, 22 and ASTM Oil #2 (50/50 Mixtur	2
Freon, 23 (Fluoroform)	X
Freon, 31	4
Freon, 32	4
Freon, 502	2
Freon, BF (R112)	1
Freon, C316	1
Freon, C318	2
Freon, K-142b	4
Freon, K-152a	4
Freon, MF (R11)	2
Freon, PCA (R113)	2
Freon, TA	3
Freon, TC	1
Freon, TF (R113)	2
Freon, TMC	1
Freon, T-P35	1
Freon, T-WD602	1
Fuel Oil, #6	1
Fuel Oil, 1, and 2	1
Fuel Oil, Acidic	1
Fumaric Acid	1
Fuming Sulphuric Acid (20/25% Oleum)	1
Furaldehyde	4
Furan (Furfuran)	1
Furfural (Furfuraldehyde)	4
Furfuraldehyde	4
Furfuryl Alcohol	X
Furoic Acid	X
Furyl Carbinol	X
Fyrquel 150 220 300 550	1

Fyrquel 90, 100, 500	1
Fyrquel A60	4
Gallic Acid	1
Gasoline	1
Gelatin	1
Germane (Germanium Tetrahydride)	X
Girling Brake Fluid	4
Glauber's Salt	1
Gluconic Acid	3
Glucose	1
Glue	X
Glutamic Acid	3
Glycerine (Glycerol)	1
Glycerol Dichlorohydrin	3
Glycerol Monochlorohydrin	3
Glycerol Triacetate	3
Glycerophosphoric Acid	3
Glyceryl Phosphate	3
Glycidol	3
Glycol Monoether	X
Glycolic Acid	3
Glycols	1
Glyoxylic Acid	3
Grease Petroleum Base	1
Green Sulfate Liquor	1
Gulf Endurance Oils	1
Gulf FR Fluids (Emulsion)	1
Gulf FR G-Fluids	1
Gulf FR P-Fluids	2
Gulf Harmony Oils	1
Gulf High Temperature Grease	1
Gulf Legion Oils	1
Gulf Paramount Oils	1
Gulf Security Oils	1
Gulfcrown Grease	1
Halothane	1
Halowax Oil	1
Hannifin Lube A	1
Heavy Water	X
HEF-2 (High Energy Fuel)	1
Helium	1
Heptachlor	1
Heptachlorobutene	1
Heptaldehyde (Heptanal)	1
Heptane or n-Heptane	1

Heptanoic Acid	1
Hexachloroacetone	3
Hexachlorobutadiene	1
Hexachlorobutene	1
Hexachloroethane	1
Hexaethyl Tetraphosphate	X
Hexafluoroethane (F-116)	X
Hexafluoroxylene	X
Hexafluoroxylene	X
Hexaldehyde or n-Hexaldehyde	4
Hexamethyldisilazane	X
Hexamethylene (Cyclohexane)	1
Hexamethylene Diammonium Adipate	1
Hexamethylenediamine	3
Hexamethylenetetramine	3
Hexane or n-Hexane	1
Hexene-1 or n-Hexene-1	1
Hexone (Methyl Isobutyl Ketone)	3
Hexyl Acetate	1
Hexyl Alcohol	1
Hexylene Glycol	3
Hexylresorcinol	1
High Viscosity Lubricant, H2	1
High Viscosity Lubricant, U4	1
HiLo MS #1	4
Houghto-Safe 1010 phosphate ester	1
Houghto-Safe 1055 phosphate ester	1
Houghto-Safe 1120 phosphate ester	1
Houghto-Safe 271 (Water & Glycol Base)	2
Houghto-Safe 416 & 500 Series	X
Houghto-Safe 5040 (Water/Oil emulsion)	1
Houghto-Safe 620 Water/Glycol	2
Hydraulic Oil (Petroleum Base, Industrial	1
Hydraulic Oils (Synthetic Base)	1
Hydrazine	4
Hydrazine (Anhydrous)	4
Hydrazine Dihydrochloride	3
Hydrazine Hydrate	3
Hydriodic Acid	1
Hydroabietyl Alcohol	X
Hydrobromic Acid	1
Hydrobromic Acid 40%	1
Hydrocarbons, Saturated	1
Hydrochloric Acid (cold) 37%	1
Hydrochloric Acid (hot) 37%	1

Hydrochloric Acid, 3 Molar to 158°F	1
Hydrochloric Acid, Concentrated Room T	1
Hydrochloric Acid, Concentrated to 158°F	1
Hydrocyanic Acid	1
Hydro-Drive MIH-10 (Petroleum Base)	1
Hydro-Drive MIH-50 (Petroleum Base)	1
Hydrofluoric Acid (Anhydrous)	X
Hydrofluoric Acid (conc.) Cold	X
Hydrofluoric Acid (conc.) Hot	3
Hydrofluorosilicic Acid	1
Hydrogen Bromide (Anhydrous)	X
Hydrogen Chloride (Anhydrous)	X
Hydrogen Chloride gas	1
Hydrogen Cyanide	X
Hydrogen Fluoride	X
Hydrogen Fluoride (Anhydrous)	4
Hydrogen Gas, Cold	1
Hydrogen Gas, Hot	1
Hydrogen Iodide (Anhydrous)	X
Hydrogen Peroxide	1
Hydrogen Peroxide 90%	1
Hydrogen Selenide	X
Hydrogen Sulfide, Dry, Cold	4
Hydrogen Sulfide, Dry, Hot	4
Hydrogen Sulfide, Wet, Cold	4
Hydrogen Sulfide, Wet, Hot	4
Hydrolube-Water/Ethylene Glycol	1
Hydroxycitronellal	1
Hydroquinol	1
Hydroquinone	2
Hydroxyacetic Acid	3
Hydye	4
Hyjet	4
Hyjet IV and IVA	4
Hyjet S4	4
Hyjet W	4
Hypochlorous Acid	1
Indole	1
Industron FF44	1
Industron FF48	1
Industron FF53	1
Industron FF80	1
Insulin	3
Iodic Acid	3
Iodine	1

Iodine Pentafluoride	4
Iodoform	1
Isoamyl Acetate	3
Isoamyl Butyrate	3
Isoamyl Valerate	3
Isoboreol	1
Isobutane	1
Isobutyl Acetate	3
Isobutyl Alcohol	1
Isobutyl Chloride	1
Isobutyl Ether	4
Isobutyl Methyl Ketone	3
Isobutyl n-Butyrate	1
Isobutyl Phosphate	3
Isobutylene	1
Isobutyraldehyde	4
Isobutyric Acid	4
Isocrotyl Chloride	1
Isodecanol	1
Isododecane	1
Isoeugenol	1
Isooctane	1
Isopentane	1
Isophorone (Ketone)	4
Isopropanol	1
Isopropyl Acetate	4
Isopropyl Alcohol	1
Isopropyl Chloride	1
Isopropyl Ether	4
Isopropylacetone	3
Isopropylamine	3
Jet Fuel A	1
JP-10	1
JP-3 (MIL-J-5624)	1
JP-4 (MIL-T-5624)	1
JP-5 (MIL-T-5624)	1
JP-6 (MIL-J-25656)	1
JP-8 (MIL-T-83133)	1
JP-9 (MIL-F-81912)	1
JP-9 -11	1
JPX (MIL-F-25604)	4
Kel F Liquids	2
Kerosene (Similar to RP-1 and JP-1)	1
Keystone #87HX-Grease	1
Lacquer Solvents	4



Lacquers	4
Lactams-Amino Acids	4
Lactic Acid, Cold	1
Lactic Acid, Hot	1
Lactones (Cyclic Esters)	4
Lard Animal Fat	1
Lauric Acid	1
Lavender Oil	1
LB 135	1
Lead (Molten)	X
Lead Acetate	4
Lead Arsenate	3
Lead Azide	X
Lead Bromide	3
Lead Carbonate	3
Lead Chloride	3
Lead Chromate	3
Lead Dioxide	3
Lead Linoleate	3
Lead Naphthenate	X
Lead Nitrate	X
Lead Oxide	3
Lead Sulfamate	1
Lehigh X1169	1
Lehigh X1170	1
Light Grease	1
Ligroin (Petroleum Ether or Benzene)	1
Lime Bleach	1
Lime Sulfur	1
Lindol, Hydraulic Fluid (Phosphate ester	2
Linoleic Acid	2
Linseed Oil	1
Liquid Oxygen (LOX)	4
Liquid Petroleum Gas (LPG)	1
Liquimoly	1
Lithium Bromide (Brine)	3
Lithium Carbonate	3
Lithium Chloride	3
Lithium Citrate	3
Lithium Hydroxide	3
Lithium Hypochlorite	3
Lithium Nitrate	3
Lithium Nitrite	3
Lithium Perchlorate	3
Lithium Salicylate	3

Lithopone	3
Lubricating Oils (Crude & Refined)	1
Lubricating Oils (Synthetic base)	1
Lubricating Oils, Di-ester	1
Lubricating Oils, petroleum base	1
Lubricating Oils, SAE 10, 20, 30, 40, 50	1
Lye Solutions	2
Magnesium Chloride	1
Magnesium Hydroxide	1
Magnesium Salts	1
Magnesium Sulfit and Sulfate	1
Magnesium Trisilicate	X
Malathion	1
Maleic Acid	1
Maleic Anhydride	4
Maleic Hydrazide	3
Malic Acid	1
Mandelic Acid	3
Manganese Acetate	3
Manganese Carbonate	3
Manganese Chloride	3
Manganese Dioxide	3
Manganese Gluconate	3
Manganese Hypophosphite	3
Manganese Linoleate	3
Manganese Naphthenate	X
Manganese Phosphate	3
Manganese Sulfate	3
Manganous Chloride	3
Manganous Phosphate	3
Manganous Sulfate	3
Mannitol	3
MCS 312	1
MCS 352	4
MCS 463	4
MDI (Methylene di-p-phenylene isocyanate)	3
Mercaptan	1
Mercaptobenzothiazole (MBT)	1
Mercuric Acetate	3
Mercuric Chloride	1
Mercuric Cyanide	3
Mercuric Iodide	3
Mercuric Nitrate	3
Mercuric Sulfate	3
Mercuric Sulfite	3

Mercurous Nitrate	3
Mercury	1
Mercury Chloride	3
Mercury Fulminate	3
Mercury Salts	3
Mercury Vapors	1
Mesityl Oxide (Ketone)	4
Meta-Cresol	1
Metaldehyde	3
Meta-Nitroaniline	3
Meta-Toluidine	1
Methacrylic Acid	3
Methallyl Chloride	1
Methane	1
Methanol	4
Methoxychlor	X
Methoxyethanol (DGMMA)	3
Methyl Abietate	1
Methyl Acetate	4
Methyl Acetoacetate	4
Methyl Acetophenone	1
Methyl Acrylate	4
Methyl Alcohol	4
Methyl Amylketone	3
Methyl Anthranilate	1
Methyl Benzoate	1
Methyl Bromide	1
Methyl Butyl Ketone	4
Methyl Butyrate Cellosolve	3
Methyl Butyrate Chloride	3
Methyl Carbonate	1
Methyl Cellosolve	4
Methyl Cellulose	4
Methyl Chloride	1
Methyl Chloroacetate	3
Methyl Chloroform	1
Methyl Chloroformate	1
Methyl Chlorosilanes	X
Methyl Cyanide (Acetonitrile)	3
Methyl Cyclohexanone	1
Methyl Dichloride	1
Methyl Ether	1
Methyl Ethyl Ketone (MEK)	4
Methyl Ethyl Ketone Peroxide	4
Methyl Ethyl Oleate	1

Methyl Formate	X
Methyl Hexyl Ketone (2-Octanone)	3
Methyl Iodide	1
Methyl Isobutyl Ketone (MIBK)	4
Methyl Isocyanate	3
Methyl Isopropyl Ketone	4
Methyl Isovalerate	1
Methyl Lactate	3
Methyl Mercaptan	X
Methyl Methacrylate	4
Methyl Oleate	1
Methyl Pentadiene	1
Methyl Phenylacetate	1
Methyl Salicylate	X
Methyl Tertiary Butyl Ether (MTBE)	3
Methyl Valerate	1
Methyl-2-Pyrrolidone or n-Methyl-2-Pyrrol	X
Methylacrylic Acid	3
Methylal	X
Methylamine	3
Methylamyl Acetate	3
Methylcyclopentane	1
Methylene Bromide	1
Methylene Chloride	2
Methylene Iodide	1
Methylglycerol	3
Methylisobutyl Carbinol	1
Methylpyrrolidine	1
Methylpyrrolidone	1
Methylsulfuric Acid	3
MIL-A-6091	1
MIL-C-4339	1
MIL-C-7024	1
MIL-C-8188	2
MIL-E-9500	1
MIL-F-16884	1
MIL-F-17111	1
MIL-F-25558 (RJ-1)	1
MIL-F-25656	1
MIL-F-5566	1
MIL-F-81912 (JP-9)	1
MIL-F-82522 (RJ-4)	1
MIL-G-10924	1
MIL-G-15793	1
MIL-G-21568	1

MIL-G-25013	1
MIL-G-25537	1
MIL-G-25760	1
MIL-G-3278	1
MIL-G-3545	1
MIL-G-4343	1
MIL-G-5572	1
MIL-G-7118	1
MIL-G-7187	1
MIL-G-7421	1
MIL-G-7711	1
MIL-H-13910	1
MIL-H-19457	1
MIL-H-22251	X
MIL-H-27601	1
MIL-H-46170 -15°F to +400°F	1
MIL-H-46170 -20°F to +275°F	1
MIL-H-46170 -55°F to +275°F	1
MIL-H-46170 -65°F to +275°F	1
MIL-H-5606 -65°F to +235°F	1
MIL-H-5606 -65°F to +275°F	1
MIL-H-6083	1
MIL-H-7083	2
MIL-H-8446 (MLO-8515)	1
MIL-J-5161	1
Milk	1
MIL-L-15016	1
MIL-L-15017	1
MIL-L-17331	1
MIL-L-2104	1
MIL-L-21260	1
MIL-L-23699	1
MIL-L-25681	1
MIL-L-3150	1
MIL-L-6081	1
MIL-L-6082	1
MIL-L-6085	1
MIL-L-6387	1
MIL-L-7808	1
MIL-L-7870	1
MIL-L-9000	1
MIL-L-9236	1
MIL-O-3503	1
MIL-P-27402	X
MIL-R-25576 (RP-1)	1

MIL-S-3136, Type I Fuel	1
MIL-S-3136, Type II Fuel	1
MIL-S-3136, Type III Fuel	1
MIL-S-3136, Type IV Oil High Swell	1
MIL-S-3136, Type IV Oil Low Swell	1
MIL-S-3136, Type V Oil Medium Swell	1
MIL-S-81087	1
MIL-T-5624, JP-4, JP-5	1
MIL-T-83133	1
Mineral Oils	1
Mixed Acids	3
MLO-7277 Hydr.	1
MLO-7557	1
MLO-8200 Hydr.	1
MLO-8515	1
Mobil 24dte	1
Mobil 254 Lubricant	X
Mobil Delvac 1100, 1110, 1120, 1130	1
Mobil HF	1
Mobil Nivac 20, 30	1
Mobil SHC 500 Series	1
Mobil SHC 600 Series	1
Mobil Therm 600	1
Mobil Velocite c	1
Mobilgas WA200 ATF	1
Mobilgear 600 Series	1
Mobilgear SHC ISO Series	1
Mobilgrease HP	1
Mobilgrease HTS	1
Mobilgrease SM	1
Mobilith AW Series	1
Mobilith SHC Series	1
Mobiljet II Lubricant	X
Mobilmistlube Series	1
Mobiloil SAE 20	1
Mobilux	1
Molybdenum Disulfide Grease	1
Molybdenum Oxide	3
Molybdenum Trioxide	3
Molybdic Acid	3
Monobromobenzene	1
Monobromotoluene	1
Monobutyl Paracresol	X
Monochloroacetic Acid	3
Monochlorobenzene	1

Monochlorobutene	1
Monochlorohydrin	X
Monoethanolamine (MEA)	4
Monoethyl Amine	3
Monoisopropylamine	3
Monomethyl Aniline	2
Monomethyl Ether (Dimethyl Ether)	X
Monomethyl Ether (Methyl Ether)	1
Monomethyl Hydrazine	X
Monomethylamine (MMA)	3
Monomethylaniline	2
Mononitrotoluene	3
Mononitrotoluene & Dinitrotoluene (40/60	3
Monovinyl Acetylene	1
Mopar Brake Fluid	4
Morpholine	1
Motor Oils	1
Mustard Gas	X
Myristic Acid	1
Naphthalene	1
Naphthalene Chloride	1
Naphthalene Sulfonic Acid	1
Naphthalenic Acid	1
Naphthalonic Acid	1
Naphthenic Acid	1
Naphthylamine	X
Naptha	1
Natural Gas	1
Neatsfoot Oil	1
Neon	1
Neville Acid	1
Nickel Acetate	4
Nickel Ammonium Sulfate	3
Nickel Chloride	1
Nickel Cyanide	3
Nickel Nitrate	3
Nickel Salts	1
Nickel Sulfate	1
Nicotinamide (Niacinamide)	1
Nicotinamide Hydrochloride	3
Nicotine	1
Nicotine Sulfate	3
Niter Cake	1
Nitric Acid, Red Fuming	2
Nitric Acid, White Fuming	X

Nitric Acid (0 - 50%)	1
Nitric Acid (50 - 100%)	3
Nitric Acid 3 Molar to 158°F	3
Nitric Acid Concentrated Room Temp.	2
Nitric Acid Concentrated to 158°F	4
Nitroaniline	3
Nitrobenzene	2
Nitrobenzoic Acid	3
Nitrocellulose	3
Nitrochlorobenzene	3
Nitrochloroform	3
Nitrodiethylaniline	3
Nitrodiphenyl Ether	X
Nitroethane	4
Nitrofluorobenzene	3
Nitrogen	1
Nitrogen Oxides	3
Nitrogen Tetroxide (N <sub>2</sub> O <sub>4</sub> )	4
Nitrogen Trifluoride	X
Nitroglycerine	3
Nitroglycerol	3
Nitroisopropylbenzene	3
Nitromethane	4
Nitrophenol	3
Nitropropane	4
Nitrosyl Chloride	X
Nitrosylsulfuric Acid	X
Nitrothiophene	3
Nitrotoluene	3
Nitrous Acid	3
Nitrous Oxide	1
Nonane	1
Noryl GE Phenolic	X
Nyvac FR200 Mobil	1
Octachloro Toluene	1
Octadecane	1
Octanal (n-Octanaldehyde)	1
Octane or n-Octane	1
Octyl Acetate	3
Octyl Alcohol	1
Octyl Chloride	1
Octyl Phthalate	1
Olefins	1
Oleic Acid	2
Oleum (Fuming Sulfuric Acid)	1



Oleum Spirits	1
Oleyl Alcohol	1
Olive Oil	1
Oronite 8200	1
Oronite 8515	1
Ortho-Chloro Ethyl Benzene	1
Ortho-Chloroaniline	3
Ortho-Chlorophenol	3
Ortho-Cresol	3
Ortho-Dichlorobenzene	1
Ortho-Nitrotoluene	3
Orthophos Acid	X
OS 45 Type III (OS45)	1
OS 45 Type IV (OS45-1)	1
OS 70	1
Oxalic Acid	1
Oxygen, 200°-300°F (Evalute for specific	2
Oxygen, 300°-400°F (Evalute for specific	2
Oxygen, Cold (Evalute for specific applic	1
Oxygen, Liquid	4
Ozonated Deionized Water	3
Ozone	1
Paint Thinner, Duco	2
Palmitic Acid	1
Para-Aminobenzoic Acid	3
Para-Aminosalicylic Acid	3
Para-BromobenzyIphenyl Ether	X
Para-Chlorophenol	3
Paracymene	1
Para-Dichlorobenzene	1
Paraffins	1
Para-Formaldehyde	3
Paraldehyde	3
Par-al-Ketone	4
Para-Nitroaniline	3
Para-Nitrobenzoic Acid	3
Para-Nitrophenol	3
Parathion	1
Para-Toluene Sulfonic Acid	3
Parker O Lube	1
Peanut Oil	1
Pectin (Liquor)	1
Pelagonic Acid	X
Penicillin (Liquid)	1
Pentachloroethane	1

Pentachlorophenol	3
Pentaerythritol	3
Pentaerythritol Tetranitrate	3
Pentafluoroethane (F-125)	X
Pentane or n-Pentane	1
Pentane, 2 Methyl	1
Pentane, 2-4 dimethyl	1
Pentane, 3-Methyl	1
Pentoxone	X
Pentyl Pentanoate	1
Peracetic Acid	3
Perchloric Acid - 2N	1
Perchloroethylene	1
Perfluoropropane	X
Perfluorotriethylamine	X
Permanganic Acid	X
Persulfuric Acid (Caro's Acid)	X
Petrolatum	1
Petrolatum Ether	1
Petroleum Oil, Above 250°F	2
Petroleum Oil, Below 250°F	1
Petroleum Oil, Crude	1
Phenol	1
Phenol, 70% / 30% H <sub>2</sub> O	1
Phenol, 85% / 15% H <sub>2</sub> O	1
Phenolic Sulfonate	3
Phenolsulfonic Acid	3
Phenylacetamide	1
Phenylacetate	3
Phenylacetic Acid	3
Phenylbenzene	1
Phenylene Diamine	X
Phenylethyl Alcohol	1
Phenylethyl Ether	4
Phenylethyl Malonic Ester	1
Phenylglycerine	3
Phenylhydrazine	1
Phenylhydrazine Hydrochloride	3
Phenylmercuric Acetate	3
Phorone	4
Phosgene	X
Phosphine	X
Phosphoric Acid 3 Molar to 158°F	1
Phosphoric Acid Concentrated Room Ter	1
Phosphoric Acid Concentrated to 158°F	1

Phosphoric Acid, 20%	X
Phosphoric Acid, 45%	X
Phosphorus (Molten)	X
Phosphorus Oxychloride	X
Phosphorus Trichloride	1
Phosphorus Trichloride Acid	1
Phthalic Acid	3
Phthalic Anhydride	3
Pickling Solution	2
Picric Acid (aq)	1
Picric Acid Molten	1
Pine Oil	1
Pine Tar	1
Pinene	1
Piperazine	1
Piperidine	1
Piranha (H <sub>2</sub> SO <sub>4</sub> :H <sub>2</sub> O <sub>2</sub> )(70:30)	X
Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,A	1
Plating Solutions Chrome	1
Plating Solutions Others	1
Pneumatic Service	1
Polyethylene Glycol	3
Polyglycerol	3
Polyglycol	3
Polyvinyl Acetate Emulsion	X
Potassium (Molten)	X
Potassium Acetate	4
Potassium Acid Sulfate	3
Potassium Alum	3
Potassium Aluminum Sulfate	3
Potassium Antimonate	3
Potassium Bicarbonate	3
Potassium Bichromate	3
Potassium Bifluoride	3
Potassium Bisulfate	3
Potassium Bisulfite	3
Potassium Bitartrate	3
Potassium Bromide	3
Potassium Carbonate	3
Potassium Chlorate	3
Potassium Chloride	1
Potassium Chromates	3
Potassium Citrate	3
Potassium Cupro Cyanide	1
Potassium Cyanate	3

Potassium Cyanide	1
Potassium Dichromate	1
Potassium Diphosphate	3
Potassium Ferricyanide	3
Potassium Fluoride	3
Potassium Glucocyanate	3
Potassium Hydroxide 50%	4
Potassium Hypochlorite	3
Potassium Iodate	3
Potassium Iodide	3
Potassium Metabisulfate	3
Potassium Metachromate	3
Potassium Metasilicate	X
Potassium Monochromate	3
Potassium Nitrate	1
Potassium Nitrite	3
Potassium Oxalate	3
Potassium Perchlorate	3
Potassium Perfluoro Acetate	X
Potassium Permanganate	3
Potassium Peroxide	X
Potassium Persulfate	3
Potassium Phosphate (Acid)	3
Potassium Phosphate (Alkaline)	3
Potassium Phosphate (Di/Tri Basic)	3
Potassium Pyrosulfate	3
Potassium Salts	1
Potassium Silicate	X
Potassium Sodium Tartrate	3
Potassium Stannate	3
Potassium Stearate	3
Potassium Sulfate	1
Potassium Sulfide	3
Potassium Sulfite	1
Potassium Tartrate	3
Potassium Thiocyanate	3
Potassium Thiosulfate	3
Potassium Triphosphate	3
Prestone Antifreeze	1
PRL-High Temp. Hydr. Oil	1
Producer Gas	1
Propane	1
Propionaldehyde	3
Propionic Acid	3
Propionitrile	1

Propyl Acetate	4
Propyl Acetone or n-Propyl Acetone	4
Propyl Alcohol	1
Propyl Nitrate	4
Propyl Propionate	3
Propylamine	3
Propylbenzene	1
Propylene	1
Propylene Chloride	1
Propylene Chlorohydrin	1
Propylene Dichloride	1
Propylene Glycol	3
Propylene Imine	1
Propylene Oxide	4
Pydraul 90e	1
Pydraul, 10E	4
Pydraul, 115E	1
Pydraul, 230C, 312C, 540C, A200	1
Pydraul, 29ELT 30E, 50E, 65E	1
Pyranol Transformer Oil	1
Pyridine	1
Pyridine Oil	4
Pyridine Sulfate	3
Pyridine Sulfonic Acid	3
Pyrogallol (Pyrogallic Acid)	1
Pyrogard 42, 43, 55	1
Pyrogard 53, Mobil Phosphate Ester	1
Pyrogard D, Mobil Water-in-Oil Emulsion	4
Pyroligneous Acid	4
Pyrolube	1
Pyrosulfuric Acid	3
Pyrosulfuryl Chloride	1
Pyrrole	4
Pyruvic Acid	3
Quinidine	1
Quinine	1
Quinine Bisulfate	3
Quinine Hydrochloride	3
Quinine Sulfate	3
Quinine Tartrate	3
Quinizarin	1
Quinoline	1
Quinone	1
Radiation (Gamma, 1.0 E+07 Rads)	4
Raffinate	1

Rapeseed Oil	1
Red Line 100 Oil	1
Red Oil (MIL-H-5606)	1
Resorcinol	3
Rhodium	X
Riboflavin	1
Ricinoleic Acid	1
RJ-1 (MIL-F-25558)	1
RJ-4 (MIL-F-82522)	1
Rosin	1
RP-1 (MIL-R-25576)	1
Saccharin Solution	3
Sal Ammoniac	1
Salicylic Acid	1
Santo Safe 300	1
Sea (Salt) Water	1
Sebacic Acid	3
Selenic Acid	3
Selenous Acid	3
Sewage	1
SF 1154 GE Silicone Fluid	1
SF1147 GE Silicone Fluid	1
SF96 GE Silicone Fluid	1
Shell 3XF Mine Fluid (Fire resist hydr.)	1
Shell Alvania Grease #2	1
Shell Carnea 19 and 29	1
Shell Diala	1
Shell Irus 905	1
Shell Lo Hydrax 27 and 29	1
Shell Macome 72	1
Shell Tellus #32 Pet. Base	1
Shell Tellus #68	1
Shell Tellus 27 (Petroleum Base)	1
Shell Tellus 33	1
Shell UMF (5% Aromatic)	1
Shellac	3
Silane	X
Silicate Esters	1
Silicon Fluoride	X
Silicon Tetrachloride	X
Silicon Tetrafluoride	X
Silicone Greases	1
Silicone Oils	1
Silver Bromide	3
Silver Chloride	3

Silver Cyanide	3
Silver Nitrate	1
Silver Sulfate	3
Sinclair Opaline CX-EP Lube	1
Skelly, Solvent B, C, E	1
Skydrol 500 B4	4
Skydrol 7000	2
Skydrol LD-4	4
Soap Solutions	1
Socony Mobile Type A	1
Socony Vacuum AMV AC781 (Grease)	1
Socony Vacuum PD959B	1
Soda Ash	1
Sodium (Molten)	X
Sodium Acetate	4
Sodium Acid Bisulfate	3
Sodium Acid Fluoride	3
Sodium Acid Sulfate	3
Sodium Aluminate	3
Sodium Aluminate Sulfate	3
Sodium Anthraquinone Disulfate	3
Sodium Antimonate	3
Sodium Arsenate	3
Sodium Arsenite	3
Sodium Benzoate	3
Sodium Bicarbonate (Baking Soda)	1
Sodium Bichromate	3
Sodium Bifluoride	3
Sodium Bisulfate or Bisulfite	1
Sodium Bisulfide	3
Sodium Bitartrate	3
Sodium Borate	1
Sodium Bromate	3
Sodium Bromide	3
Sodium Carbonate (Soda Ash)	1
Sodium Chlorate	3
Sodium Chloride	1
Sodium Chlorite	3
Sodium Chloroacetate	3
Sodium Chromate	3
Sodium Citrate	3
Sodium Cyanamide	3
Sodium Cyanate	3
Sodium Cyanide	X
Sodium Diacetate	3

Sodium Diphenyl Sulfonate	3
Sodium Diphosphate	3
Sodium Disilicate	3
Sodium Ethylate	3
Sodium Ferricyanide	3
Sodium Ferrocyanide	3
Sodium Fluoride	3
Sodium Fluorosilicate	3
Sodium Glutamate	3
Sodium Hydride	X
Sodium Hydrogen Sulfate	3
Sodium Hydrosulfide	3
Sodium Hydrosulfite	3
Sodium Hydroxide, 3 Molar	2
Sodium Hypochlorite	1
Sodium Hypophosphate	3
Sodium Hypophosphite	3
Sodium Hyposulfite	3
Sodium Iodide	3
Sodium Lactate	3
Sodium Metaphosphate	1
Sodium Metasilicate	3
Sodium Methylate	3
Sodium Monophosphate	3
Sodium Nitrate	X
Sodium Oleate	3
Sodium Orthosilicate	3
Sodium Oxalate	3
Sodium Perborate	1
Sodium Percarbonate	3
Sodium Perchlorate	3
Sodium Peroxide	1
Sodium Persulfate	3
Sodium Phenolate	3
Sodium Phenoxide	3
Sodium Phosphate (Dibasic)	1
Sodium Phosphate (Mono)	1
Sodium Phosphate (Tribasic)	1
Sodium Plumbite	3
Sodium Pyrophosphate	3
Sodium Resinate	3
Sodium Salicylate	3
Sodium Salts	1
Sodium Sesquisilicate	X
Sodium Silicate	1



Sodium Silicofluoride	X
Sodium Stannate	3
Sodium Sulfate	1
Sodium Sulfide and Sulfite	1
Sodium Sulfoyanide	3
Sodium Tartrate	3
Sodium Tetraborate	3
Sodium Tetrphosphate	3
Sodium Tetrasulfide	3
Sodium Thioarsenate	3
Sodium Thiocyanate	3
Sodium Thiosulfate	1
Sodium Trichloroacetate	3
Sodium Triphosphate	3
Solvesso 100, 150	X
Sorbitol	3
Sour Crude Oil	1
Sour Natural Gas	1
Sovasol No. 1, 2, and 3	1
Sovasol No. 73 and 74	1
Soybean Oil	1
Spry	1
SR-10 Fuel	1
SR-6 Fuel	1
Standard Oil Mobilube GX90-EP Lube	1
Stannic Ammonium Chloride	3
Stannic Chloride	1
Stannic Chloride, 50%	1
Stannic Tetrachloride	3
Stannous Bisulfate	3
Stannous Bromide	3
Stannous Chloride (15%)	1
Stannous Fluoride	3
Stannous Sulfate	3
Stauffer 7700	1
Steam Below 400°F	4
Steam, 400° - 500°F	4
Steam, Above 500°F	X
Stearic Acid	X
Stoddard Solvent	1
Strontium Acetate	3
Strontium Carbonate	3
Strontium Chloride	3
Strontium Hydroxide	3
Strontium Nitrate	3

Styrene (Monomer)	2
Succinic Acid	3
Sucrose Solutions	1
Sulfamic Acid	3
Sulfanilic Acid	3
Sulfanilic Chloride	1
Sulfanilimide	1
Sulfite Liquors	3
Sulfolane	2
Sulfonated Oils	1
Sulfonic Acid	3
Sulfonyl Chloride	3
Sulfur	1
Sulfur (Molten)	1
Sulfur Chloride	1
Sulfur Dioxide, Dry	4
Sulfur Dioxide, Liquidified under pressure	4
Sulfur Dioxide, Wet	4
Sulfur Hexafluoride	3
Sulfur Liquors	1
Sulfur Monochloride	1
Sulfur Tetrafluoride	X
Sulfur Trioxide Dry	1
Sulfuric Acid (20% Oleum)	3
Sulfuric Acid, 3 Molar to 158°F	1
Sulfuric Acid, Concentrated Room Temp	1
Sulfuric Acid, Concentrated to 158°F	1
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	3
Sulfurous Acid	1
Sunoco #3661	1
Sunoco All purpose grease	1
Sunoco SAE 10	1
Sunsafe (Fire resist. hydr. fluid)	1
Super Shell Gas	1
Surfuryl Chloride	3
Swan Finch EP Lube	1
Swan Finch Hypoid-90	1
Tallow	1
Tannic Acid (10%)	1
Tar, bituminous	1
Tartaric Acid	1
Tellone II	X
Terephthalic Acid	3
Terpineol	1
Terpinyl Acetate	1

Tertiary Amyl Methyl Ether (TAME)	X
Tertiary Butyl Catechol or p-tert-butylcat	1
Tertiary Butyl Mercaptan	1
Tetrabromoethane	1
Tetrabromomethane	1
Tetrabutyl Titanate	1
Tetrachloroethylene	1
Tetrachoroethane	1
Tetraethyl Lead	1
Tetraethyl Lead "Blend"	1
Tetraethyl Orthosilicate (TEOS)	X
Tetrahydrofuran	4
Tetralin	1
Tetramethyl Ammonium Hydroxide	3
Tetramethylcyclotetrasiloxane (TMCTS)	X
Tetramethyldihydropyridine	1
Tetramethyldihydropyridine	1
Tetraphosphoglucosate	3
Tetraphosphoric Acid	X
Texaco 3450 Gear Oil	1
Texaco Capella A and AA	1
Texaco Meropa 220 (No Lead)	1
Texaco Regal B	1
Texaco Uni-Temp Grease	1
Texamatic "A" 1581 Fluid	1
Texamatic "A" 3401 Fluid	1
Texamatic "A" 3525 Fluid	1
Texamatic "A" 3528 Fluid	1
Texamatic "A" Transmission Oil	1
Texas 1500 Oil	1
Therminol 44	1
Therminol 55	1
Therminol 66	X
Therminol FR	X
Therminol VP-1, 60, 65	1
Thio Acid Chloride	X
Thioamyl Alcohol	1
Thiodiacetic Acid	3
Thioethanol	3
Thioglycolic Acid	3
Thiokol TP-90B	1
Thiokol TP-95	1
Thionyl Chloride	1
Thiophene (Thiofuran)	1
Thiophosphoryl Chloride	3

Thiourea	3
Thorium Nitrate	3
Tidewater Multigear, 140 EP Lube	1
Tidewater Oil-Beedol	1
Tin Ammonium Chloride	3
Tin Chloride	1
Tin Tetrachloride	1
Titanic Acid	3
Titanium Dioxide	3
Titanium Sulfate	3
Titanium Tetrachloride	1
Toluene	1
Toluene Bisodium Sulfite	X
Toluene Diisocyanate (TDI)	4
Toluene Sulfonyl Chloride	1
Toluenesulfonic Acid	3
Toluidine	1
Toluol	3
Toluquinone	1
Tolylaldehyde	3
Transformer Oil	1
Transmission Fluid Type A	1
Triacetin	4
Triaryl Phosphate	1
Tribromomethylbenzene	1
Tributoxyethyl Phosphate	1
Tributyl Citrate	3
Tributyl Mercaptan	1
Tributyl Phosphate	4
Tributylamine	X
Trichloroacetic Acid	3
Trichloroacetyl Chloride	1
Trichlorobenzene	1
Trichloroethane	1
Trichloroethanolamine	3
Trichloroethylene	1
Trichloromethane	1
Trichloronitromethane (Chloropicrin)	3
Trichlorophenylsilane	X
Trichloropropane	1
Trichlorosilane	1
Tricresyl Phosphate	2
Triethanol Amine	4
Triethyl Phosphate	1
Triethylaluminum	X

Triethylborane	X
Triethylene Glycol	3
Triethylenetetramine	3
Trifluoroacetic Acid	3
Trifluoroethane	1
Trifluoromethane	1
Trifluorovinylchloride	1
Triisopropylbenzylchloride	1
Trimethylamine	3
Trimethylamine (TMA)	3
Trimethylbenzene	1
Trimethylborate (TMB)	1
Trimethylpentane	1
Trinitrotoluene (TNT)	2
Trioctyl Phosphate	2
Triphenylphosphite	3
Tripoly Phosphate	2
Tripotassium Phosphate	3
Trisodium Phosphate	3
Tritium	X
Tung Oil (China Wood Oil)	1
Tungsten Hexafluoride	X
Tungstic Acid	X
Turbine Oil	1
Turbine Oil #15 (MIL-L-7808A)	1
Turbo Oil #35	1
Turpentine	1
Type I Fuel (MIL-S-3136)(ASTM Ref. Fue	1
Type II Fuel MIL-S-3136	1
Type III Fuel MIL-S-3136(ASTM Ref. Fue	1
Ucon Hydrolube J-4	1
Ucon Lubricant 50-HB-100	1
Ucon Lubricant 50-HB-260	1
Ucon Lubricant 50-HB-5100	1
Ucon Lubricant 50-HB55	1
Ucon Lubricant 50-HB-660	1
Ucon Lubricant LB-1145	1
Ucon Lubricant LB-135	1
Ucon Lubricant LB-285	1
Ucon Lubricant LB-300X	1
Ucon Lubricant LB-625	1
Ucon Lubricant LB-65	1
Ucon Oil 50-HB-280x	3
Ucon Oil Heat Transfer Fluid 500 (Polyall	1
Ucon Oil LB-385	1

Ucon Oil LB-400X	1
Undecylenic Acid	1
Undecylic Acid	1
Univis 40 (Hydr. Fluid)	1
Univolt #35 (Mineral Oil)	1
Unsymmetrical Dimethyl Hydrazine (UDM)	4
UPDI(Ultrapure Deionized Water)	3
Uranium Hexachloride	1
Uranium Hexafluoride	X
Uranium Sulfate	X
Uric Acid	3
Valeraldehyde	3
Valeric Acid	3
Vanadium Oxide	1
Vanadium Pentoxide	1
Varnish	1
Vegetable Oil	1
Versilube F44, F55	1
Versilube F-50	1
Vinegar	3
Vinyl Acetate	3
Vinyl Benzene	1
Vinyl Benzoate	1
Vinyl Chloride	1
Vinyl Fluoride	1
Vinylidene Chloride	1
Vinylpyridine	1
Vitriol (White)	3
VV-H-910	1
Wagner 21B Brake Fluid	4
Water	2
Wemco C	1
Whiskey and Wines	1
White Liquor	1
White Oil	1
White Pine Oil	1
Wolmar Salt	1
Wood Alcohol	4
Wood Oil	1
Xenon	1
Xylene	1
Xylidenes-Mixed-Aromatic Amines	4
Xylol	1
Zeolites	1
Zinc Acetate	4

Zinc Ammonium Chloride	3
Zinc Chloride	1
Zinc Chromate	3
Zinc Cyanide	3
Zinc Diethyldithiocarbamate	3
Zinc Dihydrogen Phosphate	3
Zinc Fluorosilicate	X
Zinc Hydrosulfite	3
Zinc Naphthenate	X
Zinc Nitrate	1
Zinc Oxide	1
Zinc Phenolsulfonate	3
Zinc Phosphate	1
Zinc Salts	1
Zinc Silicofluoride	X
Zinc Stearate	3
Zinc Sulfate	1
Zinc Sulfide	3
Zirconium Nitrate	1