

# BOSS POLYMER TECHNOLOGIES PTY LTD

## INDICATIVE CHEMICAL RESISTANCE OF THERMOSET ELASTOMERS AND RUBBERS

### LEGEND

R - Recommended - Little or minor effect

M - Minor or Moderate Effect - Useful in many applications

S - Moderate or Severe Effect - Parts perhaps still useful in limited applications

N - Not Recommended

Blank Entry - Insufficient Data Available

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Please Note - \*\*\*IT IS ALWAYS BEST TO TEST\*\*\*.

CHEMICAL	NATURAL RUBBER NR (IR)	SBR, BR	EPDM	NITRILE NBR	NEOPRENE CR	HYPALON CSM	SILICONE MQ, VMQ, PVMQ	VITON FKM	ACM
Acetyldehyde	S	N	M	N	S	S	M	N	N
Acetamide	N	N	R	R	M	M	M	S	N
Acetic Acid, Glacial	M	S	M	S	N	S	M	N	N
Acetic Acid, 30%	M	M	R	M	M	R	R	M	N
Acetic Anhydride	M	N	M	N	M	M	S	N	N
Acetone	N	N	R	N	N	S	N	N	N
Acetophenone	N	N	R	N	N	N	N	N	N
Acetyl Chloride	N	N	N	N	N	N	S	R	N
Acetylene	M	M	R	M	M	M	M	R	
Acrylonitrile	N	S	N	N	N	S	N	S	
Adipic Acid				R					
Alkazene (dibromoethylbenzene)			N		N			M	
Alums - NH3 - Cr - K (aq)	R	R	R	R	R	R	R	R	N
Aluminium Acetate (aq)	R	N	R	M	M	N	N	N	N
Aluminium Chloride (aq)	R	R	R	R	R	R	M	R	N
Aluminium Fluoride (aq)	M	R	R	R	R	R	M	R	
Aluminium Nitrate (aq)	R	R	R	R	R	R			
Aluminium Phosphate (aq)	R	R	R	R	R	R	R	R	
Aluminium Sulphate (aq)	R	M	R	R	R	R	R	R	N
Ammonia, Anhydrous	N	N	R	M	R	N	S	N	N
Ammonia Gas (cold)	R	R	R	R	R	R	R	N	N
Ammonia Gas (hot)	N	N	M	N	M	M	R	N	N
Ammonium Carbonate (aq)			R	N	R				
Ammonium Chloride (aq)	R	R	R	R	R	R			
Ammonium Hydroxide (conc)	S	S	R	N	M	N	N	S	N
Ammonium Nitrate (aq)	S	R	R	R	M	R			N
Ammonium Nitrite (aq)	R	R	R	R	R	R	M		
Ammonium Persulphate (aq)	R	N	R	N					N
Ammonium Phosphate (aq)	M	R	R	R	M	R	R		
Ammonium Sulphate (aq)	R	M	R	R	R	R		N	N
Amyl Acetate (banana oil)	N	N	R	N	N	N	N	N	N
Amyl Alcohol	M	M	R	M	M	M	N	M	N
Amyl Borate	N	N	N	R	R				
Amyl Chloronaphthalene	N	N	N	N	N	N	N	R	N
Amyl Naphthalene	N	N	N	N	N	N	N	R	
Aniline	N	N	M	N	N	N	N	S	N
Aniline Dyes	M	M	M	N	M	M	S	M	N
Aniline Hydrochloride	M	S	M	M	N	N	S	M	N
Animal Fats	N	N	M	R	M	M	M	R	R
Ansul Ether (anaesthetics)	N	N	S	S	N	N	N	N	N
Aqua Regia	N	N	S		N	S		M	

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Arsenic Acid	M	R	R	R	R	R	R	R	S
Arsenic Trichloride (aq)				R	M	M	M	R	N
Askarel	N	N	N	M	N	N	N	R	N
Asphalt	N	N	N	M	S	N	N	R	N
Banana Oil (Amyl acetate)	N	N	R	N	N	N	N	N	N
Barium Chloride (aq)	R	R	R	R	R	R	R	R	N
Barium Hydroxide (aq)	R	R	R	R	R	R	R	R	N
Barium Sulphate (aq)	R	R	R	R	R	R	R	R	N
Barium Sulphide (aq)	R	M	R	R	R	R	R	R	N
Beer	R	R	R	R	R	R	R	R	N
Beet Sugar Liquors	R	R	R	R	M	R	R	R	N
Benzaldehyde	N	N	R	N	N	N	N	N	N
Benzene	N	N	N	N	N	N	N	R	N
Benzene Sulphonic Acid	N	N	N	N	M	R	N	R	N
Benzene (Ligroin)	N	N	N	R	S	S	N	R	R
Benzoic Acid	N	N	N	N	N	N	N	R	N
Benzyl Chloride	N	N	N	N	N	N	N	R	N
Benzyl Alcohol	N	N	M	N	M	M		R	N
Benzyl Benzoate	N	N	M	N	N	N		R	N
Blast Furnace Gas	N	N	N	N	N	N	R	R	N
Borax	M	M	R	M	N	N	M	R	M
Bordeaux Mixture	M	M	R	M	M	R	M	R	N
Boric Acid	R	R	R	R	R	R	R	R	N
Brine	R	R	R	R	M	R	R	R	N
Bromine - Anhydrous	N	N	N	N	N	N		R	N
Bromine Trifluoride	N	N	N	N	N	N	N	N	N
Bromine Water	N	N	N	N	N	N	N	R	N
Bromobenzene	N	N	N	N	N	N	N	R	N
Bunker Oil	N	N	N	R	N	N	M	R	R
Butadiene monomer	N	N	N	N	N	N	N	R	N
Butane	N	N	N	R	R	M	N	R	R
Butter	N	N	M	R	M	M	M	R	R
Butyl Acetate	N	N	M	N	N	N	N	N	N
Butyl Acetyl Ricinoleate	N	N	R	M	M	M		R	N
Butyl Acrylate	N	N	N	N	N	N		N	N
Butyl Alcohol	R	R	M	R	R	R	M	R	N
Butyl Amine	N	N	N	S	N	N	M	N	N
Butyl Benzoate	N	N	R	N	N	N		R	N
Butyl Carbitol	N	N	R	N	S	N	N	S	N
Butyl Cellosolve	N	N	M	S	S	N		N	N
Butyl Oleate	N	N	M	N	N	N		R	
Butyl Stearate	N	N	N	M	N	N		R	
Butylene	N	N	N	M	S	N	N	R	N
Butyraldehyde	N	N	M	N	N	N	N	N	N

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Calcium Acetate	M	M	R	M	M	N	N	N	N
Calcium Bisulphite	N	N	N	R	R	R	R	R	N
Calcium Chloride	R	R	R	R	R	R	R	R	R
Calcium Hydroxide	R	R	R	R	R	R	R	R	N
Calcium Hypochlorite	N	N	R	S	S	R	M	R	N
Calcium Nitrate	R	R	R	R	R	R	R	M	R
Calcium Sulphide	M	M	R	M	R	R	M	R	N
Cane Sugar Liquors	R	R	R	R	R	R	R	R	N
Carbamate	N	N	M	S	M	M		R	N
Carbitol	M	M	M	M	M	M	M	M	N
Carbolic Acid (phenol)	N	N	M	N	N	N	N	R	N
Carbon Bisulphide	N	N	N	N	N	N	N	R	S
Carbon Dioxide	M	M	M	R	M	M	M	M	
Carbonic Acid	R	M	R	M	M	R	R	R	R
Carbon Monoxide	M	M	R	R	M	M	R	R	
Carbon Tetrachloride	N	N	N	S	N	N	N	R	N
Castor Oil	R	R	M	R	R	R	R	R	R
Cellosolve	N	N	M	N	N	N	N	N	N
Cellosolve Acetate	N	N	M	N	N	N	N	N	N
Cellulube	N	N	R	N	N	N	R	R	N
Chlorine (dry)	N	N	M	N	N	N	N	M	N
Chlorine (wet)	N	N	M	N	N	N	N	M	N
Chlorine Dioxide	N	N	S	N	N	S		R	N
Chlorine Trifluoride	N	N	N	N	N	N	N	N	N
Chloroacetone	N	N	R	N	N	N	N	N	N
Chloroacetic Acid	N	N	M	N	N	N		N	N
Chlorobenzene	N	N	N	N	N	N	N	R	N
Chlorobromomethane	N	N	M	N	N	N	N	R	N
Chlorobutadiene	N	N	N	N	N	N	N	R	N
Chlorodecane	N	N	N	N	N	N	N	R	N
Chloroform	N	N	N	N	N	N	N	R	N
o-Chloronaphthalene	N	N	N	N	N	N	N	R	N
1-Chloro 1-nitroethane	N	N	N	N	N	N	N	S	N
Chlorosulphonic Acid	N	N	N	N	N	N	N	N	N
Chlorotoluene	N	N	N	N	N	N	N	R	N
Chrome Plating Solutions	N	N	M	N	N	N	M	R	N
Chromic Acid	N	N	S	N	N	N	S	R	N
Citric Acid	R	R	R	R	R	R	R	R	
Cobalt Chloride	R	R	R	R	R	R	M	R	N
Coconut Oil	N	N	S	R	S	S	R	R	R
Chlorox (Sodium hypochlorite)	N	N	M	M	M	M		R	N
Coal Tar (Creosote)	N	N	N	R	M	N	N	R	R
Cod Liver Oil	N	N	R	R	M	M	M	R	R
Coke Oven Gas	N	N	N	N	N	N	M	R	N

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Copper Acetate (aq)			R	M	M	N	N	N	N
Copper Chloride (aq)	R	R	R	R	M	M	R	R	N
Copper Cyanide (aq)	R	R	R	R	R	R	R	R	N
Copper Sulphate (aq)	M	M	R	R	R	R	R	R	N
Corn Oil	N	N	S	R	S		R	R	R
Cottonseed Oil	N	N	S	R	S		R	R	R
Creosote (Coal Tar)	N	N	N	R	M	N	N	R	R
Cresol	N	N	N	N	N	N	N	R	N
Cresylic Acid	N	N	N	N	N	N	N	R	N
Cumene	N	N	N	N	N	N	N	R	N
Cyclohexane	N	N	N	R	S	N	N	R	M
Cyclohexanol	N	N	N	R	M	M	N	R	
Cyclohexanone	N	N	M	N	N	N	N	N	N
p-Cymene	N	N	N	N	N	N	N	R	N
Decalin	N	N	N	N	N	N	N	R	
Decane	N	N	N	R	S	S	M	R	R
Denatured Alcohol	R	R	R	R	R	R	R	R	N
Detergent Solutions	M	M	R	R	M	R	R	R	N
Developing Fluids	R	M	M	R	R	R		R	
Diacetone	N	N	R	N	N	N	N	N	N
Diacetone Alcohol	N	N	R	N	N	N	N	N	N
Dibenzyl Ether	N	N	M	N	N	N		N	
Dibenzyl Sebacate	N	N	M	N	N	N	S	M	N
Dibutylamine	N	N	N	N	S	N	S	N	N
Dibutyl Ether	N	N	S	N	N	N	N	S	S
Dibutyl Phthalate	N	N	M	N	N	N		S	N
Dibutyl Sebacate	N	N	M	N	N	N	M	M	N
o-Dichlorobenzene	N	N	N	N	N	N	N	R	N
Dichloro isopropyl ether	N	N	S	N	N	N	N	S	S
Dicyclohexylamine	N	N	N	S	N	N	N	N	N
Diesel Oil	N	N	N	R	S	S	N	R	R
Diethylamine	M	M	M	M	M	S	M	N	N
Diethyl Benzene	N	N	N	N	N	N	N	R	
Diethyl Ether	N	N	N	N	S	N	N	N	S
Diethylene Glycol	R	R	R	R	R	R	M	R	N
Diethyl Sebacate	N	N	M	N	N	N	M	M	N
Diisobutylene	N	N	N	M	N	N	N	R	N
Diisopropyl Benzene	N	N	N	N	N	N		R	
Diisopropyl Ketone	N	N	R	N	N	N	N	N	N
Diisopropylidene Acetone (Phorone)	N	N	R	N	N	N	N	N	N
Dimethyl Ether (Methyl ether)	R	R	R	R	S	N	R	R	N
Dimethyl aniline (xylydene)	N	N	N	S	N	N	N	N	N
Dimethyl formamide (DMF)			R	N			M	N	

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Dimethyl Phthalate	N	N	M	N	N	N		M	N
Dinitrotoluene	N	N	N	N	N	N	N	N	N
Diocetyl Phthalate	N	N	M	N	N	N	S	M	N
Diocetyl Sebacate	N	N	M	N	N	N	S	M	N
Dioxane	N	N	M	N	N	N	N	N	N
Dioxolane	N	N	M	N	N	N	N	N	N
Dipentene	N	N	N	M	N	N	N	R	N
Diphenyl (Phenylbenzene)	N	N	N	N	N	N	N	R	N
Diphenyl Oxides	N	N	N	N	N	N	S	R	N
Dowtherm Oil	N	N	N	N	N	N	N	R	N
Dry Cleaning Fluids	N	N	N	S	N	N	N	R	N
Epichlorohydrin	N	N	M	N	N	N	N	N	N
Ethane	N	N	N	R	M	M	N	R	R
Ethanolamine	M	M	M	M	M	S	M	N	N
Ethyl Acetate	N	N	M	N	N	N	M	N	N
Ethyl Acetoacetate	S	S	M	N	S	N	M	N	N
Ethyl Acrylate	N	N	M	N	N	N	M	N	N
Ethyl Alcohol	R	R	R	S	R	R	M	S	N
Ethyl Benzene	N	N	N	N	N	N	N	R	N
Ethyl Benzoate	N	N	N	N	N	N	N	R	N
Ethyl Cellosolve	N	N	M	N	N	N	N	N	N
Ethyl Cellulose	M	M	M	M	M	M	M	N	N
Ethyl Chloride	R	M	R	R	R	N	N	R	S
Ethyl Chlorocarbonate	N	N	N	N	N	N	N	R	N
Ethyl Chloroformate	N	N	N	N	N	N	N	R	N
Ethyl Ether	N	N	S	S	N	N	N	N	N
Ethyl Formate	N	N	M	N	M	M		R	
Ethyl Mercaptan	N	N		N	S	S	S	M	
Ethyl Oxalate	N	N	N	N	N	N	N	R	N
Ethyl Pentachlorobenzene	N	N	N	N	N	N	N	R	N
Ethyl Silicate	M	M	R	R	R	M		R	
Ethylene				R				R	
Ethylene Chloride	N	N	N	N	N	N	N	M	N
Ethylene Chlorohydrin	M	M	M	N	M	M	S	R	N
Ethylene Diamine	R	M	R	R	R	M	R	N	N
Ethylene Dichloride	N	N	S	N	N	N	N	R	N
Ethylene Glycol	R	R	R	R	R	R	R	R	N
Ethylene Oxide	N	N	S	N	N	N	N	N	N
Ethylene Trichloride	N	N	S	N	N	N	N	R	N
Fatty Acids		N	S	M	M	N		R	
Ferric Chloride	R	R	R	R	M	M	M	R	R
Ferric Nitrate	R	R	R	R	R	R	M	R	R
Ferric Sulphate	R	R	R	R	R	R	M	R	R

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Fish Oil				R			R	R	
Fluoro Boric Acid	R	R	R	R	R				
Fluorine (liq)			S				N	M	
Fluorobenzene	N	N	N	N	N	N	N	R	
Fluorocarbon Oils			R						
Fluorolube		N	R	R	R	R	R	M	
Fluorinated Cyclic Ethers			R						
Fluorosilicic Acid	R			R	R	R			
Formaldehyde	M	S	M	S	S	S	M	N	N
Formic Acid	R	R	R	M	R	R	N	S	
Freon 11	N	N	N	M	S	R	N	M	
Freon 12	M	R	M	R	R	R	N	R	
Freon 13	R	R	R	R	R	R	N	R	
Freon 21	N	N	N	N	M	N	N	N	
Freon 22	R	R	R	N	R	R	N	N	
Freon 31	M	M	R	N	R	M		N	
Fuel Oil	N	N	N	R	M	S	N	R	R
Fumaric Acid	R	M		R	M	M	M	R	N
Furan, Furfuran	N	N		N	N	N			
Furfural	N	N	M	N	N	N	N	N	N
Fyrquel	N	N	R	N	N	N	R	R	N
Gallic Acid	R	M	M	M	M	M		R	N
Gasoline	N	N	N	R	M	M	N	R	
Gelatin	R	R	R	R	R	R	R	R	N
Glaubers Salt	M	M	M	N	M	M		R	N
Glucose	R	R	R	R	R	R	R	R	
Glue (non-solvent type)	R	R	R	R	R	R	R	R	
Glycerine	R	R	R	R	R	R	R	R	N
Glycols	R	R	R	R	R	R	R	R	N
Green Sulphate Liquor	M	M	R	M	M	M		R	N
Halowax Oil	N	N	N	N	N	N	N	R	
n-Hexaldehyde	N	N	R	N	R	S	M	N	
Hexane	N	N	N	R	M	M	N	R	R
n-Hexane-1	N	N	N	M	M	M	N	R	R
Hexyl Alcohol	R	R	S	R	M	M	M	R	N
Hydrazine			R	M	M	M	M		
Hydraulic Oil (Petroleum)	N	N	N	R	M	M	M	R	R
Hydrobromic Acid	R	N	R	N	N	R	N	R	N
Hydrochloric Acid (37%) (cold)	M	M	M	M		R	M	R	
Hydrochloric Acid (37%) (hot)	N	N	N	N	N	S	N	S	
Hydrocyanic Acid	M	M	R	M	M	R	S	R	N

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Hydrofluoric Acid (conc., cold)	N	N	M	N	M	R	N	R	
Hydrofluoric Acid (conc., hot)	N	N	N	N	N	S	N	M	
Hydrofluoric Acid - Anhydrous	N	N	M			R	N		
Hydrofluosilicic Acid	R	M	R	M	M	R	N	R	
Hydrogen Gas	M	M	R	R	R	R	S	R	M
Hydrogen Peroxide (90%)	N	N	S	N	N	S	M	R	N
Hydrogren Sulphide (wet, cold)	N	N	R	N	R	M	S	N	N
Hydrogren Sulphide (wet, hot)	N	N	R	N	M	S	S	N	N
Hydroquinone	M	S	N	S	N	N		M	N
Hypochlorous Acid	N	N	M	N	N	N		R	N
Iodine Pentafluoride	N	N	N	N	N	N	N	N	N
Iodoform			R						
Isobutyl Alcohol	R	M	R	M	R	R	R	R	N
Isooctane	N	N	N	R	M	R	N	R	R
Isophorone	N	N	R	N	N	N	N	N	N
Isopropyl Acetate	N	N	M	N	N	N	N	N	N
Isopropyl Alcohol	R	M	R	M	M	R	R	R	N
Isopropyl Chloride	N	N	N	N	N	N	N	R	N
Isopropyl Ether	N	N	N	M	S	S	N	N	S
Kerosene	N	N	N	R	M	N	N	R	R
Lacquers	N	N	N	N	N	N	N	N	N
Lacquer Solvents	N	N	N	N	N	N	N	N	N
Lactic Acid (cold)	R	R	R	R	R	R	R	R	N
Lactic Acid (hot)	N	N	N	N	N	S	R	R	N
Lard	N	N	M	R	M	N	M	R	R
Lavender Oil	N	N	N	M	N	N	N	R	M
Lead Acetate (aq)	R	N	R	M	M	N	N	N	N
Lead Nitrate (aq)	R	R	R	R	R	N	M		
Lead Sulphamate (aq)	M	M	R	M	R	R	M	R	N
Ligroin (Benzine)	N	N	N	R	M	S	N	R	R
Lime Bleach	M	M	R	R	M	M	M	R	N
Lime Sulphur	N	N	R	N	R	R	R	R	N
Lindol	N	N	R	N	N	N	S	M	N
Linoleic Acid	N	N	N	M	M	N	M	M	N
Linseed oil	N	N	S	R	S	S	R	R	R
Liquefied Petroleum Gas	N	N	N	R	M	N	S	R	S
Lubricating Oil (petroleum)	N	N	N	R	M	N	N	R	R
Lye	R	M	R	M	M	R	M	M	N
Magnesium Chloride	R	R	R	R	R	R	R	R	
Magnesium Hydroxide	M	M	R	M	M	R		R	N
Magnesium Sulphate	M	M	R	R	R	R	R	R	N
Maleic Acid	N	N	N	N	N	N		R	N
Maleic Anhydride	N	N	N	N	N	N		R	N
Malic Acid	R	M		R	M	M	M	R	N
Mercuric Chloride	R	R	R	R	R	R		R	
Mercury	R	R	R	R	R	R		R	
Mesityl Oxide	N	N	M	N	N	N	N	N	N

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Methane	N	N	N	R	M	M	N	R	R
Methyl Acetate	N	N	M	N	M	N	N	N	N
Methyl Acrylate	N	N	M	N	M	N	N	N	N
Methacrylic Acid	N	N	M	N	M	N	N	S	N
Methyl Alcohol	R	R	R	R	R	R	R	N	N
Methyl Bromide	N		N	M	N	N		R	S
Methyl Butyl Ketone	N	N	R	N	N	N	N	N	N
Methyl Cellosolve	N	N	M	S	S	N	N	N	N
Methyl Chloride	N	N	S	N	N	N	N	R	N
Methyl Cyclopentane	N	N	N	N	N	N	N	R	N
Methylene Chloride	N	N	N	N	N	N	N	M	N
Methyl Ethyl Ketone	N	N	R	N	N	N	N	N	N
Methyl Formate	N	N	M	N	M	M			
Methyl Isobutyl Ketone	N	N	S	N	N	N	N	N	N
Methyl Methacrylate	N	N	N	N	N	N	N	N	N
Methyl Oleate		N	M	N	N	N		R	
Methyl Salicylate			M	N	N	N			
Milk	M	M	R	R	R	R	R	R	N
Mineral Oil	N	N	S	R	M	M	M	R	R
Monochlorobenzene	N	N	N	N	N	N	N	R	N
Monomethyl Aniline	N	N		N	N	N		M	N
Monoethanolamine	M	M	M	N	N	N	M	N	N
Monomethylether	M	M	R	R	R				
Monovinyl Acetylene	M	M	R	R	M	M	M	R	
Mustard Gas	R		R		R	R	R		
Naphtha	N	N	N	M	N	N	N	R	M
Naphthalene	N	N	N	N	N	N	N	R	
Naphthenic Acid	N	N	N	M	N	N	N	R	
Natural Gas	S	S	N	R	R	R	R	R	M
Nealsfoot Oil	N	N	M	R	N	N	M	R	R
Neville Acid	N	N	M	N	N	N	N	R	N
Nickel Acetate	R	N	R	M	M	N	N	N	N
Nickel Chloride	R	R	R	R	M	R	R	R	S
Nickel Sulphate	M	M	R	R	R	R	R	R	N
Nitre Cake	R	R	R	R	R	R	R	R	N
Nitric Acid - conc	N	N	N	N	N	N	N	M	N
Nitric Acid - dilute		S	M	N	S	R	N	M	N
Nitric Acid - red fuming	N	N	N	N	N	N	N	S	N
Nitrobenzene	N	N	N	N	N	N	N	M	N
Nitroethane	M	M	M	N	M	M	N	N	N
Nitromethane	M	S	M	N	S	M	N	N	N
Nitrogen	R	R	R	R	R	R	R	R	R
Nitrogen Tetroxide	N	N	N	N	N	N	N	N	N
Octadecane	N	N	N	R	M	M	N	R	M
n-Octane	N	N	N	M	N	N	N	R	N
Octachlorotoluene	N	N	N	N	N	N	N	R	N
Octyl Alcohol	M	M	R	M	M	M	M	R	N
Oleic Acid	N	N	N	S	N	N	N	M	N
Oleum	N	N	N	N	N	N	N	R	N
Olive Oil	N	N	M	R	M	M	R	R	
o-Dichlorobenzene	N	N	N	N	N	N	N	R	N
Oxalic Acid	M	M	R	M	M	M	M	R	
Oxygen - cold	M	M	R	M	R	R	R	R	M



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Oxygen - 90 to 200° C	N	N	N	N	N	N	R	M	N
Ozone	N	N	R	N	M	R	R	R	M
Paint Thinner - Duco	N	N	N	N	N	N	N	M	N
Palmitic Acid	M	M	M	R	M	S	N	R	
Peanut Oil	N	N	S	R	S		R	R	R
Perchloric Acid (dilute)	N	N	M	N	M	M	N	R	N
Perchloroethylene	N	N	N	S	N	N	N	R	N
Petroleum - below 121°C	N	N	N	R	M	M	M	R	M
Petroleum - above 121°C	N	N	N	N	N	N	N	M	N
Phenol	N	N	N	N	N	N	N	R	N
Phenylbenzene	N	N	N	N	N	N	N	R	N
Phenyl Ethyl Ether	N	N	N	N	N	N	N	N	N
Phenyl Hydrazide	R	M	N	N	N	N	N	R	N
Phorone	N	N	R	N	N	N	N	N	N
Phosphoric acid - 25%		M	R	M	M	R	S	R	M
Phosphoric Acid -45%		M	R	M	M	R	S	R	M
Phosphorous Trichloride	N	N	R	N	N	N		R	
Pickling Solution	N	N	S	N	N	N	N	M	N
Picric Acid	M	M	M	M	M	M	N	R	
Pinene	N	N	N	M	S	N	N	R	N
Pine Oil	N	N	N	R	N	N	N	R	
Piperidine	N	N	N	N	N	N	N	N	N
Plating Solution - Chrome	N		R		N	N	N	R	
Plating Solution - Others			R	R		R	N	R	
Polyvinyl acetate Emulsion			R		M	M			
Potassium Acetate	R	N	R	M	M	N	N	N	N
Potassium Chloride	R	R	R	R	R	R	R	R	R
Potassium Cupro Cyanide	R	R	R	R	R	R	R	R	R
Potassium Cyanide	R	R	R	R	R	R	R	R	R
Potassium Dichromate	S	M	R	R	R	R	R	R	
Potassium Hydroxide	M	M	R	M	M	R	S	N	N
Potassium Nitrate	R	R	R	R	R	R	R	R	R
Potassium Sulphate	M	M	R	R	R	R	R	R	N
Producer Gas	N	N	N	R	M	M	M	R	M
Propane	N	N	N	R	M	R	N	R	R
Propyl Acetate	N	N	M	N	N	N	N	N	N
n-Propyl Acetate	N	N	R	N	N	N	N	N	N
Propyl Alcohol	R	R	R	R	R	R	R	R	N
Propyl Nitrate	N	N	M	N	N	N	N	N	N
Propylene	N	N	N	N	N	N	N	R	N
Propylene Oxide	N	N	M	N	N	N	N	N	N
Pyranol	N	N	N	R	M	M	N	R	R
Pyridine	N	N	M	N	N	N	N	N	N
Pyroligenous Acid	N	N	M	N	N	N		N	N
Pyrrole	M	M	N	N	N	N	M	N	N
Radiation	S	S	S	S	S	S	S	N	S
Rape Seed Oil	N	N	R	M	M	N	N	R	M
Red Oil	N	N	N	R	M	M	N	R	R
Sal Ammoniac	R	R	R	R	R	R	M	R	R
Salicylic Acid	R	M	R	M				R	
Salt Water	R	R	R	R	R	R	R	R	N
Sewage	M	M	M	R	M	R	M	R	N
Silicate Esters	N	N	N	M	R		N	R	

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Silicone Greases	R	R	R	R	R	R	S	R	R
Silicone Oil	R	R	R	R	R	R	S	R	R
Silver Nitrate	R	R	R	M	R	R	R	R	R
Soap Solutions	M	M	R	R	M	R	R	R	N
Soda Ash	R	R	R	R	R	R	R	R	
Sodium Acetate	R	S	R	M	M	N	N	N	S
Sodium Bicarbonate	R	R	R	R	R	R	R	R	
Sodium Bisulphite	R	M	R	R	R	R	R	R	
Sodium Borate	R	R	R	R	R	R	R	R	
Sodium Chloride	R	R	R	R	R	R	R	R	
Sodium Cyanide	R	R	R	R	R	R	R		
Sodium Hydroxide (caustic soda)	R	M	R	M	M	R	M	M	N
Sodium Hypochlorite	S	S	R	M	M	R	R	R	N
Sodium Metaphosphate	R	R	R	R	M	M		R	
Sodium Nitrate	M	M	R	M	M	R	N		
Sodium Perborate	M	M	R	M	M	M	M	R	
Sodium Peroxide	M	M	R	M	M	M	N	R	N
Sodium Phosphate	R	R	R	R	M	R	N	R	R
Sodium Silicate	R	R	R	R	R	R		R	
Sodium Sulphate	M	M	R	R	R	R	R	R	N
Sodium Thiosulphate	M	M	R	M	R	R	R	R	N
Soybean oil	N	N	S	R	S	S	R	R	R
Stannic (ous) Chloride	R	R	M	R	N	N	M	R	
Steam - under 150°C	N	N	R	N	N	N	S	N	N
Steam - over 150°C	N	N	M	N	N	N	N	N	N
Stearic Acid	M	M	M	M	M	M	M		
Stoddart Solvent	N	N	N	R	S	N	N	R	R
Styrene	N	N	N	N	N	N	N	M	N
Sucrose Solution	R	R	R	R	M	M	R	R	N
Sulphite Liquors	M	M	M	M	M	M	N	R	N
Sulphur	N	N	M	N	M			R	N
Sulphur Chloride	N	N	N	N	N	N	S	R	N
Sulphur Dioxide	N	N	R	N	S	S	M	R	N
Sulphur Hexafluoride	N	N	R	M	R	M	M	R	N
Sulphur Trioxide	N	N	M	N	N	N	M	R	N
Sulphuric Acid - dilute	S	S	R	M	M	R	N	R	M
Sulphuric Acid - conc	N	N	S	N	N		N	R	N
Sulphuric Acid - 20% aq	N	N	N	N	N	N	N	R	N
Sulphurous Acid	M	M	M	M	M	R	N	R	N
Tannic acid	R	M	R	R	M	M	M	R	N
Tar - Bituminous	N	N	N	M	S	N	M	R	N
Tartaric Acid	R	M	M	R	M	R	R	R	
Terpineol	N	N	S	M	N	N		R	
Tertiary Butyl Alcohol	M	M	M	M	M	M	M	R	N
Tertiary Butyl Catechol	N	S	M	N	M	M		R	N
Tertiary Butyl Mercaptan	N	N	N	N	N	N	N	R	N
Tetrabromomethane	N	N	N	N	N	N	N	R	N
Tetrabutyl Titanate	M	M	R	M	M	R		R	
Tetrachloroethylene	N	N	N	N	N	N		R	N
Tetraethyl lead	N	N	N	M	M	N		R	
Tetrahydrofuran	N	N	M	N	N	N		N	N
Tetralin	N	N	N	N	N	N	N	R	
Thionyl Chloride	N	N	N		N			R	
Titanium Tetrachloride	N	N	N	M	N	N	N	R	N
Toluene	N	N	N	N	N	N	N	R	N

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Toluene Diisocyanate	N	N	M	N	N	N	N	N	N
Transformer Oil	N	N	N	R	M	N	M	R	M
Transmission Fluid Type A	N	N	N	R	M	M	M	R	R
Triacetin	M	S	R	M	M	M		N	N
Tributoxyl Ethyl Phosphate	M	M	R	N	N	N		R	
Tributyl Phosphate	M	N	R	N	N	S		N	N
Tributyl Mercaptan	N	N	N	N	N	N		R	
Trichloroethane	N	N	N	N	N	N	N	R	N
Trichloroacetic Acid	S	M	M	M	M	M		S	N
Trichloroethylene	N	N	N	S	N	N	M	R	
Tricresyl Phosphate	N	N	R	N	S	S	S	M	
Triethanolamine	M	M	M	S	M	M		N	N
Triethyl Aluminium								M	
Triethyl Borane								R	
Trinitrotoluene	N	N	N	N	M	M		M	N
Trioctyl Phosphate	N	N	R	N	N	N	S	M	N
Triaryl Phosphate	N	N	R	N	N	N	S	M	N
Tung Oil	N	N	N	R	M	S	N	R	
Turbine Oil	N	N	N	R	N	N	N	R	R
Turpentine	N	N	N	R	N	N	N	R	M
Unsymmetrical Dimethyl Hydrazine	R	M	R	M	M	R	N	N	
Varnish	N	N	N	M	N	N	N	R	N
Vegetable Oil	N	N	S	R	S		R	R	R
Versilube	R	R	R	R	R	R	S	R	R
Vinegar	M	M	R	M	M	R	R	R	N
Vinyl Chloride			M		N	N		R	
Water	R	R	R	R	M	R	R	M	N
Whisky, Wines	R	R	R	R	R	R	R	R	N
White Pine Oil	N	N	N	M	N	N	N	R	
White Oil	N	N	N	R	M	N	N	R	R
Wood Oil	N	N	N	R	M	S	N	R	
Xylene	N	N	N	N	N	N	N	R	N
Xylidenes	N	N	N	S	N	N	N	N	N
Zeolites	R	R	R	R	R	R		R	
Zinc compounds	R	R	R	R	M	M	N	R	N
Zinc Chloride	R	R	R	R	M	R		R	N
Zinc Sulphate	M	M	R	R	R	R	R	R	N