CHEMICAL RESISTANCE CHART

LEGEND:
1 = Recommended
2 = Suitable for Use
3 = Useable, not recommended
4 = Not Recommended

Use of product in environments specified as "USEABLE, NOT RECOMMENDED" or "NOT RECOMMENDED" may lead to product failure and will void warranty. These ratings are intended to be used as a guide only. For decisive results, please call for a free product sample for on-site testing in actual conditions. Actual results may vary depending on concentration of chemicals.
Note: Ratings for products # 470, #474, #479, #480, #970, #974, #979, & #980 refer to top surface only. Copyright in Chicago, Illinois - July, 2004

Chemical	Form	Chemical Family	Concentration	045 340 345 346 447 470 474 480	543BL 544BL 545BL 549AII 550BL 556BL 562BL	750 970 974 980	660 661/662 664/665 580/585 650/656 850/856 551 755AII 758AII	543RD 544RD 550RD 556RD 562RD	T17 035 406 410 411 413 415 417 419	620 420 422 479 520 520HD 522 522HD	523 531 730 735 737 769	825 826 830 831 920HD 922HD 979	663/863
2-Propanol (isopropal alcohol)	Liquid	Alcohol		1	1	1	2	2	2	2	2	2	1
Acetaldehyde	Liquid	Aldehyde	50%	2	2	2	4	4	3	3	3	3	2
Acetic Acid	Liquid	Acid (weak, organic)	50%	2	2	2	3	3	2	2	2	2	2
Acetic Acid	Liquid	Glacial		3	3	3	3	3	4	4	4	4	2
Acetic Anhydride	Liquid	Acid (weak)		3	3	3	2	2	4	4	4	4	2
Acetone	Liquid	Ketone		3	3	3	4	4	3	3	3	3	1
Ammonium Hydroxide	Liquid	Base (weak)	28-30%	4	4	4	4	4	1	1	1	1	2
Amyl Acetate	Liquid	Carboxylic Acid (Aliphatic)		4	4	4	4	4	3	3	3	3	2
Aniline	Liquid	Base (aromatic, weak)		4	4	4	4	4	4	4	4	4	2
ASTM #1	Liquid	Paraffin Oil		4	4	4	1	1	n/a	n/a	n/a	n/a	4
Beef Fat	Solid/Liquid			4	4	4	1	2	2	2	2	2	4
Benzene	Liquid	Aromatic HC		4	4	4	4	4	4	4	4	4	4
Benzoic Acid	Liquid	Carboxylic Acid (Aromatic)		4	4	4	4	4	1	1	1	1	4
Benzyl Alcohol	Liquid	Alcohol		4	4	4	4	4	4	4	4	4	4
Boric Acid	Liquid	Acid (weak)		1	1	1	1	1	1	1	1	1	1
Brake Fluid	Liquid	Ether/Glycol		4	4	4	4	4	4	4	4	4	1
Bromine	Liquid/Gas	Halogen		4	4	4	4	4	2	2	2	2	4
Butane	Liquid	Aliphatic HC		4	4	4	1	1	3	3	3	3	4
Butter	Solid/Liquid			4	4	4	1	2	1	1	1	1	2
Butyl Acetate	Liquid	Carboxylic Acid (Aliphatic)		4	4	4	4	4	3	3	3	3	3
Butyl Alcohol (butanol)	Liqud	Alcohol		1	1	1	1	1	1	1	1	1	2
Calcium Chloride	Solid	Inorganic Salt		1	1	1	1	1	2	2	2	2	1
Calcium Hydroxide	Solid	Metal Hydroxide		1	1	1	1	1	2	2	2	2	1
Carbolic Acid (liquid phenol)	Liquid	Acid (organic)		4	4	4	4	4	4	4	4	4	4
Carbon Monoxide	Gas	Inorganic Carbon Compound		3	3	3	2	2	1	1	1	1	1
Carbon Tetrachloride	Liquid	Halogenated Organic Liquid		4	4	4	3	3	4	4	4	4	4
Chicken Fat	Solid/Liquid			4	4	4	2	2	2	2	2	2	4
Chloroacetone	Liquid	Ketone		4	4	4	4	4	4	4	4	4	2
Chloroform	Liquid	Aliphatic HC		4	4	4	4	4	4	4	4	4	4
Chromic Acid	Liquid	Acid (weak)	50%	4	4	4	4	4	3	3	3	3	3
Citric Acid	Liquid	Acid (weak, organic)	10%	1	1	1	1	1	2	2	2	2	1
Corn Oil	Liquid	Fatty Acid		4	4	4	1	2	1	1	1	1	4
Cottonseed Oil	Liquid	Aliphatic HC		4	4	4	2	3	1	1	1	1	4
Cyclohexane	Liquid	Aliphatic HC		4	4	4	1	1	4	4	4	4	4
Cyclohexanol	Liquid	Alcohol (cyclic)		4	4	4	3	3	1	1	1	1	4
Cyclohexanone	Liquid	Ketone		4	4	4	4	4	4	4	4	4	2
Dibutyl Phthalate	Liquid	Ester		4	4	4	4	4	3	3	3	3	1
Diesel fuel	Liquid	Petroleum HC		4	4	4	1	1	3	3	3	3	4
Diesel Oil	Liquid	Petroleum HC		4	4	4	1	1	3	3	3	3	4
Dioctyl Phthalate (DOP)	Liquid	Ester		4	4	4	3	3	4	4	4	4	3
Ethane	Liquid	Aliphatic HC		4	4	4	1	1	1	1	1	1	4
Ethyl Acetate	Liquid	Ester		2	2	2	4	4	3	3	3	3	4
Ethyl Alcohol (ethanol)	Liquid	Alcohol		1	1	1	1	1	3	3	3	3	1
Ethyl Ether	Liquid	Ether		4	4	4	3	3	3	3	3	3	4
Ethylene Glycol (antifreeze)	Liquid	Alcohol		1	1	1	1	1	1	1	1	1	1
Formaldehyde	Liquid	Aldehyde	37%	3	3	3	2	2	1	1	1	1	2
Formic Acid	Liquid	Acid (weak, organic)		2	2	2	2	2	1	1	1	1	1
Fresh Water	Liquid			1	1	1	1	1	1	1	1	1	1
Fuel Oil	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Gasoline	Liquid	Aliphatic HC		4	4	4	1	1	3	3	3	3	4
Gear Oil (85w-140)	Liquid	Paraffin Oil		4	4	4	1	1	2	2	2	2	4
Glucose	Liquid	Sugar		1	1	1	1	1	1	1	1	1	2
Glycerin	Liquid	Alcohol		1	1	1	1	1	1	1	1	1	2
Heptane	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Hexane	Liquid	Aliphatic HC		4	4	4	1	1	3	3	3	3	4
Hydraulic Fluid	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Hydrazine	Liquid	Base (weak)		4	4	4	2	2	1	1	1	1	1
Hydrochloric Acid	Liquid	Acid (strong)	30%	2	2	2	4	4	2	2	2	2	2
Hydrofluoric Acid	Liquid	Acid (weak)	30%	4	4	4	4	4	3	3	3	3	2

CHEMICAL RESISTANCE CHART

LEGEND:
1 = Recommended
2 = Suitable for Use
3 = Useable, not recommended
4 = Not Recommended

Chemical	Form	Chemical Family	Concentration	045 340 345 346 447 470 474 480	543BL 544BL 545BL 549All 550BL 556BL 562BL	750 970 974 980	660 661/662 664/665 580/585 650/656 850/856 551 755All 758All	543RD 544RD 550RD 556RD 562RD	T17 035 406 410 411 413 415 417 419	620 420 422 479 520 520HD 522 522HD	523 531 730 735 737 769	825 826 830 831 920HD 922HD 979	663/863
Hydrogen Peroxide	Liquid			3	3	3	3	3	1	1	1	1	2
Iodine	Liquid	Inorganic Halogenated Comp		4	4	4	3	3	1	1	1	1	2
IRM 902	Liquid	Napathenic Oil		4	4	4	2	2	n/a	n/a	n/a	n/a	4
IRM 903	Liquid	Napathenic Oil		4	4	4	2	2	n/a	n/a	n/a	n/a	4
Jet Fuel	Liquid	Aromatic HC		4	4	4	1	1	3	3	3	3	4
Kerosene	Liquid	Aliphatic HC		4	4	4	1	1	3	3	3	3	4
Lacquers	Liquid	Aromatic HC (with alcohol)		4	4	4	4	4	4	4	4	4	4
Linoleic Acid	Liquid	Fatty Acid		4	4	4	2	2	---	---	---	---	4
Linseed Oil	Liquid	Fatty Acid		4	4	4	1	1	2	2	2	2	3
Methane	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Methyl Alcohol (methanol)	Liquid	Alcohol		1	1	1	1	1	1	1	1	1	1
Methyl Ethyl Ketone (MEK)	Liquid	Ketone		4	4	4	4	4	4	4	4	4	2
Methyl Formate	Liquid	Alcohol		3	3	3	3	3	3	3	3	3	2
Methyl Isobutyl Ketone (MIBK)	Liquid	Ketone		4	4	4	4	4	4	4	4	4	2
Methyl Methacrylate	Liquid	Ester		4	4	4	4	4	1	1	1	1	4
Methylene Chloride	Liquid	Aliphatic HC (halogenated)		4	4	4	4	4	4	4	4	4	3
Mineral Oil	Liquid	Petroleum HC		4	4	4	1	1	3	3	3	3	4
Mineral Spirits	Liquid	Aliphatic HC		4	4	4	2	2	3	3	3	3	4
Motor Oil 10w-30 (natural)	Liquid	Paraffin Oil		4	4	4	1	2	2	2	2	2	4
Motor Oil 10w-30(synthetic)	Liquid	Paraffin Oil		4	4	4	1	2	2	2	2	2	4
Napathenic	Liquid	Aromatic HC		4	4	4	1	1	---	---	---	---	4
Naptha	Liquid	Aromatic HC		4	4	4	1	1	2	2	2	2	4
Nitric Acid	Liquid	Acid (strong)	20%	4	4	4	4	4	2	2	2	2	1
Nitric Acid	Liquid		Concentrated	4	4	4	4	4	2	2	2	2	2
Nitrobenzene	Liquid	Aromatic HC		4	4	4	4	4	4	4	4	4	2
Octane	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Oleic Acid	Liquid	Acid		4	4	4	2	2	3	3	3	3	3
Oxalic Acid	Liquid	Acid (weak)		2	2	2	2	2	2	2	2	2	1
Peanut Oil	Liquid	Fatty Acid		4	4	4	2	2	1	1	1	1	4
Pentane	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Perchloroethylene	Liquid	Aliphatic HC (chlorinated)		4	4	4	2	2	3	3	3	3	4
Petroleum	Liquid	Aliphatic HC		4	4	4	1	1	2	2	2	2	4
Phosphoric Acid	Liquid	Acid (weak)		2	2	2	3	3	1	1	1	1	1
Pine Oil	Liquid	Turpene/Alcohol/Ether	100%	4	4	4	3	4	4	4	4	4	4
Pine Oil	Liquid		20%=Pine-Sol	3	3	3	2	2	3	3	3	3	4
Potassium Hydroxide	Liquid	Base (strong)	50%	2	2	2	2	2	1	1	1	1	1
Power Steering Fluid	Liquid	Napathenic Oil		4	4	4	1	2	2	2	2	2	4
Propane	Liquid	Aliphatic HC		4	4	4	1	1	1	1	1	1	4
Propyl Alcohol (propanol)	Liquid	Alcohol		1	1	1	1	1	2	2	2	2	1
Propylene Dichloride	Liquid	Aliphatic HC		4	4	4	4	4	4	4	4	4	4
Salt Water	Liquid			1	1	1	1	1	1	1	1	1	1
Silicates	Solid	Alkali Metals		1	1	1	1	1	1	1	1	1	2
Silver Nitrate	Solid	Inorganic Salt		1	1	1	2	2	1	1	1	1	1
Sodium Bicarbonate	Solid	Inorganic Salt		1	1	1	1	1	1	1	1	1	1
Sodium Hydroxide	Liquid	Base (strong)		2	2	2	2	2	2	2	2	2	1
Sodium Hydroxide	Liquid		0.34% = Mr. Clean	1	1	1	1	1	1	1	1	1	1
Sodium Hypochlorite (bleach)	Liquid	Base		1	1	1	1	1	1	1	1	1	2
Stearic Acid	Liquid	Fatty Acid		3	3	3	1	1	2	2	2	2	2
Styrene	Liquid	Aromatic HC		4	4	4	4	4	4	4	4	4	4
Sulfuric Acid	Liquid	Acid (strong)	<10%	2	2	2	2	2	1	1	1	1	2
Sulfuric Acid	Liquid		10-75%	3	3	3	4	4	1	1	1	1	2
Sulfuric Acid	Liquid		Concentrated	4	4	4	4	4	4	4	4	4	3
Tetrahydrofuran (THF)	Liquid	Ether		4	4	4	4	4	4	4	4	4	4
Toluene (methyl benzene)	Liquid	Aromatic HC		4	4	4	3	3	4	4	4	4	4
Transmission Fluid	Liquid	Napatheic or Paraffin Oil		4	4	4	1	1	2	2	2	2	4
Trinitrobenzene	Liquid	Aromatic HC		4	4	4	4	4	4	4	4	4	4
Turpentine	Liquid	Aliphatic HC		4	4	4	1	1	4	4	4	4	4
Vegetable Oil	Liquid	Aliphatic HC		4	4	4	1	2	1	1	1	1	4
Vinegar	Liquid	Acid (weak, organic)	5% Acetic Acid	3	3	3	1	1	1	1	1	1	1
Xylene	Liquid	Aromatic HC		4	4	4	4	4	4	4	4	4	4