



EpiMax 421 HAR

Chemical Resistance Guide

These results are based on a spot test under a water glass sealed with paraffin wax at 25°C. "SHORT" refers to an 8 hour test exposure, equivalent to clean up after a single shift. "LONG" refers to a 24 hour test exposure, equivalent to clean up after a single day. Coating samples were cured for 7 days at 25° C. Note that Workplace Safety will be best maintained with prompt clean up. The rating system for these tests is as follows:

E = Excellent G = Good F = Fair NR = Not Recommended



ORGANIC ACIDS

REAGENT	CONC.	RATING	
		SHORT	LONG
Acetic	5%	E	E
Acetic	10%	E	E
Acetic	20%	E	G
Acetic	Glacial	G	G
Butyric	10%	E	G
Citric	10%	G	G
Citric	50%	G	F
Cresylic	10%	G	G
Formic	10%	E	E
Lactic	10%	E	E
Lactic	25%	G	G
Maleic	30%	G	G
Maleic	60%	G	G
Malic	50%	G	G
Monochloro Acetic	5%	G	G
Monochloro Acetic	10%	G	G
Oleic	Sat.	E	E
Oxalic	Sat.	E	E
Picric	Sat.	E	E

INORGANIC ACIDS

Boric	30%	E	E
Boric	Sat.	E	E
Chromic	2%	E	G
Chromic	10%	E	G
Chromic	15%	E	E
Hydrochloric	10%	E	G
Hydrochloric	37%	G	G
Hydrochloric	Conc.	E	G
Hydrofluoric	10%	E	E
Hydrofluoric	24%	E	E
Hypochlorous	5%	E	E
Nitric	10%	E	E
Nitric	30%	E	F
Nitric	Over 40%	E	F
Nitric	Conc.	F	F
Perchloric	35%	G	G
Phosphoric	10%	E	G
Phosphoric	35%	E	G
Phosphoric	75%	G	G

INORGANIC ACIDS (CONT)

REAGENT	CONC.	RATING	
		SHORT	LONG
Sulphuric	25%	G	G
Sulphuric	50%	G	G
Sulphuric	70%	F	F
Sulphuric	Conc.	F	F

KETONES - ESTERS

Acetone	100%	E	G
Amyl Acetate	100%	E	E
Butyl Acetate	100%	E	E
Ethyl Acetate	100%	E	G
Methyl Ethyl Ketone	100%	E	E
Methyl Isobutyl Ketone	100%	F	F
PM Acetate	100%	E	G

ALKALIES AND SALTS

Aluminium Chloride	50%	E	E
Ammonium Chloride	50%	E	E
Ammonium Hydroxide	10%	E	E
Ammonium Hydroxide	20%	E	E
Ammonium Hydroxide	50%	E	E
Ammonium Nitrate	Sat.	E	E
Ammonium Persulphate	Sat.	E	E
Ammonium Sulphate	Sat.	E	E
Calcium Chloride	50%	E	E
Calcium Hydroxide	Sat.	E	E
Calcium Hypochlorite	15%	G	G
Ferric Chloride	Sat.	E	E
Ferric Sulphate	Sat.	E	E
Potassium Hydroxide	40%	G	G
Sodium Bicarbonate	Sat.	E	E
Sodium Bisulphate	Sat.	E	E
Sodium Carbonate	Sat.	E	E
Sodium Chloride	20%	E	E
Sodium Hydroxide	10%	E	E
Sodium Hydroxide	50%	E	E
Sodium Hypochlorite	10%	E	E
Sodium Sulphate	Sat.	E	E
Sodium Sulfide	Sat.	E	E
Trisodium Phosphate	10%	E	E
Trisodium Phosphate	Sat.	E	E

**Note that in the real world,
volatile solvents evaporate quickly.**

SOLVENTS - ALIPHATIC

REAGENT	CONC.	RATING	
		SHORT	LONG
Gasoline	100%	E	E
Hexane	100%	E	E
Jet Fuel A-1	100%	E	E
Mineral Spirits	100%	E	E
Naphtha	100%	E	E

SOLVENTS - AROMATIC

Benzene	100%	G	G
Chlorobenzene	100%	G	G
SC-100	100%	E	E
Toluene	100%	E	G
Xylene	100%	E	E

SOLVENTS - CHLORINATED

Methylene Chloride	100%	F	F
Perchloroethane	100%	E	E
1,1,1, Trichloroethane	100%	E	E
Trichloroethylene	100%	G	G

AUTO-BRAKE - HYDRAULIC FLUIDS

Brake Fluid	100%	G	G
Hy-Jet Fuel #3	100%	G	G
Motor Oil	100%	E	E
Skydrol Type IV	100%	G	G
Skydrol Type V	100%	G	G
Transmission Fluid	100%	E	G

ALCOHOLS

Diacetone Alcohol	100%	G	G
Ethyl Alcohol	100%	G	G
Ethylene Glycol	100%	E	E
Glycerine	100%	E	E
Isopropyl Alcohol	100%	G	G
Methyl Alcohol	100%	G	G
Phenol	5%	F	F
Triethylene Glycol	100%	G	G

MISCELLANEOUS CHEMICALS

REAGENT	CONC.	RATING	
		SHORT	LONG
Acrylonitrile	100%	G	G
Aniline	100%	F	F
Beer	100%	E	E
Bromine	100%	F	F
Butyl Lactate	100%	G	G
Carbon Disulfide	100%	G	G
Carbon Tetrachloride	100%	G	G
Chloroform	100%	G	G
Cola	100%	E	E
Corn Oil	100%	E	E
Cyclohexane	100%	G	G
Cyclohexanone	100%	G	G
Diethyl Phthalate	100%	G	G
Dimethyl Phthalate	100%	G	G
Ethylene Dichloride	100%	G	G
Formaldehyde	100%	G	G
Fruit Juice	100%	E	G
Grease	100%	E	E
Hydrogen Peroxide	10%	E	G
Ketchup	100%	E	G
Lanoline	100%	E	E
Lard	100%	E	E
Linseed Oil	100%	E	E
Mayonnaise	100%	E	E
Methyl Salicylate	(50% in Toluene)	F	F
Milk	100%	E	E
Mustard	100%	G	G
2-Nitro-Propane	100%	E	G
Pyridine	100%	G	G
Sugar	Sat.	E	E
Tannic Acid	Sat.	E	G
Tartaric Acid	Sat.	G	G
Tide Solution	2%	E	E
Triacetin	100%	E	E
Triethanolamine	100%	E	E
Turpentine	100%	E	E
Water	100%	E	E
Wine	100%	E	E

