

APPENDIX H

Chemical Resistance Examples

	1	2	3	4
*Acetaldehyde	V G	G	V G	G
Acetic acid	V G	V G	V G	V G
*Acetone	G	V G	V G	P
Ammonium hydroxide	V G	V G	V G	V G
*Amyl acetate	F	P	F	P
Aniline	G	F	F	P
*Benzaldehyde	F	F	G	G
*Benzene	P	P	P	F
Butyl acetate	G	F	F	P
Butyl alcohol	V G	V G	V G	V G
Carbon disulfide	F	F	F	F
*Carbon tetrachloride	F	P	P	G
*Chlorobenzene	F	P	F	P
*Chloroform	G	P	P	E
Chloronaphthalene	F	P	F	F
Chromic acid (50%)	F	P	F	F
Cyclohexanol	G	F	G	V G
*Dibutyl Phthalate	G	P	G	G
Diisobutyl ketone	P	F	G	P
Dimethylformamide	F	F	G	G
Diethyl phthalate	G	P	F	V G
Epoxy resins, dry	V G	V G	V G	V G
*Ethyl acetate	G	F	G	F
Ethyl alcohol	V G	V G	V G	V G
*Ethyl ether	V G	G	V G	G
*Ethylene	F	P	F	P

dichloride				
Ethylene glycol	V G	V G	V G	V G
Formaldehyde	V G	V G	V G	V G
Formic acid	V G	V G	V G	V G
Freon 11, 12, 21, 22	G	P	F	G
*Furfural	G	G	G	G
Glycerin	V G	V G	V G	V G
Hexane	F	P	P	G
Hydrazine (65%)	F	G	G	G
Hydrochloric acid	V G	G	G	G
Hydrofluoric acid (48%)	V G	G	G	G
Hydrogen peroxide (30%)	G	G	G	G
Ketones	G	V G	V G	P
Lactic acid (85%)	V G	V G	V G	V G
Linseed oil	V G	P	F	V G
Methyl alcohol	V G	V G	V G	V G
Methylamine	F	F	G	G
Methyl bromide	G	F	G	F
*Methyl ethyl ketone	G	G	V G	P
*Methyl isobutyl ketone	F	F	V G	P
Methyl methacrylate	G	G	V G	F
Monoethanolamine	V G	G	V G	V G
Morpholine	V G	V G	V G	G
Naphthalene	G	F	F	G
Naphthalene, aliphatic	V G	F	F	V G

The official versions of all REM forms and documents are the versions at the REM website. Always check there -- being at www.purdue.edu/REM -- to make sure that you have the official version of any form or other document.

Naphthas, aromatic	G	P	P	G
*Nitric acid	G	F	F	F
Nitric acid, red and white fuming	P	P	P	P
Nitropropane (95.5%)	F	P	F	F
Oleic acid	V G	F	G	V G
Oxalic acid	V G	V G	V G	V G
Palmitic acid	V G	V G	V G	V G
Perchloric acid (60%)	V G	F	G	G
Perchloroethylene	F	P	P	G
Phenol	V G	F	G	F
Phosphoric acid	V G	G	V G	V G
Potassium hydroxide	V G	V G	V G	V G
Propyl acetate	G	F	G	F
Propyl alcohol	V G	V G	V G	V G
Isopropyl alcohol	V G	V G	V G	V G
Sodium hydroxide	V G	V G	V G	V G
Styrene (100%)	P	P	P	F
Sulfuric acid	G	G	G	G
Tetrahydrofuran	P	F	F	F
*Toluene	F	P	P	F
Toluene diisocyanate	F	G	G	F
*Trichloroethylene	F	F	P	G
Triethanolamine	V G	G	G	V G
Tung oil	V G	P	F	V G
Turpentine	G	F	F	V G
*Xylene	P	P	P	F

- 1 neoprene V very
 G good
- 2 latex or G good
 rubber
- 3 butyl F fair
- 4 nitrile latex P poor
- * limited use

Modified from Appendix C, Chapter 5 of DOE OSH Technical Reference "glove selection material" at http://tis.eh.doe.gov/docs/osh_tr/ch5c.html July 8, 1998

NOTE: performance varies with material thickness and duration of contact. ALWAYS choose protective material carefully, and wash and/or remove after chemical contact.