

# Appendix A

## Glove Selection

Examples of Chemical Resistance of Common Glove Materials

Excellent, Good, Fair, Poor, "-" (No) Resistance to chemical exposure for chemical listed.

**Table Appendix A**

Chemical	*Notes	Natural Rubber	Neoprene	Nitrile	Poly Vinyl Alcohol
Acetaldehyde	a	P	P	P	P
Acetic Acid	b	F	E	F	P
Acetone	b	P	P	P	P
Acrylonitrile	b	P	P	P	P
Ammonium Hydroxide (sat.)	b	P	E	E	P
Aniline	b	P	P	P	E
Benzaldehyde	b	P	P	P	G
Benzene	a	P	P	P	E
Benzyl Chloride	a	P	P	P	F
Bromine		P	F	-	-
Butane		P	G	P	G
Butyraldehyde	b	P	P	P	P
Calcium Hypochlorite		G	G	G	P
Carbon Disulfide		P	P	P	G
Carbon Tetrachloride	a	P	P	P	E
Chlorine		P	F	-	P
Chloroacetone		F	E	-	P
Chloroform	a	P	P	P	E
Chromic Acid	b	P	P	F	P
Cyclohexane		P	P	E	P
Dibenzyl Ether		P	P	-	P
Dibutyl Phthalate	b	F	F	-	E
Diethanolamine	b	F	E	E	-
Diethyl Ether		P	P	P	E
Dimethyl Sulfoxide	b	P	E	P	P
Ethyl Acetate	b	P	P	P	G
Ethylene Dichloride	a	P	P	P	G
Ethylene Glycol	b	E	E	E	F
Ethylene Trichloride	a	P	P	P	F
Fluorine		P	P	-	P
Formaldehyde	b	P	F	E	P
Formic Acid	b	F	E	F	P
Glycerol		E	E	E	F
Hexane		P	P	E	E
Hydrobromic Acid	b	P	G	F	P
Hydrochloric Acid (conc.)	b	G	G	G	P

**Table Appendix A**

<b>Chemical</b>	<b>*Notes</b>	<b>Natural Rubber</b>	<b>Neoprene</b>	<b>Nitrile</b>	<b>Vinyl</b>
Hydrofluoric Acid (30%)	b	F	F	P	P
Hydrogen Peroxide		E	F	E	P
Iodine		G	G	-	G
Methylamine	b	P	G	E	P
Methyl Cellusolve	b	P	P	F	P
Methyl Chloride	a	P	F	-	P
Methyl Ethyl Ketone	b	P	P	P	F
Methylene Chloride	a	P	P	P	E
Monoethanolamine	b	F	E	E	F
Morpholine	b	P	P	P	F
Naphthalene	a	P	P	F	P
Nitric Acid (conc.)	b	P	F	P	P
Perchloric Acid		E	E	E	P
Phenol		P	G	P	P
Phosphoric Acid		E	E	E	P
Potassium Hydroxide (sat.)		E	E	E	P
Propylene Dichloride	a	P	F	-	P
Sodium Hydroxide		E	E	E	P
Sodium Hypochlorite		E	E	E	P
Sulfuric Acid	b	P	F	P	P
Toluene	a	P	P	P	E
Trichloroethylene	a	P	P	P	E
Tricresyl Phosphate	b	P	G	G	E
Triethanolamine		G	E	E	E
Trinitrotoluene		P	F	F	P

Excellent, Good, Fair, Poor, "-" (No) Resistance to chemical exposure for chemical listed.

**\*Notes:**

- a. Aromatic and halogenated hydrocarbons will attack all types of natural and most synthetic glove materials.
- b. Butyl rubber recommended for handling DMSO.

**For more detailed information concerning glove material selection, consult with the Chemical Hygiene Officer.**