

PROFESSIONAL RUBBER BOOTS

	Nitrile (NBR)	Neoprene (CR)	Hypalon® (CSM)
Acetaldehyde	D	C	C
Acetamide	A	B	B
Acetic Acid, Glacial	C	D	C
Acetic Acid, 30%	B	A	B
Acetic Anhydride	C	B	A
Acetone	D	C	B
Acetophenone	D	D	D
Acetyl Chloride	D	D	D
Acetylene	A	B	B
Acrylonitrile	D	D	C
Adipic Acid	A	A	*
Alkazene (Dibromoethylbenzene)	D	D	D
Alum-NH3-Cr-K (Aqueous)	A	A	A
Aluminum Acetate (Aqueous)	B	B	A
Aluminum Chloride (Aqueous)	A	A	A
Aluminum Fluoride (Aqueous)	A	A	A
Aluminum Nitrate (Aqueous)	A	A	A
Aluminum Phosphate (Aqueous)	A	A	A
Aluminum Sulfate (Aqueous)	A	A	A
Ammonia Anhydrous	B	A	B
Ammonia Gas (cold)	A	A	A
Ammonia Gas (hot)	D	B	B
Ammonium Carbonate (Aqueous)	D	A	*
Ammonium Chloride (Aqueous)	A	A	A
Ammonium Hydroxide (conc.)	D	A	A
Ammonium Nitrate (Aqueous)	A	A	A
Ammonium Nitrite (Aqueous)	A	A	A
Ammonium Persulfate (Aqueous)	D	A	A
Ammonium Phosphate (Aqueous)	A	A	A
Ammonium Sulfate (Aqueous)	A	A	A
Amyl Acetate (Banana Oil)	D	D	D
Amyl Alcohol	B	B	A
Amyl Borate	A	A	A
Amyl Chloronaphthalene	D	D	D
Amyl Napthalene	D	D	D
Aniline	D	D	C
Aniline Dyes	D	B	B
Aniline Hydrochloride	B	D	D
Animal Fats	A	B	B
Ansul Ether (Anesthetics)	C	D	D
Aqua Regia	D	D	A
Aroclor, 1248	C	D	A
Aroclor, 1254	D	D	D
Aroclor, 1260	A	A	A
Arsenic Acid	A	A	A
Arsenic Trichloride (Aqueous)	A	A	*
Askarel	B	D	D
Asphalt	B	B	B
Banana Oil (Amyl Acetate)	D	D	D
Barium Chloride (Aqueous)	A	A	A
Barium Hydroxide (Aqueous)	A	A	A

Barium Sulfate (Aqueous)	A	A	A
Barium Sulfide (Aqueous)	A	A	A
Beer	A	A	A
Beet Sugar Liquors	A	B	A
Benzaldehyde	D	D	A
Benzene	D	D	D
Benzene Sulfonic Acid (Nitrobenzene) (Pet Ether)	D	B	A
Benzene (Ligroin)	A	B	C
Benzoic Acid	C	D	D
Benzoyl Chloride	D	D	D
Benzyl Alcohol	D	B	B
Benzyl Benzoate	D	D	D
Benzyl Chloride	D	D	D
Biphenyl (Diphenyl) (Phenylbenzene)	D	D	D
Blast Furnace Gas	D	D	D
Bleach Solutions	D	D	A
Borax	B	A	A
Bordeaux Mixture	B	B	A
Boric Acid	A	A	A
Brine	A	A	A
Bromine-Anhydrous	D	D	D
Bromine Trifluoride	D	D	D
Bromine Water	D	D	A
Bromobenzene	D	D	D
Bunker Oil	A	D	D
Butadiene	D	D	C
Butane	A	A	B
Butter (Animal Fat)	A	B	B
Butyl Acetate	D	D	D
Butyl Acetyl Ricinoleate	C	B	B
Butyl Acrylate	D	D	D
Butyl Alcohol	A	A	A
Butyl Amine	C	D	D
Butyl Benzoate	D	D	D
Butyl Carbitol	D	C	B
Butyl Cellosolve	C	C	B
Butyl Oleate	D	D	D
Butyl Stearate	B	D	D
Butylene	B	C	D
Butyraldehyde	D	C	D
Calcium Acetate (Aqueous)	B	B	B
Calcium Bisulfite (Aqueous)	D	A	A
Calcium Chloride (Aqueous)	A	A	A
Calcium Hydroxide (Aqueous)	A	A	A
Calcium Hypochlorite (Aqueous)	B	C	A
Calcium Nitrate (Aqueous)	A	A	A
Calcium Sulfide (Aqueous)	A	A	A
Cane Sugar Liquors	A	A	A
Carbamate	C	B	B
Carbitol	B	B	B
Carbolic Acid (Phenol)	D	C	D
Carbon Bisulfide	C	D	D
Carbon Dioxide	A	B	B
Carbonic Acid	B	A	A
Carbon Monoxide	A	B	B
Carbon Tetrachloride	C	D	D

Castor Oil	A	A	B
Cellosolve	D	D	D
Cellosolve Acetate	D	D	D
Cellulube (Fryquel)	D	D	D
China Wood Oil (Tung Oil)	A	B	C
Chlorine (Dry)	D	C	B
Chlorine (Wet)	D	C	C
Chlorine Dioxide	D	D	C
Chlorine Trifluoride	D	D	D
Chloroacetic Acid	D	D	A
Chloroacetone	D	C	C
Chlorobenzene	D	D	D
Chlorobromomethane	D	D	D
Chlorobutadiene	D	D	D
Chlorododecane	D	D	D
Chloroform	D	D	D
O-Chloronaphthalene	D	D	D
1-Chloro-1-Nitro Ethane	D	D	D
Chlorosulfonic Acid	D	D	D
Chlorotoluene	D	D	D
Chlorox (Sodium Hypochlorite NaOCl)	B	A	B
Chrome Plating Solutions	D	D	D
Chromic Acid	D	C	B
Citric Acid	A	A	A
Coal Tar (Creosote)	A	B	D
Cobalt Chloride (Aqueous)	A	A	A
Cocoonut Oil	A	B	C
Cod Liver Oil	A	B	B
Coke Oven Gas	D	D	C
Copper Acetate (Aqueous)	B	B	B
Copper Chloride (Aqueous)	A	B	B
Copper Cyanide (Aqueous)	A	A	A
Copper Sulfate (Aqueous)	A	A	A
Corn Oil	A	C	B
Cottonseed Oil	A	B	B
Creosote (Coal Tar)	A	B	D
Cresol	D	C	D
Cresylic Acid	D	C	D
Cumene	D	D	D
Cyclohexane	A	C	D
Cyclohexanol	C	A	B
Cyclohexanone	D	D	D
P-Cymene	D	D	D
Decalin	D	D	D
Decane	A	D	C
Denatured Alcohol	A	A	A
Detergent Solutions	A	B	B
Developing Fluids	A	A	A
Diacetone	D	D	D
Diacetone Alcohol	D	B	B
Dibenzyl Ether	D	C	D
Dibenzyl Sebecate	D	D	D
Dibromoethylbenzene (Alkazene)	D	D	D
Dibutyl Amine	D	D	D
Dibutyl Ether	D	C	D
Dibutyl Phthalate	D	D	D
Dibutyl Sebecate	D	D	D

A : Recommended B : minor to moderate effect C : moderate to severe effect D : Not Recommended * : Insufficient Data

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O-Dichlorobenzene	D	D	D
Dichloro-Isopropyl Ether	D	D	D
Dicyclohexylamine	C	D	D
Diesel Oil	A	C	C
Diethylamine	B	B	C
Diethyl Benzene	D	D	D
Diethyl Ether	D	C	C
Diethylene Glycol	A	A	A
Diethyl Sebecate	B	D	B
Diisobutylene	B	D	D
Diisopropyl Benzene	D	D	D
Diisopropyl Ketone	D	D	D
Diisopropylidene Acetone (Phorone)	D	D	D
Dimethyl Aniline (Xylidine)	C	C	D
Dimethyl Ether (Methyl Ether)	A	C	C
Dimethyl Formamide	B	C	D
Dimethyl Phthalate	D	D	D
Dinitrotoluene	D	D	D
Diethyl Phtalate	C	D	D
Diethyl Sebecate	D	D	D
Dioxane	D	D	D
Dioxolane	D	D	D
Dipentene	B	D	D
Diphenyl (Biphenyl) (Phenylbenzene)	D	D	D
Diphenyl Oxides	D	D	D
Dowtherm Oil	D	D	D
Dry Cleaning Fluids	C	D	D
Epichlorohydrin	D	D	D
Ethane	A	B	B
Ethanolamine	B	B	C
Ethyl Acetate	D	C	D
Ethyl Acetoacetate	D	C	D
Ethyl Acrylate	D	D	D
Ethyl Alcohol	A	A	A
Ethyl Benzene	D	D	D
Ethyl Benzoate	D	D	D
Ethyl Cellosolve	D	D	D
Ethyl Cellulose	B	B	B
Ethyl Chloride	A	D	D
Ethyl Chlorocarbonate	D	D	D
Ethyl Chloroformate	D	D	D
Ethyl Ether	C	C	D
Ethyl Formate	D	B	B
Ethyl Mercaptan	D	C	B
Ethyl Oxalate	D	C	D
Ethyl Pentachlorobenzene	D	D	D
Ethyl Silicate	A	A	B
Ethylene	A	C	*
Ethylene Chloride	D	D	D
Ethylene Chlorohydrin	D	B	B
Ethylene Diamine	A	A	B
Ethylene Dichloride	D	D	D
Ethylene Glycol	A	A	A
Ethylene Oxide	D	D	D
Ethylene Trichloride	D	D	D
Fatty Acids	B	B	B

Ferric Chloride (Aqueous)	A	A	A
Ferric Nitrate (Aqueous)	A	A	A
Ferric Sulfate (Aqueous)	A	A	A
Fish Oil	A	D	*
Fluorinated Cyclic Ethers	*	D	*
Fluorine (Liquid)	D	D	*
Fluorobenzene	D	D	*
Fluoroboric Acid	A	A	A
Fluorocarbon Oils		B	*
Fluorolube	A	B	A
Fluorosilicic Acid (Hydrofluosilicic Acid)	A	B	A
Formaldehyde (RT)	C	B	A
Formic Acid	B	A	A
Freon 11	B	C	A
Freon 12	A	A	A
Freon 13	A	A	A
Freon 21	D	D	D
Freon 22	D	A	A
Freon 31	D	B	B
Freon 32	A	A	A
Freon 112	B	C	B
Freon 113	A	A	A
Freon 114	A	A	A
Freon 115	A	A	A
Freon 142b	A	A	A
Freon 152a	A	A	C
Freon 218	A	A	A
Freon C316	A	A	A
Freon C318	A	A	A
Freon 13B1	A	A	A
Freon 114B2	B	C	A
Freon 502	B	A	*
Freon TF	A	A	A
Freon T-WD602	B	B	B
Freon TMC	B	C	B
Freon T-P35	A	A	A
Freon TA	A	B	A
Freon TC	A	A	A
Freon MF	A	C	B
Freon BF	B	C	B
Fuel Oil	A	B	B
Fumaric Acid	A	B	B
Furan, Furfuran	D	D	D
Furfural	D	C	C
Fyrquel (Cellulube)	D	D	D
Gallic Acid	B	B	B
Gasoline	B	C	C
Gelatin	A	A	A
Glauber's Salt (Aqueous)	D	B	B
Glucose	A	A	A
Glue	A	A	A
Glycerin	A	A	A
Glycols	A	A	A
Green Sulfate Liquor	B	B	B
Halowax Oil	D	D	D
N-Hexaldehyde	D	A	C
Hexane	A	B	B

N-Hexene-1	B	B	B
Hexyl Alcohol	A	B	B
Hydrazine	B	B	B
Hydraulic Oil (Petroleum)	A	B	B
Hydrobromic Acid	D	D	A
Hydrobromic Acid 40%	D	B	A
Hydrochloric Acid (Cold) 37%	C	B	A
Hydrochloric Acid (Hot) 37%	D	D	D
Hydrocyanic Acid	B	B	A
Hydrofluoric Acid (Conc.) Cold	D	D	A
Hydrofluoric Acid (Conc.) Hot	D	D	C
Hydrofluoric Acid-Anhydrous	D	D	A
Hydrofluosilicic Acid (Fluosilicic Acid)	A	B	A
Hydrogen Gas	A	A	A
Hydrogen Peroxide (90%)	D	D	A
Hydrogen Sulfide (Wet) Cold	D	B	B
Hydrogen Sulfide (Wet) Hot	D	C	C
Hydroquinone	C	D	D
Hypochlorous Acid	D	D	D
Iodine Pentafluoride	D	D	D
Iodoform	*	D	*
Isobutyl Alcohol	B	A	A
Isooctane	A	B	B
Isophorone	D	D	D
Isopropyl Acetate	D	D	D
Isopropyl Alcohol	B	B	A
Isopropyl Chloride	D	D	D
Isopropyl Ether	B	C	C
Kerosene	A	B	C
Lacquers	D	D	D
Lacquer Solvents	D	D	D
Lactic Acid (Cold)	A	A	A
Lactic Acid (Hot)	D	D	C
Lard	A	B	D
Lavender Oil	B	D	D
Lead Acetate (Aqueous)	B	B	D
Lead Nitrate (Aqueous)	A	A	A
Lead Sulfamate (Aqueous)	B	A	A
Ligroin (Benzine) (Nitrobenzene)	A	B	C
Lime Bleach	A	B	B
Lime Sulfur	D	A	A
Lindol (Hydraulic Fluid)	D	D	D
Linoleic Acid	B	D	D
Linseed Oil	A	B	B
Liquefied Petroleum Gas	A	B	B
Lubricating Oils (Petroleum)	A	B	B
Lye	B	B	A
Magnesium Chloride (Aqueous)	A	A	A
Magnesium Hydroxide (Aqueous)	B	A	A
Magnesium Sulfate (Aqueous)	A	A	A
Maleic Acid	D	C	D
Maleic Anhydride	D	C	D
Malic Acid	A	C	B
Mercury Chloride (Aqueous)	A	A	A
Mercury	A	A	A
Mesityl Oxide	D	D	D
Methane	A	B	B

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Methyl Acetate	D	B	D
Methyl Acrylate	D	B	D
Methylacrylic Acid	D	B	D
Methyl Alcohol	A	A	A
Methyl Bromide	B	D	D
Methyl Butyl Ketone (Propyl Acetone)	D	D	D
Methyl Cellosolve	C	C	B
Methyl Chloride	D	D	D
Methyl Cyclopentane	D	D	D
Methylene Chloride	D	D	D
Methyl Ether (Dimethyl Ether)	A	C	C
Methyl Ethyl Ketone	D	C	D
Methyl Formate	D	B	B
Methyl Isobutyl Ketone	D	D	D
Methyl Methacrylate	D	D	D
Methyl Oleate	D	D	D
Methyl Salicylate	D	D	D
Milk	A	A	A
Mineral Oil	A	B	B
Monochlorobenzene	D	D	D
Monomethyl Aniline	D	D	D
Monoethanol Amine	D	D	D
Monomethyl Ether (Methyl Ether)	A	C	B
Monovinyl Acetylene	A	B	B
Mustard Gas	*	A	A
Naphtha	B	C	D
Naphthalene	D	D	D
Naphthalenic Acid	B	D	D
Natural Gas	A	A	A
Neats Foot Oil	A	D	D
Neville Acid	D	D	D
Nickel Acetate (Aqueous)	B	B	D
Nickel Chloride (Aqueous)	A	A	A
Nickel Sulfate (Aqueous)	A	A	A
Niter Cake	A	A	A
Nitric Acid (Conc.)	D	D	B
Nitric Acid (Dilute)	D	B	A
Nitric Acid-Red Fuming	D	D	D
Nitrobenzene	D	D	D
Nitrobenzene (Petroleum Ether)	A	B	C
Nitroethane	D	C	B
Nitrogen	A	A	A
Nitrogen Tetroxide	D	D	D
Nitromethane	D	B	C
Octachlorotoluene	D	D	D
Octadecane	A	B	B
N-Octane	B	B	B
Octyl Alcohol	B	A	B
Oleic Acid	C	C	C
Oleum Spirits	B	C	B
Olive Oil	A	B	B
O-Dichlorobenzene	D	D	D
Oxalic Acid	B	B	B
Oxygen-Cold	B	A	A
Oxygen-(200-400°F)	D	D	D
Ozone	D	C	A
Paint Thinner, Duco	D	D	D

Palmitic Acid	A	B	C
Peanut Oil	A	C	B
Perchloric Acid	D	B	B
Perchloroethylene	B	D	D
Petroleum-Below 250°F	A	B	B
Petroleum-Above 250°F	D	B	D
Phenol (Carbolic Acid)	D	C	D
Phenylbenzene (Biphenyl) (Diphenyl)	D	D	D
Phenyl Ethyl Ether	D	D	D
Phenyl Hydrazine	D	D	D
Phorone (Diisopropylidene Acetone)	D	D	D
Phosphoric Acid-20%	B	B	A
Phosphoric Acid-45%	D	B	B
Phosphorus Trichloride	D	D	D
Pickling Solution	D	D	B
Picric Acid	B	A	B
Pinene	B	C	C
Pine Oil	D	D	D
Piperidine	D	D	D
Plating Solution-Chrome	*	D	D
Plating Solution-Others	A	D	A
Polyvinyl Acetate Emulsion	*	B	B
Potassium Acetate (Aqueous)	B	B	A
Potassium Chloride (Aqueous)	A	A	A
Potassium Cupro Cyanide (Aqueous)	A	A	A
Potassium Cyanide (Aqueous)	A	A	A
Potassium Dichromate (Aqueous)	A	A	A
Potassium Hydroxide (Aqueous)	B	B	A
Potassium Nitrate (Aqueous)	A	A	A
Potassium Sulfate (Aqueous)	A	A	B
Producer Gas	A	B	B
Propane	A	B	B
i-Propyl Acetate	D	D	D
n-Propyl Acetate	D	D	D
Propyl Acetone (Methyl Butyl Ketone)	D	D	D
Propyl Alcohol	A	A	A
Propyl Nitrate	D	D	D
Propylene	D	D	D
Propylene Oxide	D	D	D
Pydraul, 10E, 29 ELT	D	D	D
Pydraul, 30E, 50E, 65E, 90E	D	D	D
Pydraul, 115E	D	D	D
Pydraul, 230E, 312C, 540C	D	D	D
Pyranol, Transformer Oil	A	B	C
Pyridine	D	D	D
Pyroligneous Acid	D	B	B
Pyrrole	D	D	D
Radiation	C	B	C
Rapeseed Oil	B	B	B
Red Oil (MIL-H-5606)	A	B	B
RJ-1 (MIL-F-25558 B)	A	B	B
RP-1 (MIL-F-25576 C)	A	B	B
Sal Ammoniac	A	A	A
Salicylic Acid	B	A	*
Salt Water	A	B	A

Sewage	A	B	A
Silicate Esters	B	A	A
Silicone Greases	A	A	A
Silicone Oils	A	A	A
Silver Nitrate	B	A	A
Skydrol 500	D	D	D
Skydrol 7000	D	D	D
Soap Solutions	A	B	A
Soda Ash	A	A	A
Sodium Acetate (Aqueous)	B	B	A
Sodium Bicarbonate (Aqueous) (Baking Soda)	A	A	A
Sodium Bisulfite (Aqueous)	A	A	A
Sodium Borate (Aqueous)	A	A	A
Sodium Chloride (Aqueous)	A	A	A
Sodium Cyanide (Aqueous)	A	A	A
Sodium Hydroxide (Aqueous)	B	A	A
Sodium Hypochlorite (Aqueous) (Chlorox)	B	A	A
Sodium Metaphosphate (Aqueous)	A	B	B
Sodium Nitrate (Aqueous)	B	B	A
Sodium Perborate (Aqueous)	B	B	B
Sodium Peroxide (Aqueous)	B	B	B
Sodium Phosphate (Aqueous)	A	B	A
Sodium Silicate (Aqueous)	A	A	A
Sodium Sulfate (Aqueous)	A	A	A
Sodium Thiosulfate (Aqueous)	B	A	A
Soybean Oil	A	B	C
Stannic Chloride (Aqueous)	A	B	A
Stannous Chloride (Aqueous)	A	A	A
Steam Under 300°F	D	C	D
Steam Over 300°F	D	D	D
Stearic Acid	B	B	B
Stoddard Solvent	A	B	D
Styrene	D	D	D
Sucrose Solution	A	B	B
Sulfite Liquors	B	B	B
Sulfur	D	A	A
Sulfur Chloride (Aqueous)	C	C	B
Sulfur Dioxide (Dry)	D	D	B
Sulfur Dioxide (Wet)	D	B	A
Sulfur Dioxide (Liquified Under Pressure)	D	D	D
Sulfur Hexafluoride	B	A	B
Sulfur Trioxide	D	D	D
Sulfuric Acid (Dilute)	C	B	A
Sulfuric Acid (Conc.)	D	D	A
Sulfuric Acid (20% Oleum)	D	D	D
Sulfurous Acid	B	B	A
Tannic Acid	A	A	A
Tar, Bituminous	B	C	D
Tartaric Acid	A	B	A
Terpineol	B	D	D
Tertiary Butyl Alcohol	B	B	B
Tertiary Butyl Catechol	D	B	B
Tertiary Butyl Mercaptan	D	D	D
Tetrabromoethane	D	D	D
Tetrabromomethane	D	D	*

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Tetrabutyl Titanate	B	B	A
Tetrachloroethylene	D	D	D
Tetraethyl Lead	B	B	D
Tetrahydrofuran	D	D	D
Tetralin	D	D	D
Thionyl Chloride	D	D	D
Titanium Tetrachloride	B	D	D
Toluene	D	D	D
Toluene Diisocyanate	D	D	D
Transformer Oil	A	B	C
Transmission Fluid Type A	A	B	B
Triacetin	B	B	B
Triaryl Phosphate	D	D	D
Tributoxy Ethyl Phosphate	D	D	D
Tributyl Mercaptan	D	D	D
Tributyl Phosphate	D	D	D

Trichloroacetic Acid	B	D	D
Trichloroethane	D	D	D
Trichloroethylene	D	D	D
Tricresyl Phosphate	D	C	D
Triethanol Amine	B	A	B
Triethyl Aluminum	D	D	D
Triethyl Borane	D	D	D
Trinitrotoluene	D	B	B
Trioctyl Phosphate	D	D	D
Tung Oil (China Wood Oil)	A	B	C
Turbine Oil	B	D	D
Turpentine	A	D	D
Unsymmetrical Dimethyl Hydrazine	B	B	A
Varnish	B	D	D
Vegetable Oils	A	C	B

Versilube F-50	A	A	A
Vinegar	B	B	A
Vinyl Chloride	D	D	D
Wagner 21B Brake Fluid	C	B	B
Water	A	A	A
Whiskey, Wines	A	A	A
White Pine Oil	B	D	D
White Oil	A	B	D
Wood Oil	A	B	C
Xylene	D	D	D
Xylidine (Di-methyl Aniline)	C	C	D
Zeolites	A	A	A
Zinc Acetate (Aqueous)	B	B	A
Zinc Chloride (Aqueous)	A	A	A
Zinc Sulfate (Aqueous)	A	A	A

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