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The following chemical resistance ratings are based on published research data. Microflex® gloves have not been individually tested against the chemicals contained in this chart.

Chemicals	CNATURAL RUBBER) Nitrile (BUNA N)	Chemicals	(NATURAL RUBBER) (BUNA N)
Acetaldehyde		Hydrogen peroxide (30% concentration)	
Acetamide		Hydrogen peroxide (concentrated)	
Acetic acid (50% concentration)		Hydroquinone	
Acetone		Hydroxylamine hydrochloride	The second second
Acetonitrile		Imidazole	Transmitted in the latest and the la
Acetophenone	2	Isobutanol (isobutyl alcohol)	
Acetyl chloride		Isooctane	
Acrylamide (same as 2-propenamide)		Isopropanol (isopropyl alcohol)	
Acrylic acid		Kerosene	
Aircraft stripper		Ketones	
Aluminum nitrate (nonhydrous) (10% concentration)		Lacquers	
Ammonia (anhydrous)		Lacquer thinners	
Ammonium benzoate (same as benzoic acid)		Lactic acid (85% concentration)	
Ammonium hydroxide (30% concentration)		Laurel alcohol (lauryl alcohol)	
Ammonium hydroxide (concentrated)		Lauric acid (36% concentration)	
Ammonium oxalate		Lead acetate	
Ammonium sulfate (aqueous)		Linoleic acid	
Amyl acetate		Linseed oil	
Aniline		Lubricants (containing mineral spirits as primary component)	
Antifreeze (methanol-based)		Maleic acid	
Benzaldehyde		2-Mercaptoethanol	
Benzene		Mercuric chloride	
Benzoic acid		Mercury	
Boric acid		Methane	
Brake cleaner (containing hexane or ethanol)		Methyl alcohol (methanol)	
Brake cleaner, non-chlorinated (containing acetone, n-heptane and/or xylene)		2-Methoxyethanol (ethylene glycol monomethyl)	
Brake fluid		Methyl amine	
Bromine (anhydrous liquid)		Methyl bromide	
Bromoethane (methyl bromide)		Methyl butyl ketone	
Butyl acetate		Methylene chloride	
n-Butyl alcohol (propyl carbinol)		Methyl chloride	
n-Butyl chloride	S	Methyl ethyl ketone (MEK)	
1, 3-Butylene glycol (1,3-butanediol)		Methyl isobutyl ketone (MIBK)	
Calcium chloride (aqueous)		Methyl methacrylate	
Calcium hydroxide (dental)		Mineral spirits	
Carbamide peroxide (urea+hydrogen peroxide at 1:1 ratio)		Monoethanolamine	
Carbon dioxide		Morpholine	

Carbon disulfide	Motor oil (includes oils made from petroleum distillates, synthetic oils, diesel oils, 2-stroke oils, and hy	draulic oits)
Carbon tetrachloride	Naphtha	
Carburetor cleaner (typically xylene, toluene and/or acetone	Naphthalene	
Castor Oil	Nitric acid (50% concentration)	
Chlorine (wet)	Nitromethane (95.5% concentration)	
Chlorobenezene	Nitropropane (95.5% concentration)	
Chloroform	Nitrophenols	
o-Chloronaphthalene	Octyl alcohol (octanol)	
Chromic acid (50% concentration)	Oleic acid	
Citric acid (10% concentration)	Oxalic acid	
Clonidine hydrochloride (0.1% concentration)	Paint (latex-based)	
Cresols	Paint (oil-based)	
Cupric sulfate (copper sulfate)	Paint, automotive (paint containing V.M.&P. naphtha, mineral spirits; with small amounts of toluene, xylene or	n-butyl scetate)
Cyanic compounds	Paint, automotive (paints containing large amounts of toluene, xylene or n-butyl acetate)	
Cyclohexane	Paint activator, automotive (containing MEK, polyisocyanate resin, and/or butyl ace	
Cyclohexanol	Paint reducers/thinners, automotive (aliphatic hydrocarbons, eg. V.M.&P. naphtha or	
Cyclohexanone	Paint reducers/thinners, automotive (aromatic hydrocarbons, eg. toluene or x	
Decahydronaphthalene (decalin)	Paint thinner (Duco)	
Denatured alcohol	Palmitic acid	
Dental etching material	Paraformaldehyde	-
Dental resin cement	Parts wash, automotive (containing naphtha, n-hexane, cyclohexane and/or MEK)+Al	54
Dental waxes	Pentane	
Denture polishing material	Pentyl ether (same as pentane)	Commence of the Commence of th
Detergent solutions I	Perchloric acid (60% concentration)	
Developing fluids	Perchloroethylene Perchloroethylene	
Diamond polishing paste	Periodic acid (50% concentration)	
Dibutyl phthalate	Petroleum distillates (naphthas)	
o-dichlorobenzene	Phenol (0.1% concentration)	
p-dichlorobenzene	Phenol (approx. 100% concentration)	No. of the last of
Dichloromethane	Phenolphthalein (aromatic phenols)	
Diesel fuel	Phosphoric acid (0 to 50% concentration)	
Diesel fuel additive	Phosphoric acid (50-85% concentration)	
Diethylamine	Phosphoric acid (100% concentration)	
Diethylene glycol	Polysorbates	
Diisobutyl ketone (DIBK)	Potassium bromate	
N, N-dimethyl acetamide (same as dimethyl acetamide (DMAC), same as acetic acid)	Potassium chloride	
Dimethylformamide	Potassium cyanide	
Dimethyl sulfoxide (DMSO)	Potassium dichromate (aqueous)	
Dioctyl phthalate (DOP)	Potassium hydroxide	
Dioxane	Potassium iodide	
EDTA (17% solution)	Potassium permanganate	
Engine cleaner and degreaser (containing kersosene, petroleum distillates or propone-isobutane-n-butane as main components)	Potassium sulfate (potassium sulphate)	
Epoxy primer (containing toluene, acetone, MEK and/or n-butyl acetate)	Propyl acetate	
Ethanol (ethyl alcohol) (95% concentration)	Propyl alcohol	
Ethanolamine	Propylene (1-propene, methylethyelene)	No. 100 Personal Property of the Party of th
Ether	Propylene glycol	
Ethidium bromide (0.5% concentration)	Pyridine Pyridine	Control of the Control
2-ethoxyethanol (ethoxyethanol)	Rust inhibitors, automotive	
Ethyl acetate	Rust remover, automotive (containing <50% phosphoric aid)	
Ethyl ether	Silver nitrate (0.17N)	
Ethylene dichloride	Sodium acetate (aqueous)	
Ethylene glycol	Sodium azide (sodium salt)	

Ethylene oxide	Sodium bicarbonate (aqueous) (baking soda)
Ferric chloride (aqueous)	Sodium chloride (aqueous)
Formaldehyde	Sodium cyanide (aqueous)
Formalin (40% concentration of formaldehyde)	Sodium hydroxide (50% concentration)
Formamide	Sodium hypochlorite (bleach)
Formic acid (90% concentration)	Sodium selenate (10% concentration)
Freon 11	Sodium thiosulfate (developing fluids)
Freon 12	Staining rating (all stains)
Freon 21	Styrene
Freon 22	Sulfuric acid (50% concentration)
Fuel injector cleaner (primarily kerosene)	Sulfuric acid (93-98% concentration)
Furfural	Tannic acid (65% concentration)
Gasoline, leaded	Tetrachloroethylene
Gasoline, unleaded	Tetrahydrofuran
Glass ionomer dental cements	Tetramethylurea
Glucose	Toluene
Gluteraldehyde (50% concentration)	Toluene diisocyanate
Glycerin	Transmission fluid, Type A
Glycerol	Transmission fluid, synthetic
Grease, automotive (petroleum-based)	Trichloroethylene
Grease, automotive (silicon-based)	Triethanolamine
Grease, automotive (synthetic)	Triton X-100, Igepal CA, Polytergent G (octoxynol with varying ethylene oxide units)
Heptane (n-heptane)	Tung oil
Hexane	Turpentine
Hydraulic fluid (petroleum-based)	Undercoater, rubberized (automotive)
Hydrochloric acid (20% concentration)	Urea
Hydrochloric acid (50% concentration)	Varnish
Hydrochloric acid (concentrated)	Vinyl chloride
Hydroflouric acid (48% concentration)	Water
Hydroflouric acid (concentrated)	Wax remover, automotive (containing V.M.&P. naphtha, xylene and/or ethylbenzene)
Hydrogen peroxide (3% concentration)	Xylene (Xylol)

General Information and Cautions

Your understanding of how to use thin-film gloves is extremely important to your safety.

Microflex gloves are intended for use as protection against incidental exposure to chemicals and other harmful substances. These gloves do not offer protection against all chemicals under all conditions, and are not designed to provide protection against prolonged or continuous exposure to harmful substances.

As a precaution, glove users are advised to change gloves immediately upon exposure to harmful substances. It is the responsibility of the user to choose the appropriate glove type, thickness and to change gloves as they become contaminated.

This Chemical Resistance Chart is offered as a guide and for reference purposes only. The chemical resistance ratings are based on published research data. Microflex cannot certify the accuracy of the data and therefore does not represent nor warrant that the information in the chemical resistance chart is accurate or complete. Microflex gloves have **NOT** been individually tested against the chemicals contained in this chart. The barrier properties of each glove type may be affected by differences in material

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NO DATA

- CHEMICAL RATINGS KEY-

against the chemicals contained in this chart. The barrier properties of each glove type may be affected by differences in material thickness, chemical concentration, temperature, and length of exposure to chemicals.

References

Chemical Resistance Guide to Elastomers III; A Guide to Chemical Resistance of Rubber and Elastomeric Compounds, Compass Publications, La Jolla, CA, 2005. Plastics Design Library-Chemical Resistance of Plastics and Elastomers, 3rd edition, William Andrew Publishing, 2003. Dupont Dow Elastomers Chemical Resistance Guide; The Los Angeles Rubber Group; www.dupont-dow.com