



# Chemical Resistance of Plastic Components

<b>Catalog Number</b>	<b>Notes</b>	<b>Type</b>

Certain airborne chemicals may exist in end-user locations that can impact the safety and integrity of acrylic and polycarbonate components. Damage, such as crazing, cracking, permeation losses and mechanical failure may occur. The list below contains many common chemicals, but is not intended to be all inclusive. Installing RENOVA products in areas where such chemicals may become mists or airborne vapors will void all warranties associated with the product.

RENOVA Lighting Systems, Inc. makes no other representations regarding the listed chemicals or their relationship to our products. Since the conditions and methods of use of the products and information referred to herein are beyond our control, RENOVA Lighting Systems, Inc. expressly disclaims any and all liability. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, express or implied, is made concerning the goods described or the information provided herein.

CHEMICAL	ACRYLIC	POLYCARBONATE
Acetic Acid	N	N
Acetaldehyde	N	N
Acetates	N	N
Acetic Anhydride	N	N
Acetone	N	N
Acetonitrile	N	N
Acetophenone	N	N
Acrylic Paints	N	U
Allyl Alcohol	N	N
Aluminum Hydroxide	N	N
Ammonia	LR	N
Ammonium Chloride	R	R
Ammonium Hydroxide	R	N
Ammonium Phosphate	R	R
Amyl Acetate	N	N
Amyl Alcohol	N	N
Aniline	N	N
Anti-freeze	R	R
Aromatic Hydrocarbons	N	N
Aromatic Solvents	N	N
Aviation Fuel	N	N
Battery Acid	R	U
Benzaldehyde	N	N
Benzene	N	N
Benzoic Aldehyde	N	N
Benzyl Alcohol	N	N

CHEMICAL	ACRYLIC	POLYCARBONATE
Bituminous Emulsions	N	U
Brake Fluid	N	N
Bromine Gas	N	N
Butadiene	U	N
Butane	R	N
Butanol	N	U
Butraldehyde	N	U
Butyl Acetate	N	N
Butyl Acetyl Ricinoleate	N	N
Butyl Lactate	N	U
Butyl Stearate	N	N
Calcium Hypochlorite	R	N
Calcium Chloride	R	U
Carbolic Acid	N	N
Carbon Dioxide gas	R	R
Carbon Disulfide	N	N
Carbon Monoxide gas	R	R
Carbon Tetrachloride	N	N
Caustic Potash	R	U
Cellulose Paints	N	N
Chlorinated Hydrocarbons	N	N
Chlorinated Solvents	N	N
Chlorine Gas	N	N
Chloroform	N	N
Chlorophenol	N	N
Chromic Acid	LR	N

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CHEMICAL	ACRYLIC	POLYCARBONATE
Citric Acid (20%)	R	LR
Cloves/ Clove Oil	N	N
Cosmoline Removers	N	N
Cottonseed Oil	R	R
Cresol	N	N
Cutting Fluids and Oils	N	N
Cyclohexane	N	R
Cyclohexanone	N	N
Cyclohexene	N	N
Deisel Oil	R	U
Detergent Solution (heavy duty)	R	U
Diacetone Alcohol	N	N
Diamyl Phthalate	N	N
Dibutyl Sebacate	N	N
Diethyl Ether	N	N
Diethylene Glycol	R	R
Dimethyl Formamide	N	N
Diocetyl Phthalate	N	N
Dioxane	N	N
Epoxy Adhesives	R	R
Ether	N	N
Ethyl Acetate	N	N
Ethyl Alcohol	N	N
Ethyl Bromide	N	N
Ethyl Butyrate	N	N
Ethylene Bromide	N	N
Ethylene Dibromide	N	N
Ethylene Dichloride	N	U
Ethylene Glycol	R	R
Ethylene Oxide	N	N
Ferric Chloride	R	R
Fluorides	N	U
Formaldehyde	LR	LR
Formic Acid	N	U
Freon	U	N
Gasoline	N	N
Glass Cleaners	U	N
Glycerine	R	R
Glycol	N	U

CHEMICAL	ACRYLIC	POLYCARBONATE
Heptane	R	R
Hexane	R	LR
Hydrobomic Acid	N	N
Hydrochloric Acid	LR	LR
Hydrofluoric Acid	N	N
Hydrogen Peroxide	LR	LR
Hydrogen Sulfide	R	U
Iodine	N	N
Iron Perchloride	N	U
Isocane	N	N
Isopropyl Alcohol	N	N
Kerosene	LR	N
Ketones	N	N
Lacquer Thinner	N	N
Lactic Acid	N	N
Medicinal Paraffin	R	R
Mercury Chloride	N	U
Meta Cresol	N	N
Metal Carbonates	R	R
Metal Chlorides	R	R
Metal Sulfates	R	R
Methane Gas	R	R
Methyl Alcohol	N	N
Methyl Benzoate	N	N
Methyl Chloride	N	N
Methyl Cyclohexanol	N	N
Methyl Ethyl Ketone	N	N
Methyl Naphthalene	N	N
Methyl Salicylate	N	N
Methylamine	N	N
Methylene Chloride	N	N
Methylene Dichloride	N	N
Mineral Oil / Spirits	N	N
Motor Oil	R	R
Nail Polish	N	N
Naphtha	N	N
Naphthenic Acids	U	N
Natural Gas	R	R
N-butyrlic Acid	N	N

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CHEMICAL	ACRYLIC	POLYCARBONATE
Nitric Acid	N	N
Nitric Oxide	R	U
Nitrobenzene	N	N
Nitrocellulose	N	U
Nitrogen Dioxide Gas	R	R
Nitrogen Monoxide Gas	R	U
n-Octane	N	N
Olefric Carboic Acids	R	U
Oleic Acid	R	R
Oleum	N	N
Olive Oil	R	R
Organic Solvents	N	U
Oxalic Acid	R	R
Oxygen Gas	R	R
Ozone Gas	R	U
Paint Removers	N	N
Paint Thinner	N	N
Perchlorethylene	N	N
Petroleum Ether	N	LR
Phenol Solutions	N	N
Phosphoric Acid	N	LR
Phosphoric Trichloride	N	U
Photographic Baths	R	R
Phthalates	N	N
Potassium Chlorate	R	R
Potassium Cyanide	R	U
Potassium Dichromate	LR	LR
Potassium Hydroxide	LR	N
Potassium Permanganate	R	R
Potassium Sulfite	R	R
Power Steering Fluid	R	R
Propane	U	N
Propylene	R	R
Pyridine	N	N
Salicylic Acid	N	LR
Silicon Tetrachloride	N	U
Silicone Oil	R	R

CHEMICAL	ACRYLIC	POLYCARBONATE
Silver Nitrate	R	R
Soap Solution (mild)	R	R
Sodium Carbonate	R	R
Sodium Chloride	LR	LR
Sodium Cyanide	R	U
Sodium Fluoride	R	U
Sodium Hydroxide	LR	N
Sodium Hypochlorite (5%)	R	LR
Sodium Nitrate	R	N
Sodium Phosphate	N	U
Sodium Sulfide	N	U
Sodium Thiosulphate	R	R
Stearic Acid	R	R
Sulfoxides	N	N
Sulfur Dioxide	N	N
Sulfuric Acid	LR	LR
Sulfurous Acid	N	N
Tartaric Acid	R	R
Tea	U	N
Toluene	N	N
Transformer Oil	N	N
Transmission fluid	R	R
Trichloroethane	N	N
Trichloroacetic Acid	N	N
Trichloroethylene	N	N
Tricresyl Phosphate	R	U
Triethanalomine	U	N
Triethyl Amine	R	U
Turadehyde	U	U
Turpentine	N	N
Urea	U	N
Vegetable oil	N	LR
Vinegar	R	R
Water	R	R
Wax Polish	R	R
Whitewash	R	U
Xylene	N	N

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