

Certain chemicals that may exist in end-user locations release airborne contaminants that can impact the integrity and safety of key fixture components that contain acrylic or polycarbonate material. Immediate damage may occur such as crazing, cracking, permeation losses and mechanical failure. Products with visually noticeable deterioration have diminished integrity and must be replaced immediately with a more suitable product for the application.

The following tables identify the most common chemicals and is not intended to be all-inclusive. Exposure to compounds identified as "Not Acceptable" will void all warranties associated with the product. Acrylic or polycarbonate components should not be used in areas where these chemicals are used and where these chemicals become mists or airborne vapors. Ensure that chemical interactions are considered when selecting fixtures. For additional information please consult an authorized factory representative.

The statements, technical information and recommendations obtained herein are believed to be accurate as of June 1, 2009. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Acuity Brands Lighting 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. The user should thoroughly test any application before commercialization.

Rating is based on visual appearance at ambient temperature 68°F, 50% humidity. Consult factory where applicable. All technical information is believed to be accurate as of June 1, 2009.

ACRYLIC ENVIRONMENTAL COMPATIBILITY

NOT ACCEPTABLE		
Acetaldehyde	Cinnamon Oil	Methyl Naphthalene
Acetates	Cloves	Methyl Salicyclate
Acetic Acid, 50%+	Cosmoline Removers	Methylamine
Acetic Anhydride	Cresol	Methylene Dichloride
Acetone	Cyclohexane	Mineral Oil @ 40°C+
Acetonitrile	Cyclohexanone	Nail Polish
Acetophenone	Cyclohexene	Naphtha
Acrylic Paints	Diacetone Alcohol	n-butyrac Acid, 100%
Alcohol, Allyl	Diamyl Phthalate	Nitric Acid, 40%+
Alcohol, Amyl	Dibutyl Sebacate	Nitrobenzene
Alcohol, Benzyl	Diethyl Ether	Nitrocellulose
Alcohol, Butyl (Butanol)	Dimethyl Formamide	n-Octane
Alcohol, Ethyl (Ethanol), 50%+	Diocetyl Sebacate	Oleum
Alcohol, Isopropyl	Dioxane	Organic Solvents
Alcohol, Methyl (Methanol), 10%+	Ether	Paint Removers
Aluminum Hydroxide	Ethyl Acetate	Paint Thinner
Amyl Acetate	Ethyl Bromide	Perchlorethylene
Ammonia @ 40°C+	Ethyl Butyrate	Petroleum Ether (100-120°C)
Aniline	Ethylene Bromide	Phenols
Aromatic Solvents	Ethylene Chloride	Phosphoric Acid, 95%
Aviation Fuel (100 Octane)	Ethylene Dibromide	Phosphoric Trichloride
Benzaldehyde	Ethylene Oxide (Moist)	Phthalates
Benzene	Fluorides	Pyridine
Benzoic Aldehyde	Formic Acid	Salicylic Acid
Bituminous Emulsions	Fuels w/ Benzene (Gasoline)	Silicon Tetrachloride
Brake Fluid	Glycol	Sodium Phosphate
Bromine Gas	Hydrocarbon oil	Sulfoxides
Butraldehyde	Hydrofluoric Acid	Sulfur Dioxide, Liquid
Butyl Acetyl Ricinoleate	Hydrochloric Acid, 40%+	Sulfuric Acid, 65% @ 40°C+
Butyl Lactate	Hydrogen Peroxide, 40%+	Sulfurous Acid, Concentrated
Butyl Stearate	Iron Perchloride	Tincture of Iodine, 5%
Carbolic Acid	Isoctane	Toluene
Carbon Disulfide	Ketones	Transformer Oil
Carbon Tetrachloride	Lacquer Thinner	Trichloroethane
Cellulose Paints	Lactic Acid Butyl Ester	Trichloroacetic Acid
Chlorinated Hydrocarbons	Mercury Chloride	Trichloroethylene
Chlorinated Solvents	Meta-Cresol	Turpentine
Chlorine Gas	Methyl Benzoate	Vegetable Oil
Chlorophenol	Methyl Chloride	Xylene
Chromic Acid	Methyl Cyclohexanol	

Catalog Number
Notes
Type

Acrylic & Polycarbonate Compatibility

ACCEPTABLE		
2-Ethylhexyl Sebacate	Glycerol (Glycerine)	Potassium Cyanide
Acetic Acid, 5%	Heptane	Potassium Dichromate, 10%
Ammonia Gas @ 25°C	Hexane	Potassium Hydroxide @ 25°C
Ammonium Hydroxide, 28%	Hydrochloric Acid, 38%	Potassium Permanganate
Ammonium Nitrate	Hydrogen Peroxide, 30%	Potassium Sulfite
Ammonium Phosphate	Hydrogen Sulfide	Power Steering Fluid
Aniseed, Bay Leaves, Nutmeg	Kerosene	Propylene
Anti-freeze	Lactic Acid, 20%	Pure-oil Paints
Beer	Metal Carbonates	Silicone Oil
Bleaching Powder Paste	Metal Chlorides	Silver Nitrate
Bleaching Powder Solution, 5%	Metal Sulfates	Soap Suds
Butane	Methane Gas	Sodium Chloride, 10%
Calcium Hypochlorite	Milk	Sodium Cyanide
Car Wash Detergent	Motor Oil	Sodium Fluoride
Carbon Dioxide Gas	Natural Gas	Sodium Hydroxide, 60%
Carbon Monoxide Gas	Nitric Acid, 20%	Sodium Hypochlorite, 15%
Caustic Potash	Nitric Oxide	Sodium Nitrate
Chlorine Based Cleaners @ 25°C	Nitrogen Dioxide Gas	Sodium Thiosulphate, 40%
Chlorine, Aqueous, 2%	Nitrogen Monoxide Gas	Stearic Acid
Citric Acid, 20%	Olefinic Carbolic Acids	Sulfur Dioxide, Dry Gas
Coffee (Unflavored)	Oleic Acid	Sulfuric Acid, 30% @ 25°C
Cooking Oil	Olive Oil	Sulfurous Acid, 5%
Cottonseed Oil	Oxalic Acid, 100%	Tartaric Acid, 50%
Diethylene Glycol	Oxygen Gas	Transmission Fluid
Epoxy Adhesives	Ozone Gas	Tricresyl Phosphate
Ethyl Alcohol, 15%	Paraffin, Medicinal	Triethyl Amine
Ethylene Glycol	Pepper, Onions	Vinegar
Ethylene Oxide (Dry)	Phosphoric Acid, 10%	Wax Polish
Ferric Chloride, Aqueous, 10%	Photographic Baths	Whitewash
Formaldehyde, Aqueous, 40%	Polishing Compounds	Wine
Fruit Juice	Potassium Chlorate	

Acrylic & Polycarbonate Compatibility

POLYCARBONATE ENVIRONMENTAL COMPATIBILITY

NOT ACCEPTABLE		
Acetaldehyde, 100%	Chlorine	Methyl Ethyl Ketone
Acetates	Chlorine-base Cleaners (Clorox)	Methyl Naphthalene
Acetic Acid, Glacial, 100%	Chlorophenol	Methyl Salicyclate
Acetic Anhydride	Diacetone Alcohol	Methylamine
Acetone	Chromic Acid	Methylene Dichloride
Acetonitrile	Clove Oil	Mineral Oil @ 40°C+
Acetophenone	Cosmoline Removers	Mineral Spirits
Alcohol, Allyl	Cresol	Nail Polish
Alcohol, Amyl	Cutting Fluids and Oils	Naphtha (Petroleum Ether)
Alcohol, Benzyl	Cyclohexane	Naphthenic Acids
Alcohol, Ethyl (Ethanol), 50%	Cyclohexanone	n-butyrlic Acid, 100%
Alcohol, Isopropyl, 100%	Cyclohexene	Nitric Acid, 25%+
Alcohol, Methyl (Methanol), 50%	Diamyl Phthalate	Nitrobenzene
Aluminum Hydroxide	Dibutyl Sebacate	n-Octane
Amines	Diethyl Ether	Oleum
Ammonia	Dimethyl Formamide	Paint Removers
Ammonium Chloride	Diethyl Sebacate	Paint Thinner
Ammonium Phosphate	Dioxane	Perchlorethylene
Ammonium Sulfate	Ether	Phenols
Ammonium Hydroxide	Ethyl Acetate	Phenol, Aqueous, 5%
Amyl Acetate	Ethyl Alcohol, Concentrated	Phthalates
Anti-freeze	Ethyl Bromide	Potassium Hydroxide (Potash)
Aniline	Ethyl Butyrate	Propane
Aromatic Hydrocarbons	Ethylene Bromide	Pyridine
Aviation Fuel	Ethylene Dibromide	Sodium Hydroxide
Benzaldehyde	Ethylene Oxide	Sodium Hypochlorite, 30%
Benzene	Freon	Sodium Nitrate
Benzoic Aldehyde	Fuels w/ Benzene (Gasoline)	Sodium Sulfide
Brake Fluid	Glass Cleaners	Sulfoxides
Bromine	Hydrocarbon oil	Sulfur Dioxide
Butadiene	Hydrochloric Acid, 25%+	Sulfuric Acid, 70%+
Butane	Hydrofluoric Acid	Sulfurous Acid
Butyl Acetyl Ricinoleate	Hydrogen Peroxide, 40%+	Tincture of Iodine, 5%
Butyl Stearate	Isoctane	Toluene
Car Wash Detergent	Kerosene	Transformer Oil
Calcium Hypochlorite	Ketones	Trichloroacetic Acid
Carbolic Acid	Lacquer Thinner	Trichloroethane
Carbon Disulfide	Lactic Acid Butyl Ester	Trichloroethylene
Carbon Tetrachloride	Meta-Cresol	Triethanolamine
Cellulose Paints	Methyl Benzoate	Turpentine
Chlorinated Hydrocarbons	Methyl Chloride	Urea
Chlorinated Solvents	Methyl Cyclohexanol	Xylene

ACCEPTABLE		
Acetic Acid, 5%	Linseed Oil	Salicylic Acid @ 25°C
Aniseed, Bay Leaves	Metal Carbonates	Silicone Oil
Beer	Metal Chlorides	Silver Nitrate
Benzoic Acid	Metal Sulfates	Soap Solutions
Bleaching Powder Solution, 2%	Methane Gas	Sodium Bicarbonate
Boric Acid, 10%	Milk	Sodium Chlorate
Carbon Dioxide	Mineral Oil @ 25°C	Sodium Chloride, 10%
Carbon Monoxide	Motor Oil	Sodium Hypochlorite, 15%
Carbonic Acid	Natural Gas	Sodium Peroxide
Cinnamon, Onions	Nitric Acid, 10%	Sodium Thiosulphate, 40%
Citric Acid, 10%	Nitrogen Dioxide Gas	Stearic Acid
Cooking Oil	Oleic Acid	Sulfur Dioxide, Dry Gas
Cottonseed Oil	Olive Oil	Sulfuric Acid, 30%
Diethylene Glycol	Oxalic Acid, 10%	Sulfurous Acid, 5%
Epoxy Adhesives	Oxygen	Tannic Acid, 10%
Ethyl Alcohol, 15%	Paraffin, Medicinal	Tartaric Acid, 50%
Ethylene Glycol E	Phosphoric Acid, 30%	Tea
Fatty Acids @ 25°C	Photographic Baths	Transmission Fluid
Ferric Chloride, Aqueous, 10%	Polishing Compounds	Tripropylene Glycol
Formaldehyde, Aqueous, 40%	Potassium Bromate	Vegetable Oils
Fruit Juice	Potassium Bromide	Vinegar
Glycerol, Glycerine	Potassium Chlorate	Water, Mineral Water
Heptane	Potassium Dichromate, 10%	Wax Polish
Hexane @ 25°C	Potassium Permanganate	Wine
Hydrochloric Acid, 15%	Potassium Sulfate	Zinc Sulfate
Hydrogen Peroxide, 30%	Power Steering Fluid	
Lactic Acid, 20%	Propylene	