Material Compatibility Bulletin

Linear fluorescent sockets and acrylic lenses, reflectors and refractors should not be used in environments with exposure to certain chemicals. When used in machining or manufacturing processes, these chemicals can become airborne and reach fixtures indirectly. Chemical exposure to critical components may reduce their reliability, resulting in a possible electrical or mechanical failure of the product.

The data in the tables provided is based on legacy testing of raw plastic material samples done by, and field data compiled by, suppliers and is not intended to be all-inclusive. Using any of the listed sockets and acrylic components in an environment in which chemicals listed as “Not Compatible” may be present will void the warranty for the product containing the components at issue. Other than as expressly set forth herein, Cooper Lighting Solutions makes no other representation regarding the listed chemicals or their relationship to our products and expressly disclaims any and all other warranties, whether express or implied, other than those expressly set forth herein and in our terms and conditions of sale respecting our products

If plastic components exhibit signs of damage, including, without limitation, cracking or crazing, the product containing such components must be replaced immediately. Prior to selecting a replacement product, all chemical interactions should be reviewed or tested for the specific application. For further assistance, please contact Pre-Sales Technical Support.

Steve Ivory
Director of Sustaining Engineering

Acrylic Components (including lenses, reflectors and refractors)

Not Acceptable	
1, 2-dichloroethane	Fluorine
1, 4-dioxane	Formic Acid, 40% or more
1,2,4 Trichlorobenzene	Freon, TF
2, 4-dichlorophenol	Fuel Oil
2,2,4 Trimethylpentane	Gasoline
2-Methoxyethanol	Gluteraldehyde
Acetaldehyde	Hydrazine
Acetic Acid	Hydrochloric Acid, 45%
Acetic Anhydride	Hydrochloric Acid, 48%
Acetone	Hydrogen Peroxide
Acetonitrile	i-Butyl Alcohol
Acrylonitrile	Iodine Crystals
Adipic Acid	Isobutyl Alcohol
Allyl Alcohol	Isopropyl Acetate
Aluminum Hydroxide	Isopropyl Alcohol
Ammonia	Isopropyl Benzene
Aniline	Isopropyl Ether
Aqua regia	Jet Fuel
Benzaldehyde	Lacquer Thinner
Benzene	Malonate
Benzyl Acetate	Methyl Acetate
Benzyl Alcohol	Methyl Alcohol (Methanol)
Bromine	Methyl Ethyl Ketone
Bromobenzene	Methyl Isobutyl Ketone
Bromoform	Methyl Propyl Ketone
Butyl Chloride	Methylene Chloride
Butyric Acid	Methyl-t-Butyl Ether
Calcium Hypochlorite, saturated	Mineral Spirits
Carbazole	n-Amyl Acetate
Carbon Disulfide	n-Butyl Acetate
Carbon Tetrachloride	n-Butyl Alcohol
Cedarwood Oil	n-decane
Cellosolve Acetate	Nitric Acid
Chloroacetic Acid	Nitrobenzene
Chlorobenzene	p-Chloroacetophenone
Chloroform	p-Dichlorobenzene
Chromic Acid, 50%	Perchloroethylene
Cinnamon oil	Phenol, Crystals
Cresol	Phenol, Liquid
Cyclohexane	Phosphoric Acid, 85%
Cyclohexanone	Picric Acid
Cyclopentane	Propionic Acid
Decalin	Propylene Oxide
Diacetone alcohol	Resorcinol
Dibutyl phthalate	Salicylaldehyde
Diethyl Benzene	Salicylic Acid, Powder
Diethyl Ether	Salicylic Acid, saturated
Diethyl Ketone	Sulfur Dioxide, Wet or Dry
Dimethyl Formamide	Sulfuric Acid, 60%
Dioctyl phthalate	Sulfuric Acid, 98%
Dioxane	t-Butyl Alcohol
Ether	Tetrahydrofuran
Ethyl Acetate	Thionyl Chloride
Ethyl Alcohol (Ethanol)	Toluene
Ethyl Benzene	Tributyl Citrate
Ethyl Benzoate	Trichloroacetic Acid
Ethyl Butyrate	Trichloroethane
Ethyl Chloride liquid	Trichloroethylene
Ethyl Cyanoacetate	Turpentine
Ethyl Lactate	Undecyl Alcohol
Ethylene Chloride	Vinylidene Chloride
Fluorides	Xylene

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Polycarbonate Components (including sockets and lenses)

Not Acceptable	
Acetic Anhydribe	Ethyl Chloride
Acetone	Ethylene Bromide
Acetyl Chloride (dry)	Ethylene Chloride
Acetylene	Ethylene Chlorohydrin
Acrylonitrile	Ethylene Dichloride
Amines	Ethylene Oxide
Ammonia	Ferrous Chloride
Ammonia (Anhydrous)	Fluorine
Ammonium Hydroxide	Hydrazine
Amyl Acetate	Hydrocloric Acid 35% or Greater
Aniline	Hydrofluoric Acid 20% or Greater
Aniline Hydrochloride	Isopropyl Acetate
Aqua Regia	Isopropyl Ether
Barium Hydroxide	Kerosene
Barium Nitrate	Ketones
Barium Sulfate	Lacquers
Benzaldehyde	Lithium Hydroxide
Benzene	Lye: Ca(OH)2 Calcium Hydroxide
Benzene Sulfonic Acid	Lye: KOH Potassium Hydroxide
Benzol	Lye: NaOH Sodium Hydroxide
Bromine	Mercury
Butadiene	Methyl Alcohol (Methanol)
Butane	Methyl Butyl Ketone
Butyl Acetate	Methyl Cellosolve
Butyl Amine	Methyl Chloride
Butyl Phthalate	Methyl Ethyl Ketone
Butylene	Methyl Isobutyl Ketone
Butyric Acid	Methyl Isopropyl Ketone
Calcium Bisulfate	Methyl Methacrylate
Calcium Bisulfite	Methylene Chloride
Calcium Carbonate	Mineral Spirits
Calcium Hydroxide	Nickel Nitrate
Calcium Hypochlorite	Nitric Acid
Carbon Disulfide	Nitrobenzene
Carbon Tetrachloride	Nitromethane
Chlorine (Anhydrous Liquid)	Orange Oil
Chlorine (dry)	Ozone >5ppm
Chloroacetic Acid	Perchlorethylene
Chlorobenzene (Mono)	Phenol (Carbolic Acid)
Chloroform	Phosphoric Acid Anhydride
Chlorosulfonic Acid	Phosphorus Trichloride
Chromic Acid 10% or Greater	Potassium Hydroxide (Caustic Potash)
Copper Cyanide	Propane (liquefied)
Copper Nitrate	Pyridine
Cresols	Sodium Hydroxide
Cresylic Acid	Sodium Sulfide
Cyclohexanone	Sodium Thiosulfate (hypo)
Diacetone Alcohol	Sulfur Dioxide
Dichlorobenzene	Sulfuric Acid 35% or greater
Dichloroethane	Tannic Acid
Diethyl ether	Toluene
Diethylamine	Trichloroacetic Acid
Dimethyl Aniline	Tricholoroethane
Dimethyl formamide	Turpentine
Dioxane	Urea
Ethyl Acetate	Xylene
Ethyl Benzoate	

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