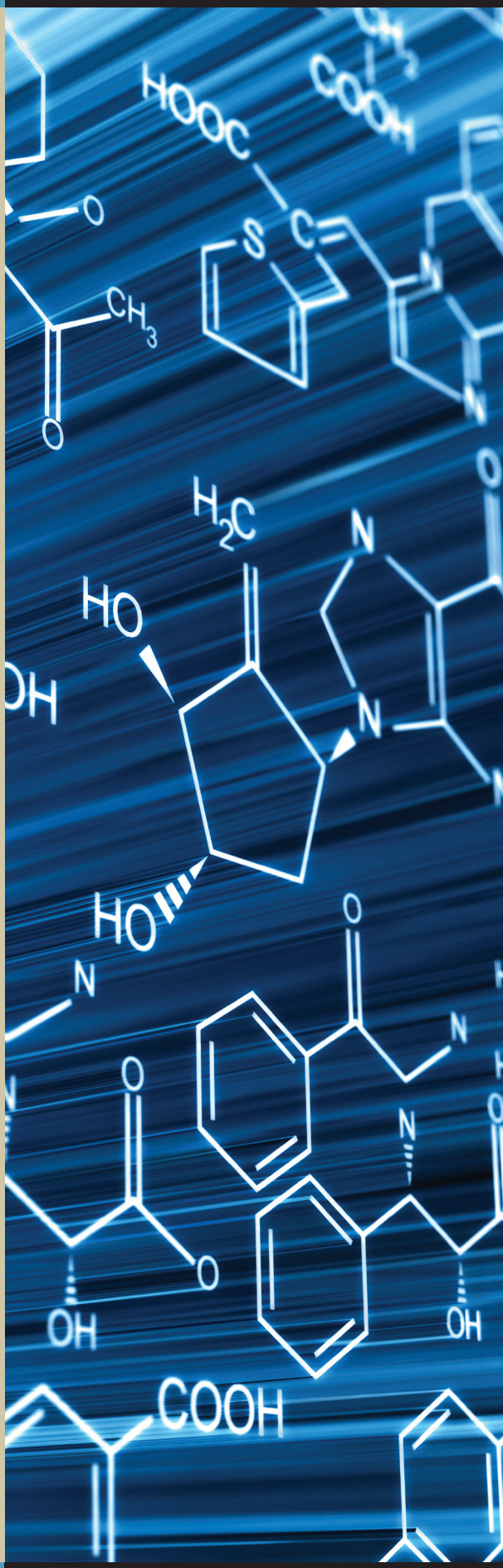
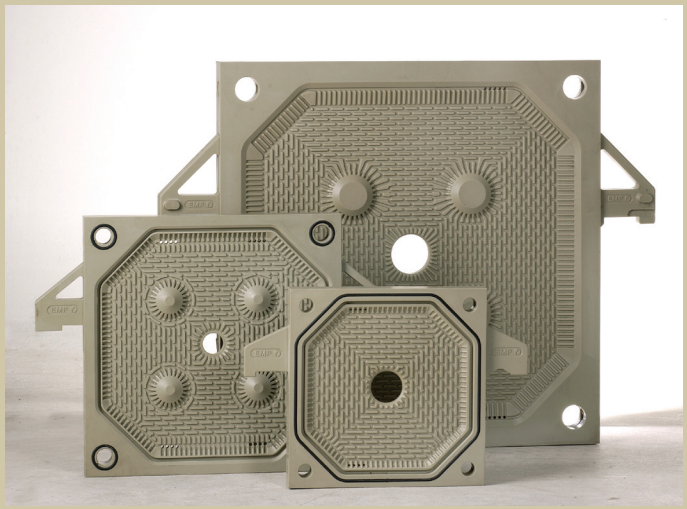
EnviroTech
MOLDED PRODUCTS, INC.
A MEMBER OF THE KLINKAU GROUP





CHEMICAL RESISTANCE GUIDE

EnviroTech
MOLDED PRODUCTS, INC.
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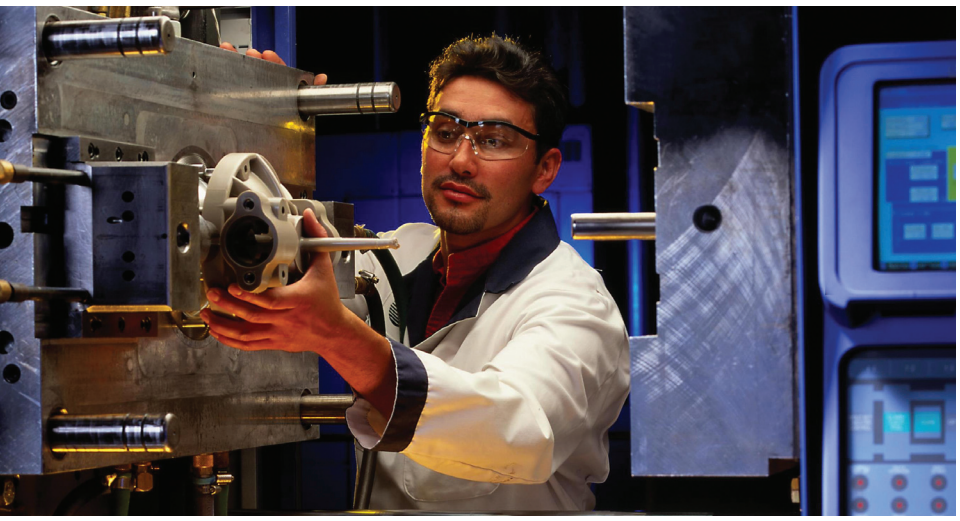
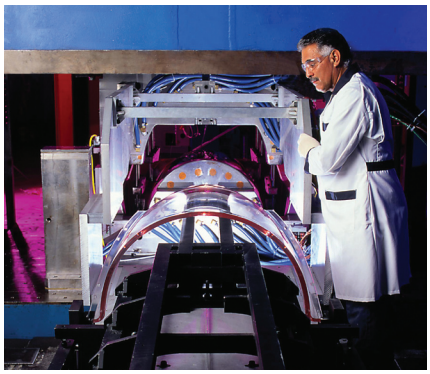
NOT JUST ANOTHER INJECTION MOLDER

"Parts made by the EnviroTech Injection Process defy all the usual rules of plastic fabrication. Normally, it's considered impossible to mold plastics anywhere close to five inches thick or 350 pounds in weight. EnviroTech does it routinely."

— PRODUCT ENGINEERING MAGAZINE —





BULK INJECTION MOLDING

- **Large parts** – Up to 530 lb. shot (241 KG)
- **Heavy wall sections** – Up to 5" thick (128 mm)
- **21 Bulk injection machines** – Up to 2500-ton clamp capacity and 96" x 120" platen

CONVENTIONAL INJECTION MOLDING

- **Wide Range** – 2 oz. to 35 lb. shot (with use of intrusion molding)
- **Heavy wall sections** – Up to 3" thick (76 mm)
- **5 Conventional injection machines** – machine size ranging from 75 ton to 1000 ton

MACHINING & PRODUCTION

- **8 high speed CNC mills** – Maximum horizontal machine travel is 121" x 85"
- **Secondary Operations** – Hot stamping, hot knife bonding, hot wire bonding, hot air welding, hydrostatic pressure testing, assembly and packaging

MATERIALS

- **Polypropylene to PEEK** – PP, PE, Nylon, PVDF, PC, TPE, and most engineering resins

EnviroTech
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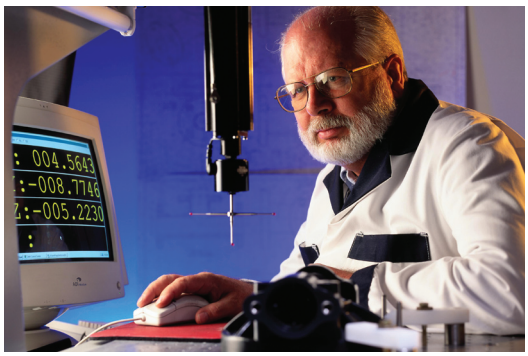
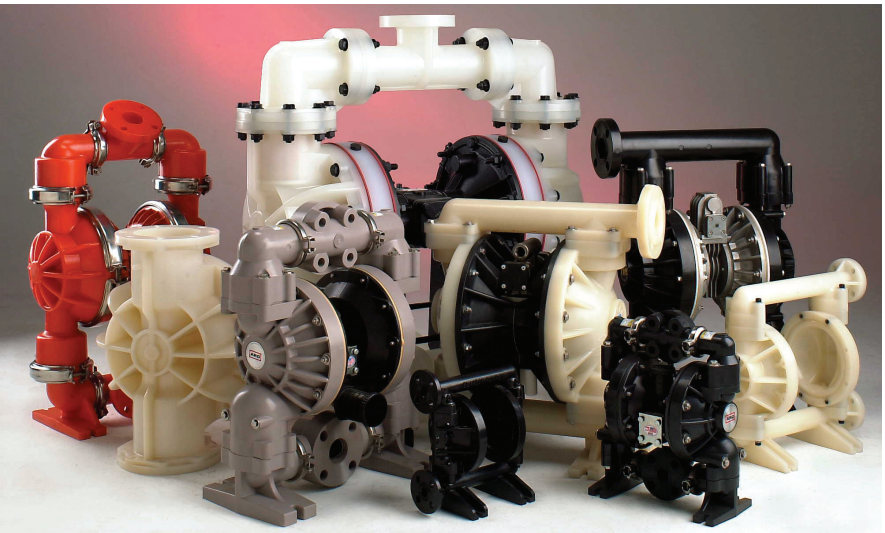
ENVIROTECH MOLDED PRODUCTS IS COMMITTED TO:

Do it right the first time • Never pass on a defect to a customer
Vigorous pursuit of constant improvements with a bias towards action
Problem solving, which always looks for root cause and not a temporary solution
Standardize work, which ensures consistent results • Fix it now





QUALITY CONTROL

- ISO 9001: 2000 registered
- Continuous process control and material analysis
- CMM and ultrasonic inspection

SALES & ENGINEERING

- Established in 1963 = 46+ years of part design and materials expertise
- Single source responsibility – from part design through production
- Quality products, on-time delivery, and exceptional customer service

CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

A No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Acetaldehyde	D	A[1]	A	D	A	A	B	-	D	-	A	D	D	A	A	C	-	A	-	D	A	A	C	C	C	D	A	D	B	-	A	C	A	A	A	A
Acetamide	-	B	A	-	A	A	B	-	-	-	A	D	A[1]	D	A[1]	A	A	A	-	D	A	A	B	D	B	A	B	B	-	-	D	D	-	A	-	A
Acetate Solvent	-	-	A	C	A	A	A	-	-	D	A	D	A	D	A[1]	A	-	A	-	D	C	A	C	C	D	C	C	D	A	A	C	D	A	A	A	A
Acetic Acid Glacial	D	C	A	C	A[2]	B[1]	D	-	A	A	A	A[1]	A[2]	D	A[2]	A[2]	C	A	A[1]	D	B	B	C	B	D	C	B	D	A	A	C	D	A	A	A	A
Acetic Acid 20%	C	B	A	A	A	A	D	A	A	A	A	A	A	C	A	A	B	A	A	D	B	A	A	B	A	B	A	B	A	A	C	D	A	A	A	A
Acetic Acid 80%	D	C	A	C	A	C	D	B	A	A	A	A	A[2]	D	A	A[2]	B	A	A	D	B	A	C	B	C	C	B	B	A	A	C	D	A	A	A	A
Acetic Acid	D	C	A	C	A	C	D	B	A	A	A	A	A[2]	D	A	A[2]	A	A	A	D	B	A	C	B	C	C	C	B	A	A	C	D	A	A	A	A
Acetic Anhydride	D	D	A	D	A	A	A[1]	-	-	D	A	D	D	A	B[1]	D	D	A	-	D	B	B	A	B	A	D	C	D	A[1]	B	C	-	A	A	A	A
Acetone	D	C	A	D	A	D	A	B	D	D	A	D	D	A	A	B[1]	D	A	C	D	A	A	B	C	C	D	B	D	A	A	A	A	A	A	A	A
Acetyl Chloride (dry)	D	D	-	C	A	A	D	-	-	D	A	C	A[2]	-	-	D	-	A	-	D	D	D	D	D	D	D	C	A	A	B	-	-	A	A	-	-
Acetylene	-	-	A	C	A	A	A	-	-	-	A	A[1]	A	A	A[1]	A	-	A	-	-	A	A	B	B	B	B	B	A	A	A	C	A	-	A	-	A
Acrylonitrile	D	-	B	A	-	A	A	-	-	-	-	-	A[1]	D	A	A	D	A	-	-	D	D	C	D	C	D	D	D	B[1]	A[1]	-	A[1]	B	A[1]	-	A
Alcohols: Amyl	-	A	A	A[2]	A	D	A[1]	-	-	C	A	A[2]	A	A	A	B[2]	C	A	-	B	A	A	A	B	A	B	D	B	B	A	A	-	A	A	B	A
Benzyl	D	A	-	A	A	A[1]	B	-	-	D	A	D	A	A	A	D	D	A	-	B	B	B	B	D	B	D	-	A	B[2]	A	A	A	A	A[1]	A	A
Butyl	-	A	-	A[2]	-	A	A	-	-	A	A	A[2]	A	C	A	A	C[1]	A	-	B	A	B	A	A	A	B	B	A	B	A	A	D	A	A	A	A
Diacetone	-	A	A	-	-	A	A	-	-	A	-	B[1]	A[1]	A	A[2]	B[1]	-	A	-	-	A	A	D	D	D	D	D	D	A[1]	A	A	A	A	A	A	A
Ethyl	B	B	-	A[1]	-	A[2]	A	A	A	A	-	A[2]	A	A	A	B	A	A	A	C	A	A	A	A	A	A	A	C	B	A	A	A	A	A	A	A
Hexyl	-	A	-	-	-	A	A	-	-	A	-	A[2]	A	A	A	A	-	A	-	-	D	C	B	A	B	A	B	C	A	A	A	A	A	A	A	A
Isobutyl	B	A	A	-	-	A	A[1]	-	-	A	-	A[1]	A	C	A[2]	A[2]	-	A[2]	-	-	A	A	A	A	A	B	A	A	B	A	A	C	A	A	B	A
Isopropyl	-	A	A	A[2]	-	A	B[1]	-	-	A[1]	-	A[1]	A	A	A[2]	A[2]	A	A[2]	-	-	A	A	A	A	B	B	A	A	B	A	A	C	B	A	A	A
Methyl	D	C	A	A[1]	A[1]	B[1]	A	A	A	A[1]	A	A[1]	A	A	A[2]	A[1]	B	A	B	-	A	A	A	A	A	A	A	C	A[1]	A	A	A	A	A	B	A
Octyl	-	A	-	-	-	A	A	-	-	A	-	-	A	A	-	A	-	-	-	-	B	A	B	B	B	B	B	B	A	A	A	A	C	A	A	A
Propyl	-	A	A	A[2]	-	A	B	-	-	A[2]	A	A[1]	A[2]	C	A	A[2]	-	A	-	-	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A
Aluminum Chloride 20%	-	C	A	A[1]	A	A[1]	D	-	A	A	A	A[1]	A	D	A	B[2]	A[1]	A	-	B	A	A	A	A	A	A	B	A	D	B[2]	D	D	A	C[1]	B	A
Aluminum Chloride	-	-	A	A[2]	A	A[1]	D	-	A	A	A	A[2]	A	-	A	B[2]	A[1]	A	-	B	A	A	A	A	A	A	B	A	A[1]	B[1]	D	D	A	C[1]	B	A
Aluminum Fluoride	-	C	A	A[2]	-	B[1]	A[1]	-	A	A[1]	A	A[2]	A	-	A	A[2]	-	A	-	-	A	A	A	B	A	A	B	A	B[1]	C	-	-	B	C[1]	A	-
Aluminum Hydroxide	-	B	A	A	A[1]	B[1]	A[1]	-	-	A	-	A[2]	A	D	A	A[2]	B	A	A	-	A	A	A[2]	D	A	A[2]	-	A	B[1]	A[1]	C	A	B	C[1]	B[1]	A
Aluminum Potassium Sulfate 10%	-	C	A	A[2]	A	A[1]	D	-	A	A[2]	-	A[2]	B	-	A	A[2]	-	A	-	B	A	A	A	A	A	A	A	A	C	A	-	D	C	B[2]	A	A
Aluminum Potassium Sulfate 100%	-	C	A	A[2]	A	A[1]	D	-	A	A[2]	-	A[2]	-	-	A	A[2]	-	A	-	B	A	A	A	A	A	A	A	A	C	B	-	D	C	B[2]	A	A
Aluminum Sulfate	-	C	A	A[2]	A	A[1]	A[2]	-	A	A	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	A	A	A	A	A	A	B[1]	B	C	D	B	B[1]	A	A
Amines	-	D	A	D	A	A[1]	D	-	-	D	B	D	D	D	-	C[1]	-	A[2]	-	-	A	B	D	B	B	D	B	D	B	B	D	D	C	A	B	A
Ammonia 10%	-	D	A	A	A	A[1]	B	-	A	A[1]	A[1]	B[1]	A	A	A	C[1]	B	A	-	B	A	A	D	D	A	A	-	D	A[1]	A[1]	D	A	A	A[1]	A	A
Ammonia Anhydrous	-	D	A	A	A	A	A[1]	-	-	B[1]	A[1]	A[2]	A	A	A	B[2]	-	A	-	B	A	A	D	D	C	B	D	D	A[1]	A	D	A	B	A[1]	A	A
Ammonia Liquids	-	D	A	A	A	A[1]	B[1]	-	-	-	A[1]	A[2]	A	A	A[2]	C[1]	-	A	-	B	A	A	D	D	A	C	-	D	C	B[2]	D	A	A	A	C	A
Ammonium Biflouride	-	D	A	A	-	A[1]	-	-	-	A	-	A[2]	A	A	A	A[2]	-	A	-	-	A	A[2]	-	-	A	A[2]	-	A	B	B	D	D	B	-	A	A
Ammonium Carbonate	-	D	A	A	-	A[1]	A	-	-	A[2]	A	A[2]	A	D	A	B[2]	-	A	-	B	A	A	-	A	A	D	-	-	B	B	D	A	B	B	A	A
Ammonium Casenite	-	D	-	-	-	A	-	-	-	A	-	-	-	D	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride	-	B	A	A[2]	A	A[1]	C	-	A	A	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	A	A	A	A	-	A	C	B	D	D	A	D	A	A
Ammonium Hydroxide	B	C[1]	A	A	A	A[1]	A	A	A	A	A	A	A	A	A	B[1]	B	A	-	B	A	A	A	D	A	D	A	B	B[2]	A	A	A	B	A[1]	A	A
Ammonium Nitrate	-	C	A	A[2]	A	A[1]	B	-	-	A	A	A[2]	A	D	A	A[1]	-	A	-	B	A	A	A	C	B	A	-	A	B[1]	A	D	A	B	A	A	A
Ammonia Oxalate	-	B	-	-	-	A	-	-	-	-	-	A	-	D	-	-	-	-	-	-	A	-	-	-	A	-	-	-	-	A	D	D	A	A	-	-
Ammonium Persulphate	-	D	A	A	A	A[1]	C[1]	-	-	A[1]	-	A[2]	A[1]	C	A	A[2]	A	A[1]	-	-	A	A	A	A	A	D	-	A	D	B	D	D	B	B	A	A
Ammonium Phosphate, Dibasic	-	B	A	A	A	A[1]	C[1]	-	-	A	-	A[2]	A	A	A	A[2]	-	A[2]	-	-	A	A	A	A	A	A	A	A	B[1]	A[1]	C	C	B	B	A	A
Ammonium Phosphate, Monobasic	-	B	-	A	-	A	B	-	-	A	-	A	A	A	A	A	-	A	-	-	A	A	A	A	A	A	A	A	B	C	D	D	B	C	A	A
Ammonium Phosphate, Tribasic	-	B	-	A	-	A	B	-	-	A	-	A	A	A	A	C	-	A	-	-	A	A	A	A	A	A	A	A	B	-	C	A	B	B	A	A
Ammonium Sulphate	-	-	A	A	A	A[1]	A[1]	-	-	A	A	A[2]	A	A	A	A[1]	-	A	-	-	A	A	A	A	A	A	A	A	A[1]	B	D	C	B	B	A	A
Ammonium Thio-Sulphate	-	B	-	-	-	A	-	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	-	A	A	-	-	-	-	D	D	-	A	A	A
Amyl-Acetate	-	A	A	C[1]	A[1]	A[1]	A[1]	-	B	D	A	C[1]	A[2]	D	A	C[1]	-	A	-	D	A	A	D	D	D	D	D	D	A	A	C	C	A	A	A	A
Amyl-Alcohol	-	A	A	A[2]	A	D	A[1]	-	-	C	A	A[2]	A	A	A	B[2]	-	A	-	B	A	A	A	B	A	B	D	B	B	A	A	-	A	A	B	A
Amyl Chloride	-	A	A	C	A	A[1]	C[1]	-	-	D	-	D	A	-	C	D	D	A	-	C	D	D	D	D	D	B[1]	D	A	A[1]	A[2]	A	-	A[1]	A[2]	C	A
Anniline	D	A[1]	A	C[1]	A[2]	C[1]	C[1]	-	D	D	A	C[1]	A[1]	D	A	B[2]	B	A	-	D	B	B	D	D	D	D	D	C	C	A	C	C	B	B	C	A
Anti-Freeze	B	D	-	A	-	A	D	A	A	A	-	A	A	A	A[1]	-	A	-	A	B	A	A	A	A	A	A	A	A	A	A	A	A	-	A	-	A
Antimony Trichloride	-	-	-	A[2]	A	-	D	-	-	A[2]	-	A[2]	A	-	A	B[2]	-	A	-	-	-	B[1]	-	-	-	-	-	A[2]	D	B	-	-	-	C[1]	B	-
Aqua Regia (80% HCl, 20% HNO3)	-	D	D	C[1]	A	D	D	C	-	D	D	C[1]	A[1]	D	B[1]	B[1]	-	A	-	D	D	C	C	D	D	D	D	B	D	D	D	-	C	D	A[1]	D
Arochior 1248	-	-	-	-	A[1]	A[1]	A	-	-	-	-	-	-	-	D	C[1]	-	A	-	-	B	B	D	D	D	C	B	A	A	-	-	-	A	B	A[1]	-
Aromatic Hydrocarbons	-	A	-	D	-	A	A	A	C	D	-	D	A[2]	A	D	C	D	-	-	-	C	D	D	D	D	C	D	A	A	-	C	A	-	C	-	-
Arsenic Acid	-	D	A	A[1]	-	A[1]	C[1]	-	-	A[1]	A	A[1]	A	A	A	B[2]	-	A	-	B	A	A	A	B	A	A	A	A	D	A[1]	D	D	B	A[2]	B	A
Asphalt	-	A	A	A[2]	A	A	A	-	-	-	A	A[2]	A	D	B[1]	A[1]	-	A[1]	-	-	D	D	D	D	C	B	D	A	A	A	A	A	-	A	-	A
Barium Carbonate	-	A	A	A[2]	A	A[1]	A[1]	-	A	A[2]	-	A[2]	A	-	A	B[2]	-	A	-	-	A[2]	A	-	-	-	A[2]	-	A	D	B[1]	B	-	B	B	A	A
Barium Chloride	-	A	A	A[1]	A	A[1]	C	-	A	A	A	A[1]	A	A	A	A[1]	-	A	-	B	A	A	A	A	A	A[2]	A	A	D	B	C	C	B	A[1]	A	A
Barium Cyanide	-	B	-	D	-	A	-	-	A	-	-	D	A	-	A	B	-	A[1]	-	-	A	A	-	-	A	C	-	A	C[1]	A[1]	C	-	-	A[1]	-	-
Barium Hydroxide	-	D	A	A	A	A[1]	A[1]	-	A	A[2]	A	A[2]	A	A	A	B[2]	-	A	-	-	A	A	A	A	A	A[2]	A	A	D	B[1]	A	A	B	B	A	A
Barium Nitrate	-	A	A	A	A	A[1]	A[1]	-	A	A	-	A	A	D	A	B[2]	-	A[1]	-	-	A[2]	A	-	-	A	A[2]	-	A	B	B	D	A	-	B	A	A
Barium Sulfate	-	A	A	B[1]	A	C[1]	A[1]	-	A	A[1]	A	B[1]	A	-	A	B[2]	-	A	-	-	A	A	A	A	A	A	A	A	B	B	C	-	A	B[1]	B	B

The chemical resistance information presented has been supplied by chemical and resin suppliers.
No warranty is expressed or implied. For specific recommendations call **EnviroTech Molded Products, Inc.**

Ratings – Chemical Effect

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	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Barium Sulfide	-	A	A	A²	-	B¹	A¹	-	A	A²	-	A²	A	-	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	D	A¹	C	-	-	B²	A	A
Beer	-	B	A	A¹	A	A¹	A¹	-	-	A¹	-	A¹	A	A	A¹	A²	A	A	-	C	A	A	A	A	A	A	A	A	A	A	A	D	A¹	A	B	A
Beet Sugar Liquids	B	B	A	A²	A	A¹	A	-	-	A	-	A²	A	A	B¹	A¹	-	A¹	-	-	A	A	A	A	A	A	A	A	A	A	C	A	-	A	A	A
Benzaldehyde	B	A	A	D	A	A¹	B	-	D	D	A	D	A¹	D	A¹	A¹	C	A¹	-	D	A	A	D	D	D	D	D	D	B	A	A	A	A	B	A	A
Benzene	D	A¹	A	C¹	B	C¹	A	A	A	D	A	C¹	A²	A	D	C¹	D	A	-	C	D	D	D	D	D	D	D	A	B	A	A	A	B	B	A	A
Benzoic Acid	-	B	A	A	A	A¹	B	-	A	A¹	A	A	A	C	A¹	B²	C	A²	-	B	D	D	D	D	D	D	A	A	B	B	D	D	B¹	B	A	B
Borax (Sodium Borate)	-	A	A	A	A	A¹	A	-	-	A¹	A	B¹	A	D	A	A²	-	A	-	-	A	A	A	B	C	B	B	A	B¹	A	A	A	B	A	B	A
Boric Acid	-	A	A	A	A	A¹	B	-	A	A¹	A	A²	A	A	A	A²	-	A	-	B	A	A	A	A	A	A	A	A	D	B²	B	D	A	A	A	B
Brewery Slop	-	A	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	-	A	-	-	-	A	A	-	A	-	A	A	A	-	A	-	A
Bromine	D	D	D	D	A	D	D	D	-	A¹	D	C¹	A	D	D	D	-	A	-	B	D	D	D	D	D	D	D	A	D	D	D	-	A	D	A²	D
Butadiene	-	A	A	A	A	A¹	A¹	-	-	-	A1	C¹	A	-	D	D	-	A²	-	-	D	C	B	D	B	D	D	B	A	A	C	-	-	A	-	A
Butane	B	A	A	C¹	A	A¹	A²	-	A	D	A	C¹	A	-	C¹	C¹	-	A	-	C	D	D	B	D	A	A	D	A	A	A	C	-	A	A²	A	A
Butanol (Butyl Alcohol)	-	A	A	A	A¹	D	B¹	A	A	A	A	B¹	A	A	A¹	A²	C	A²	-	B	B	B	B	A	A	A	B	A	B	A	A	-	A	A	B	A
Butter	B	A	-	-	-	A	A	-	A	B	-	-	A	D	A	-	A	A	-	B	A	A	B	D	B	A	A	A	A	-	D	D	-	A	-	A
Buttermilk	B	A	A	A¹	A	A¹	A	-	A	A	-	A¹	A	D	A¹	A¹	A	A	-	B	A	-	-	D	A	A	-	A	A	-	D	D	A	A	-	A
Butylene	-	A	A	A	B¹	A¹	B¹	-	-	-	A	C¹	A	A	-	B¹	-	A	-	-	B	D	D	D	C	B	D	A	A	A	D	-	-	A	-	A
Butylacetate	-	A	A	C¹	A¹	B¹	A	-	B	D	A	D	A¹	D	B¹	C¹	D	A	-	D	B	B	D	D	D	D	D	D	B	B¹	A	A	A	A	A	A
Butyric Acid	D	C	A	A	A	C¹	C	-	-	A¹	A	B¹	A	D	C¹	D	-	A²	-	C	B	B	D	-	D	D	-	B¹	B	B	A	D	A¹	B²	A	D
Calcium Bisulfate	-	-	-	-	-	A	-	-	-	-	-	-	A	D	A	-	-	-	-	-	D	D	A	D	A	A	A	-	-	-	C	D	-	A	-	-
Calcium Bisulfide	-	D	-	A¹	A	A	A	-	-	A	-	A²	A	-	A	-	-	A	-	-	D	D	A	D	A	A1	A	A	C	B	C	-	-	B	A	A
Calcium Bisulfite	-	D	A	B	A	A¹	A²	-	-	A¹	A	B	A	-	A	A¹	-	A	-	-	D	D	A	D	A	A	A	A	D	B¹	-	-	B	A	A	-
Calcium Carbonate	-	A	A	A	-	A¹	A	-	-	A²	-	A²	A	-	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	D	B¹	A	-	B	B	A	A
Calcium Chlorate	-	-	-	A	-	-	-	-	-	-	-	A²	A	A	A	-	-	A	-	-	-	A	-	-	-	C	-	A	-	-	-	-	-	-	A	-
Calcium Chloride	B	D	A	A²	A	A¹	B¹	-	-	A	A	A²	A	A	A	B²	A	A	-	-	A	A	A	A	A	A	A	A	D	B	A	C	A	B²	A	A
Calcium Hydroxide	-	D	A	A²	A	A¹	A²	-	-	A²	-	A²	A	D	A	B²	B	A	-	-	A	A	A	A	A	A	A	A	C¹	B	D	A	A	B	A	A
Calcium Hypochlorite	-	D	A	B¹	B¹	A¹	C¹	-	A	A	A	B¹	A	A	A²	B²	A	A	-	A	A	A	A	D	C	C¹	B	A	D	B	D	D	B	B	A¹	A
Calcium Sulfate	C	D	A	A²	A	A¹	D	-	-	A	A	A²	A	D	A	B²	-	A	-	-	A²	A	-	-	C	A²	-	A	C	B¹	A	A	B	B	A	A
Calgon	-	B	-	-	-	A	A	-	-	A	-	-	-	D	A	-	-	-	-	-	A	A	-	-	A	A	-	A	-	-	C	D	-	A	-	A
Cane Juice	-	A	-	A²	-	A	A	-	-	-	-	A²	A	A	A	-	-	A	-	A	A	A	A	A	A	A	A	A	B	A	A	A	-	A	-	A
Carbolic Acid (see Phenol)	-	D	A	A	A¹	C¹	D	-	-	D	A	C	A²	D	B²	B¹	-	A	-	C	B	B	C	D	C	D	D	A	B	B	A	D	A	B	A	D
Carbon Bisulfide	-	A	-	A	-	A	A	-	-	-	-	D	A¹	-	A	-	-	-	-	D	D	D	D	-	D	B	-	A	B	B	B	-	-	B	-	A
Carbon Dioxide	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C	A	A	-	-	B	B	B	B	B	A	B	B	B	A	A	D	A	A¹	A	A
Carbon Dioxide (dry)	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C¹	A	A	-	-	A	B	B	B	B	A	B	B	B	A	A	D	A	A¹	A	A
Carbon Dioxide (wet)	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C¹	A	A	-	-	A	B	B	B	B	A	B	B	B	A	A	D	A	A¹	A	A
Carbon Disulfide	-	A¹	A	C¹	A	C¹	A	-	B	A¹	A	D	A¹	A	A	C¹	D	A	-	-	D	D	D	D	D	D	-	A¹	A	B	D	A	B	B	B	B
Carbon Monoxide	-	A	A	A²	-	A¹	A¹	-	-	A²	-	A²	A	A	A	B²	A	A	-	-	A	A	A	B	B	A	A	A	A	A	C	D	A	A	-	A
Carbon Tetrachloride	D	B¹	A	C¹	A¹	A¹	A	A	A	D	A	B¹	A	A	B¹	B¹	A¹	A	-	C	D	D	D	D	D	C	D	A	D	B	A	C	A¹	B	A	A
Carbonated Water	-	A	-	A	-	A	A	-	-	A	-	A	A	-	A	A	A	-	A	-	A	-	-	-	A	A	-	A	A	A	C	D	-	A	-	A
Carbonic Acid	-	B¹	A	A	A	B¹	A¹	-	-	A¹	A	A²	A	A	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	B¹	A	A	D	A¹	A	B¹	A
Catsup	B	B	-	A	-	A	A	-	-	A	-	A	A	D	A	-	-	-	-	-	A	C	-	-	C	A	-	A	D	A	C	D	-	A	-	A
Chloracetic Acid	-	D	A	B¹	A²	C¹	D	-	-	-	A	B¹	D	-	C¹	C¹	-	A	-	D	B	B	D	D	D	D	-	D	D	C²	-	-	B	A¹	A¹	-
Chloric Acid	-	D	D	A	A	-	D	-	-	D	-	A²	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	D	A	-	-	A	C¹	-	-
Chlorinated Glue	-	-	-	-	-	A	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	B	-	-	D	C	-	A	-	A	A	D	-	A	-	-
Chlorine Anhydrous Liquid	-	A¹	A	B²	B²	C¹	D	D	-	B¹	D	C¹	A	D	B	B²	D	A	-	C	D	C	C	D	D	D	-	A	D	C	D	C	B	C	B	D
Chlorine, Dry	-	D	A	A²	D	-	D	D	-	B¹	D	A²	A	-	C	B	D	A	-	-	D	D	D	D	D	D	D	A	C¹	A	-	-	B	B	D	-
Chlorine Water	-	D	A	A²	A	A¹	D	D	-	C¹	D	A²	A	-	A¹	B¹	C	A	-	-	B	B	D	C	D	B	-	A	D	B	-	-	A	C	A	-
Chlorobenzene (Mono)	D	A¹	A	D	A¹	C¹	B¹	-	D	D	A	D	A²	D	A¹	C¹	D	B	-	A	D	D	D	D	D	D	D	A	A	B	A	D	B	B	B	A
Chloroform	D	B¹	A	D	B¹	C¹	B	-	D	D	A	D	A²	A	C¹	C¹	D	A¹	-	A	D	D	D	D	D	D	D	A	B¹	A	D	D	A¹	A	A²	A
Chlorosulfonic Acid	-	D	A	C¹	A²	C¹	D	-	D	D	D	C	D	D	D	D	-	A	-	C	D	D	D	D	D	D	D	C	C²	C	D	D	A¹	B²	A	C
Chocolate Syrup	-	A	-	-	-	A	A	-	-	A	-	-	A	D	A	-	-	A	-	-	A	-	-	D	A	A	-	A	A	-	D	D	-	A	-	A
Chromic Acid 5%	B	B¹	A	A	A	B¹	D	A	A	A¹	A	A	A	C	A	B	D	A	-	B	C	A	B	B	D	D	C	A	C	B¹	D	D	B	A	A	C
Chromic Acid 10%	B	B¹	A	A²	A	C¹	D	A	A	A¹	A	A²	A	D	A	A²	D	A	-	C	D	B	B	D	D	D	C	B	D	B¹	D	D	B	B	A	C
Chromic Acid 30%	C	C	A	B²	A	C¹	D	A	A	D	B	B²	A²	C	A²	A²	D	A	-	B	D	B	B	D	D	D	C	A	D	B²	D	D	B	B²	A	D
Chromic Acid 50%	C	D	A¹	C²	A²	D	D	-	A	D	A¹	C²	A²	C	B¹	A²	D	A	-	B	D	B	B	D	D	D	C	A	D	B²	D	D	B¹	B²	A²	D
Cider	-	B	-	-	-	A	-	-	-	A	-	A	A	D	A	B	A	-	-	-	A	-	-	-	A	A	-	A	B	A	A	D	-	A	-	A
Citric Acid	C	B¹	A	B²	A²	A¹	B	-	A	A¹	A	B²	A	A	A	A¹	A	A	-	-	A	A	A	A	A	A	A	A	C	A²	C	D	A	A²	A²	A
Citric Oils	-	B	-	-	-	A	-	-	-	A	-	-	A	D	A	-	-	-	-	-	A	-	-	-	D	A	-	A	C	A	D	D	-	A	-	A
Clorox (Bleach)	B	D	-	A	D	A	C	-	-	A	C	A	A	D	A¹	-	A	A	-	B	B	B	B	D	B	B	-	A	A	-	D	D	A	A	A	A
Coffee	-	A	-	A	-	A	A	-	-	A	-	-	A	-	A	-	A	-	-	-	A	A	A	A	A	A	A	A	A	A	D	-	A	A	A	A
Copper Chloride	-	B	-	A	-	A	C	-	-	A	A	A	A	D	A	B	A	A	-	B	A	A	A	A	B	A	A	A	D	B	D	D	-	D	A	A
Copper Cyanide	-	B	A	A	-	B¹	A¹	-	-	A¹	A	A²	A	A	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	D	B	C	D	B	B	A	A
Copper Fluoborate	-	B	-	-	-	A	-	-	-	-	-	A	A	A	-	-	-	-	-	-	-	-	-	-	A	B	-	A	-	-	D	D	B	D	-	-
Copper Nitrate	-	D	A	A	A	A¹	D	-	-	A¹	A	B²	A	-	A	B²	-	A	-	-	A	-	-	-	A	A	-	A	D	B	D	-	A¹	B	A	A
Copper Sulfate 5%	-	D	A	A	A	A¹	C²	-	A	A¹	A	A²	A	A	A	B²	-	A	-	-	A	A	A	B	A	A	A	A	D	A	C	D	A	B	A	A

The chemical resistance information presented has been supplied by chemical and resin suppliers.
No warranty is expressed or implied. For specific recommendations call **EnviroTech Molded Products, Inc.**

Ratings – Chemical Effect

A No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Copper Sulfate 50%	-	D	A	A	A	A[1]	C[2]	-	A	A[1]	A	A[2]	A	A	A	B[2]	-	A	-	-	A	A	A	B	A	A	A	A	D	B	C	D	A	B	A	A
Cream	-	A	-	A	-	A	A	A	-	A	-	-	A	A	A	-	-	A	-	-	A	-	-	-	C	A	-	A	A	A	D	D	-	A	-	A
Cresols	D	D	A	D	A[1]	A[1]	D	-	D	D	A	D	A[2]	D	D	C[1]	-	-	-	D	D	D	D	D	D	D	D	A	A	A	C	C	B[2]	A	B	A
Cresylic Acid	-	D	A	A	-	A[1]	D	-	-	-	-	C[1]	B[1]	D	D	B[1]	-	A	-	-	D	D	D	D	D	D	D	A	B	A[1]	C	C	B[1]	A	A[1]	A
Cyanic Acid	-	D	A	-	-	A[1]	D	-	-	-	-	-	-	D	-	-	-	A	-	-	C	-	-	-	C	C	-	A	-	-	D	D	-	A	-	-
Cyclohexane	-	A[1]	A	B[1]	A	A[1]	A	-	A	D	A	B[1]	A	D	C[1]	B[1]	A[1]	A	-	D	D	D	D	D	D	A	D	A	A	A	D	A	B	A	A	A
Detergents	B	A[1]	A	A	A	A[1]	A[1]	-	-	A[1]	A	A	A	-	A	A[1]	-	A	-	-	A	A	A	B	A	A	A	A	B	-	A	-	B	A[1]	A[2]	A
Dichlorethane	-	A[1]	A	D	A[2]	B[2]	C[1]	-	D	A[1]	-	D	A	-	A[1]	C[1]	-	A[1]	-	D	-	D	D	D	D	B	D	B	-	A	-	-	A	B	A	-
Diesel Fuel	-	A	A	A[2]	A[1]	A[1]	A	A	B	D	A	A[2]	A	-	A[1]	C[1]	-	A	A	-	D	D	C	D	B	A	D	A	A	-	A	A	B	A	B	A
Diethylamine	-	B	A	D	A	A	A	-	A	-	-	D	A[1]	-	B[2]	D	-	A	-	A	B	B	C	B	B	B	B	D	B[1]	-	A	-	-	B[1]	D	A
Diethylene Glycol	B	A	A	-	-	C	A[1]	-	-	A[1]	-	C[1]	A	-	A[2]	B[2]	B	A[2]	-	A	A	A	A	A	A	A	B	A	B[1]	-	A	A	B	A[2]	A	A
Diphenyl Oxide	-	D	-	-	-	A	-	-	-	-	A	D	B[2]	-	D	-	-	A[1]	-	A	D	D	D	D	D	D	C	A	B[1]	-	A	A	B[1]	B[1]	A[1]	A
Dyes	-	C	-	-	-	A	A	-	-	A	-	B	A	-	-	-	-	-	-	C	-	-	-	-	C	-	-	A	B	-	C	-	-	A	-	-
Epsom Salts (Magnesium Sulfate)	-	B	A	A[2]	A	A	A[1]	-	A	A[1]	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	A	B	A	A	A	A	B[1]	A	C	A	B	B	A[1]	A
Ethane	-	-	A	-	-	A[1]	A	A	A	-	-	D	A	-	C[1]	-	-	A	-	A	D	D	B	D	B	A	D	A	-	-	A	-	-	A[1]	-	A
Ethanolamine	-	D	A	-	D	A[1]	B	-	-	A	A	D	C[1]	A	A[2]	-	A[1]	A	-	-	B	B	C	B	B	B	B	D	B	A	A	-	B	A	B	A
Ether3	-	A[1]	A	D	B[1]	A[1]	A	-	-	D	A	D	B[1]	D	A	C[1]	D	A	-	C	D	C	D	D	D	D	D	C	B[1]	A	A	C	B[1]	B[1]	A[1]	A
Ethyl Acetate	C	A	A	D	A[1]	C[1]	A[2]	A	D	D	A	C[1]	A[1]	A	B	C[1]	D	A	B	D	B	B	D	C	D	D	B	D	B[2]	A	A	A	A	B	A[1]	A
Ethyl Chloride	D	A[1]	A	D	B	A[1]	A[1]	-	-	D	A	D	A	D	C[1]	C[1]	D	A	-	D	A	A	D	B	A	A	D	A	B	A	A	C	B[1]	A	C	A
Ethyl Sulfate	-	-	A	-	A	A[1]	-	-	-	-	-	-	A	-	-	-	-	A	-	-	A	-	-	-	-	A	-	A	-	D	A	-	-	D	-	A
Ethylene Chloride	-	A[1]	A	D	A[1]	B[1]	B[1]	-	-	D	A	D	A	-	C[1]	C[1]	D	A	-	-	D	D	D	D	D	D	D	B	B[1]	A	-	-	-	A[1]	B[1]	A
Ethylene Dichloride	D	B[1]	A	D	A[1]	C[1]	B[1]	-	-	D	A	D	A	D	C[1]	C[1]	-	A	-	D	C	C	D	D	D	D	C	A	B[2]	A[1]	C	A	B	A[1]	B	A
Ethylene Glycol	B	B	A	A	A	C[1]	B[1]	A	A	A[1]	A	A[1]	A	A	A[2]	A[1]	A	A	A	B	A	A	A	A	A	A	A	A	B[1]	A	A	A	B[1]	A[1]	A[1]	A
Ethylene Oxide	-	-	A	C[1]	A	A[1]	A[1]	-	-	A[1]	D	C[1]	A	D	C[2]	C[1]	-	A	-	-	C	C	D	D	D	D	D	D	D	A[1]	A	D	-	C[1]	-	A
Fatty Acids	-	A[1]	A	B[1]	A	A[1]	A[1]	-	-	A[1]	-	B[1]	A	D	B[2]	A	-	A	-	B	C	B	D	C	B	B	C	A	A	A	C	C	A	A	B	A
Ferric Chloride	-	D	A	A	A[1]	A[1]	C[1]	-	A	A	A	A[2]	A	A	A	A[1]	-	A	-	B	A	A	B	A	B	A	B	A	D	D	D	D	B[2]	C[1]	A	A
Ferric Nitrate	-	D	A	A	A	A[1]	A[1]	-	-	A[1]	A	A[2]	A	-	A	B[2]	-	A	-	-	A	A	A	A	A	A	C	A	C[1]	A	D	-	B[1]	A[1]	A	A
Ferric Sulfate	C	D	A	A	A	A[1]	A[1]	-	-	A[1]	A	A[2]	A	D	A	A[2]	-	A	-	B	A	A	A	A	A	A	B	A	C[1]	A	D	D	A[1]	A[1]	A[1]	A
Ferrous Chloride	-	D	A	A	B[1]	A[1]	C[1]	-	-	A[1]	A	A[2]	A	A	A	A[1]	-	A	-	B	-	-	A	A	A	A	-	A	D	B[2]	C	D	B[1]	C[1]	A	A
Ferrous Sulfate	-	D	A	A	A	A[1]	C[1]	-	-	A[1]	A	A[2]	A	-	A	A[1]	A	A	-	B	-	A	-	-	-	A[2]	-	-	A[1]	B	D	D	B	B	A[1]	A
Fluoboric Acid	-	-	A	A[2]	-	A	D	-	-	B[1]	A	A[2]	A[1]	A	A	B[2]	-	A	-	B	A	A	A	A	A	A	-	-	D	B[1]	D	D	A[1]	C	D	D
Fluorine	-	-	C	A[1]	A	D	D	-	-	-	D	D	A[1]	-	D	C[1]	-	A	-	-	C	C	-	-	-	-	D	B	D	C	D	D	B[1]	C	D	-
Fluosilicic	-	-	A	A[2]	C	C	D	-	-	B[2]	A	A[1]	A[1]	-	A	B[1]	-	A	-	B	-	A[2]	A	A	A	A	-	-	C	B[2]	D	D	B	B[1]	D	D
Formaldehyde 40%	-	A[1]	A	A[1]	A	A[1]	B	-	A	A	A	A[1]	A[2]	-	A[2]	A[2]	A	A	-	-	B	A	C	B	C	C	-	A	B	A	A	B	B	A[1]	A	A
Formaldehyde 100%	B	A	-	A	A	A	B	-	A	-	B	A	A[1]	B	C	B	A	A	-	B	B	A	C	B	C	C	-	B	A	-	A	C	A	A	A	A
Formic Acid	B	D	A	A[1]	A[1]	C[1]	D	-	A	A	A	A[1]	A	C	A[1]	B[2]	-	A	-	B	A	A	A	A	A	B	B	C	B[1]	A[1]	C	D	A	C	A	A
Freon 11	C	D	-	A[2]	-	A	A	-	-	-	D	A[2]	C	-	B	C	C	A	-	D	D	D	A	D	D	B	D	B	-	-	A	C	A	A	B	A
Freon 12	C	B	-	A[2]	C	A	A	-	-	-	D	A[2]	A	-	B	C	C	A	-	D	B	B	A	B	A	A	D	A	A	-	A	A	A	-	B	A
Freon 22	-	A	-	B	-	A	A	-	-	-	D	B	D	-	A	-	C	A	-	D	A	A	A	A	A	D	D	D	-	-	A	C	A	-	A	A
Freon 113	-	A	-	B	-	A	A	-	-	-	D	B	C	-	B	-	-	A	A	D	D	D	A	D	A	A	D	B	-	-	A	-	A	-	C	A
Freon TF	-	A	-	B	-	A	A	-	-	-	D	B	B	-	B	-	-	D	-	D	D	D	A	D	A	A	D	B	D	-	A	-	A	-	B	A
Fruit Juice	B	A	-	A	A	A	A	-	-	A	-	A	A	D	A	-	A	A	-	B	-	-	-	D	A	A	-	A	A	-	C	D	A	A	A	A
Fuel Oils	D	B	A	-	A	A[1]	A	A	-	A[1]	A	A[2]	A	-	C[1]	C[1]	-	A	A	B	D	D	C	D	B	A	D	A	C[1]	A	A	A	A[1]	A	A	A
Furan Resin	-	D	-	-	A[1]	A[1]	-	-	-	-	A	A	D	A	D	D	-	A	-	A	D	C	D	D	D	D	D	-	A	-	A	-	-	A	-	-
Furfural	D	D	A	D	B[1]	A[1]	B	-	-	D	A	D	B[2]	D	C	C[1]	D	A	-	A	B	B	D	D	D	D	D	D	A[1]	B	A	A	B	B	A[1]	A
Gallic Acid	-	-	B	C	-	-	B[1]	-	-	-	A	A[2]	A[1]	-	A	B[2]	-	A	-	A	B	B	B	A	B	B	-	A	C[1]	B	A	-	B[1]	B	A	-
Gasoline	D	B	A	C[1]	A	A	A	A	-	D	A	C[1]	A	A	C[1]	C[1]	C	A	A	A	D	D	D	D	D	A	A	A	A[2]	A	A	A	A	A	B	A
Gelatin	-	A	A	A[2]	-	B	A[1]	-	-	A[2]	-	A[2]	A	D	A	A[2]	-	A	-	A	A	A	A	A	A	A	A	A	B[2]	A	A	D	A	A[2]	A	A
Glucose	B	A	A	A[2]	-	B	B[1]	-	-	A[2]	B	A[2]	A	A	A	A[2]	A	A	-	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A
Glue, P.V.A.	-	A	B	A	-	A	A[1]	-	-	-	-	C	A	-	A	A[1]	A	A	-	C	A	A	A	A	A	A	A	A	C	A	A	A	A	A[2]	A	A
Glycerin	C	A	A	A	A	A	A[1]	-	A	A	A	A[1]	A	A	A	A[1]	A	A	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycolic Acid	B	A	A	A	A[1]	A	-	-	-	-	A	A[2]	A[1]	-	A	A[2]	-	A	-	-	A	A	A	A	A	A	A	A	-	-	-	-	-	A	B[1]	A
Gold Monocyanide	-	A	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	D	-	A	A	-	-	-	A	A	-	A	-	-	A	D	-	A	-	A
Grape Juice	B	A	-	A	-	A	A	-	-	-	-	B	A	A	A	B	-	D	-	B	A	-	-	-	A	A	-	A	-	A	C	D	-	A	A	A
Grease	-	D	-	-	-	A	A	-	-	-	-	A	A	D	A[1]	-	-	A	A	B	D	D	D	D	B	A	-	A	-	A	A	A	A	A	-	A
Heptane	D	A	B	A	A	A	A	A	A	A[1]	A	C[1]	A	D	C[2]	B[1]	A[1]	A	-	-	D	D	B	D	B	A	D	A	A	A	A	A	A	A	A	A
Hexane	-	A	A	B[1]	A	B	A	A	A	-	A	B[1]	A	D	B[1]	C[1]	A[1]	A	-	-	A	D	B	D	B	A	D	A	A	A	A	A	A	A	A	A
Honey	-	A	-	-	-	A	A	-	-	-	-	A	A	D	A	B	A	A	-	A	-	-	-	-	-	-	-	A	A	A	A	A	A	A	-	A
Hydraulic Oil (Petro)	-	B	B	-	-	A	A	-	-	-	D	A	A	D	D	C	-	A	-	A	D	D	B	D	B	A	C	A	A	A	A	A	A	A	-	A
Hydraulic Oil (Synthetic)	-	-	B	-	-	A	A	-	-	-	-	A	A	-	D	A	-	A	-	A	-	-	-	-	-	-	-	A	A	A	A	-	A	A	-	A
Hydrazine	-	B	-	D	-	A	-	-	-	-	-	-	A	A	C	-	-	C	-	-	A	A	B	-	B	B	C	A	-	-	D	C	-	A	-	A
Hydrobromic Acid 20%	-	C	A	A	A	B[1]	D	-	-	B	-	B[2]	A	D	A[2]	B[2]	A	-	-	B	A	A	A	A	B	D	D	A	D	-	C	D	A[1]	D	A	-
Hydrobromic Acid 100%	B	D	A	A[2]	A	D	D	-	-	B	A[1]	A[1]	A	D	C[1]	B[1]	-	A	-	B	A	A	A	A	D	D	D	A	D	-	D	D	C	D	A	A
Hydrochloric Acid, Dry Gas	-	-	A	A	A	A	A[1]	A	-	A	A	A[2]	A	-	B	A[2]	-	A	-	-	-	-	-	-	-	-	-	-	D	A	D	-	A	D	C	A

The chemical resistance information presented has been supplied by chemical and resin suppliers.
No warranty is expressed or implied. For specific recommendations call **EnviroTech Molded Products, Inc.**

Ratings – Chemical Effect

A No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Hydrochloric Acid 20%	A	C	A	A²	A	A¹	D	A	A	A	A	A²	A	A	A²	A²	A	A	A¹	B	-	-	-	-	-	-	-	A	D	D	D	D	A¹	D	C	A
Hydrochloric Acid 37%	A	C	A	A²	A	A	D	A	A	A	A	B	A	C	A¹	B²	A	A	-	C	A	A	B	C	C	C	C	A	D	D	D	D	-	D	C	A
Hydrochloric Acid 100%	A	C	A	A	A	-	D	A	A	A	A¹	B²	A	-	B¹	-	A²	A	-	-	A	C	D	D	D	D	D	A	D	D	D	D	B²	D	D	A
Hydrocyanic Acid (Gas 10%)	-	C	-	A	-	-	-	-	-	C	-	A	-	-	A	-	-	A	-	-	A	A	A	A	B	B	-	A	-	-	D	-	-	-	A	-
Hydrofluoric Acid 20%	C	D	A	C¹	A¹	A	D	-	-	C¹	A	B	A	D	A²	A²	-	A	-	D	A	A	A	B¹	A¹	B¹	D	A¹	D	B²	D	D	A	D	D	C
Hydrofluoric Acid 50%	C	D	A	C¹	A¹	C²	D	-	-	D	A	B¹	A	D	A²	A¹	C	A	-	D	A	A	A¹	B¹	A¹	C	D	A¹	D	B²	D	D	B²	D	D	D
Hydrofluoric Acid 75%	C	D	A²	C¹	A¹	B¹	D	-	-	D	B	C	A	D	C¹	C¹	-	A	-	D	C	A¹	A	D	D	D	D	A¹	D	B¹	D	D	B²	D	D	D
Hydrofluoric Acid 100%	D	D	-	C¹	-	-	D	-	-	D	D	C	A	D	C¹	-	-	A	-	D	D	C	A	D	D	D	D	A¹	D	B¹	D	D	B	B¹	D	D
Hydrofluosilicic Acid 20%	-	B	A	A	A	C¹	D	-	-	B²	A	A²	A	D	A	B²	-	A	-	A	A	A	A	A	B	B	D	A	D	B²	D	D	B	B¹	D	A
Hydrofluosilicic Acid 100%	-	A	A	-	A	C¹	D	-	-	B²	A¹	B¹	A¹	-	A	B¹	-	A	-	D	A	A	A	A	B	B	D	A	D	B²	D	D	B	C²	D	A
Hydrogen Gas	-	-	A	A²	A	-	A²	-	-	A¹	A	A²	A	-	A	A²	A	A	-	A	A	A	A	B	A	A	C	A	A	A	A	-	A	A	A	-
Hydrogen Peroxide 10%	A	D	C	A	A	C¹	C¹	A	A	A²	A	A¹	A	D	B¹	A²	A	A	-	D	-	-	-	-	-	-	B	A	A	B¹	C	C	A	B	B¹	A
Hydrogen Peroxide 30%	-	D	C	A	A	B	D	A	A	A²	A¹	A¹	A	D	B¹	C²	A	A	-	-	A	A	B	B	A	B	B	A	A	B¹	B	B	A	B	B¹	-
Hydrogen Peroxide 50%	-	D	C	A	A	-	D	-	A	-	-	A¹	A¹	D	B¹	C²	A	A	-	-	-	-	-	-	-	-	B	A	A	B¹	B	-	A	A²	B¹	-
Hydrogen Peroxide 100%	B	D	C	A	A	A	D	-	A	A	C	C²	A¹	D	B¹	C²	A	A	-	D	C	C	C	D	D	D	A	A	A	B¹	D	B	D	A²	B¹	-
Hydrogen Sulfide (Aqua)	B	C	A	A	A¹	A	C¹	-	B	A¹	A	B¹	A	D	A²	A	-	A	-	D	A	A	B1	D	A¹	D	C	D	B	A	D	D	A¹	C¹	A	A
Hydrogen Sulfide (Dry)	-	-	A	A	A¹	A	C¹	-	A	-	A	A²	A	D	A²	A	-	A	-	D	A	A	A	A¹	A¹	A¹	C	D	B	B	D	D	A¹	B	A	-
Hydroxyacetic Acid 70%	-	A	-	A	-	A	-	-	-	-	-	D	A	-	-	-	-	-	-	-	A	A	-	-	A	A	-	A	-	-	D	B	-	-	A	A
Ink	B	A	-	-	-	A	B	-	-	-	-	C	A	-	A	-	-	D	-	C	A	-	-	D	A	A	-	A	-	-	D	D	-	C	-	A
Iodine	D	D	A	D	A	C	D	-	B	C¹	D	D	A²	-	A¹	A¹	-	A	-	D	B	B	B	-	D	B	-	A	A	A	D	D	B	C	A	D
Iodine (in Alcohol)	-	D	-	-	-	-	C	-	B	-	-	-	A	-	A¹	B	-	-	-	-	-	-	-	-	-	-	-	-	B	B	-	-	D	-	B	-
Iodoform	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-	C	-	C	A	A	-	B	A	-	-	-	-	-	A	-	A	B	-	-
Iso-octane	-	-	-	-	-	A	D	-	A	-	-	A	A	-	D	-	A¹	-	A	-	D	D	A	D	B	A	D	A	D	-	-	-	-	-	-	-
Isopropyl Acetate	-	D	A	-	-	A	B¹	-	-	-	-	D	D	-	B¹	B¹	-	A	-	-	B	B	D	D	D	D	D	D	B	A¹	B	-	B	A	-	A
Isopropyl Ether	-	D	A	-	A	D	A¹	-	-	-	-	B	A¹	-	A	A	-	A¹	-	A	D	D	C	D	C	B	D	D	A	A	A	-	A	A	-	A
Jet Fuel (JP3, -4, -5)	-	A¹	A	-	A	A	A¹	A	A	D	A	A¹	A	D	A¹	B	C	A	-	A	D	D	D	D	D	A	D	A	A	A	A	A	A	A	A	A
Kerosene	D	A²	A	-	A	A	A	A	A	D	A	A²	A	A	A¹	C¹	C	A	A	A	D	D	D	D	C	A	D	A	A	A	A	A	A	A	A	A
Ketones	D	D	A	-	B¹	C	A²	-	-	D	A	B	D	-	A¹	C¹	D	A	-	A	A	D	-	A	D	D	-	D	A	A	A	-	A	A	A	C
Lacquers	-	D	A	-	-	A	A¹	-	-	D	-	C	D	A	A¹	B¹	-	A	-	A	D	D	D	D	D	D	D	D	A	A	A	C	A	A	-	A
Lacquer Thinners	-	D	A	-	-	A	A¹	-	-	D	-	C	-	A	A¹	B¹	-	A	-	-	D	D	D	D	D	D	D	D	A	A	A	C	A	A	C	-
Lactic Acid	B	B	A	A¹	A¹	B¹	C¹	-	A	A	A	B¹	A²	D	A²	A¹	A	A	-	B	A²	A²	A²	A²	A²	A²	A¹	A	B	B²	C	D	B¹	B¹	A	A
Lard	-	B	A	-	-	B	A¹	-	-	A	-	A¹	A	D	B¹	B¹	A	A	-	A	B	B	D	D	B	A	B	A	A	A	A	A	A	A	A	A
Latex	B	C	-	-	-	A	A¹	-	-	-	-	-	A	D	A²	-	-	A	-	A	-	A	-	-	-	A	-	A	A	-	A	-	A	A²	-	-
Lead Acetate	B	D	A	A²	A	A	B¹	-	A	A¹	A	A²	A	-	A¹	A²	-	A	-	B	A	A	D	A	B	B	D	D	D	B¹	A	A	B¹	B¹	A	A
Lead Sulfamate	-	A	-	-	-	A	B¹	-	-	-	-	A²	A	-	A²	A¹	-	A¹	-	-	A	A	A	B	A	B	B	A	C	-	-	-	-	C	-	-
Ligroin	-	B	-	-	-	A	D	-	-	-	-	-	A	-	A²	C²	-	-	-	A	A	D	C	D	B	A	D	A	D	-	A	-	-	A	-	-
Lime	-	B	A	-	-	A	A¹	-	-	-	-	A¹	A	D	A¹	B¹	-	A¹	-	A	A	A	B	A	A	A	B	A	D	-	A	A	-	A	A	A
Lubricants	-	A	A	-	-	A	A	-	-	C¹	A	B²	A	A	A¹	D	A¹	A	-	B	D	D	B	D	B	A	D	A	A²	A²	A	A	A	A²	A	A
Magnesium Carbonate	B	A	-	A²	-	A	-	-	-	A²	-	A²	A	-	A	A²	-	A¹	-	-	A	A	A	A	A	A²	A	A	B	A	A	-	-	A¹	A	-
Magnesium Chloride	B	A	A	A	A	A	C	-	-	A	A	A²	A	A	A	A²	-	A	-	B	A	A	A	A	A	A	A	A	D	B	C	D	A²	A¹	A	-
Magnesium Hydroxide	B	A	A	A	A	A	B¹	-	-	A²	A	A²	A	D	A	A²	-	A	-	C	A	A	A	A	A	A	A	A	C¹	B	A	A	B¹	A¹	A	A
Magnesium Nitrate	B	A	-	A	-	A	A¹	-	-	A¹	A	A²	A	A	A	A²	-	A	-	-	A	A	-	-	A	A	-	A	C	A	D	D	A	A¹	A	-
Magnesium Oxide	-	A	-	-	-	A	-	-	-	-	-	-	-	D	-	-	-	-	-	-	A	-	-	-	A	A	-	C	-	-	A	A	-	A	-	-
Magnesium Sulfate	B	A	A	A	A	A	C	-	A	A¹	A	A²	A	A	A	A²	-	A	-	B	A	A	A	B	A	A	A	A	B¹	A	C	A	A²	B	A	A
Maleic Acid	-	A	A	A	-	A	C	-	-	A¹	B	A²	A	-	A	B²	A¹	A	-	C	D	D	D	D	D	D	-	A	B¹	B	A	A	B	B	A	A
Maleic Anhydride	-	D	-	-	-	A	-	-	-	-	-	-	A	-	D	-	-	-	-	-	D	D	D	D	D	D	-	A	A	-	-	-	-	-	-	A
Malic Acid	-	A	A	-	-	-	C¹	-	-	-	-	A²	A	-	A¹	B²	-	A	-	D	D	D	B	A	B	A	B	A	B¹	B²	A	-	B	A²	A	-
Mash	-	A	-	-	-	A	A	-	-	-	-	-	A	-	A	-	-	-	-	A	-	A	-	-	A	A	-	A	A	-	A	-	-	A	-	A
Mayonnaise	-	-	-	-	-	A	A	-	-	-	-	D	A	-	A	B	A	D	-	D	-	-	-	D	A	C	-	A	A	-	D	D	A	A	-	A
Melamine	-	-	-	A²	-	A	A	-	-	-	-	A²	-	D	A	-	-	A	-	D	-	A	-	-	D	C	-	A	-	-	D	D	-	D	-	A
Mercuric Chloride (Dilute)	-	B	C	A	A	A	D	-	A	A²	A	A²	A	A	A	A²	-	A	-	D	A	A	A	A	A	A	-	A	D	D	D	D	C	C	A	A
Mercuric Cyanide	-	-	A	A	A	A	A	-	-	A²	-	B²	A	-	A	A²	-	A	-	D	-	-	-	D	A	A	-	A	D	A	D	-	-	B	A	A
Mercury	B	A	C	A	A	A	A²	-	A	A¹	-	B	A	D	A	A²	-	A	-	D	A	A	A	A	A	A	-	A	-	A	D	A	A²	A	A	A
Methanol (Methyl Alcohol)	B	A	A	A	A²	B¹	C¹	A	A	A¹	A	A¹	A	A	A	A¹	A	A	B	A	A	A	A	A	A	A	A	D	A¹	A	A	A	A	A	B	A
Methyl Acetate	-	B	A	-	A	D	A²	-	-	-	-	D	D	-	D	B¹	-	A	-	A	B	B	D	D	B	D	D	D	A	A	A	-	A	A	-	A
Methyl Acrylate	-	B	-	-	-	A	-	-	-	-	-	-	D	-	D	-	-	-	-	-	B	B	D	D	B	D	D	D	-	-	-	-	-	-	-	A
Methyl Acetone	-	D	A	-	-	C	A	-	-	-	-	D	D	-	-	-	-	A	-	A	-	-	-	A	D	D	-	A	A	A	B	-	-	A	-	-
Methyl Alcohol 10%	-	A	A	A¹	A²	B¹	C¹	A	A	A¹	A	A¹	A	A	A²	A¹	B¹	A	B	C	A	A	A	A	A	A	A	D	A¹	A	A	A	A	A	B	-
Methyl Bromide	D	D	A	D	-	B	C	-	-	-	-	D	A	-	C	-	-	A	-	-	D	D	D	D	D	B	-	A	-	-	-	-	-	A	-	A
Methyl Butyl Ketone	-	D	-	-	-	C	A	-	D	-	-	A	D	-	D	-	D	-	-	-	A	A	D	D	D	D	B	D	-	-	A	-	-	A	-	A
Methyl Cellosolve	-	D	A	-	-	C	A	-	-	-	-	B²	A	-	B¹	-	-	A	-	A	B	B	D	D	C	C	D	D	A	A	-	-	-	A	-	A
Methyl Chloride	-	D	A	-	A¹	A	C	-	-	D	A¹	D	A	-	D¹	C¹	D	A	-	A	C	C	D	D	D	D	D	A	D	B²	C	A	B	A	A	A
Methyl Dichloride	-	D	-	-	-	A	C	-	-	-	-	A	A	-	D	-	D	-	-	-	D	D	D	D	D	D	-	B	-	-	-	-	-	-	-	A
Methyl Ethyl Ketone	D	B	A	D	A¹	C¹	A¹	A	D	D	A	D	D	A	A¹	B²	D	A	-	A	A	A	D	D	D	D	D	D	A²	A	A	A	A	A	A	A

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1 Satisfactory to 72°F (22°C)
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	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Methyl Isobutyl Ketone	-	D	A	-	A	C	A[1]	-	-	D	A	D	D	A	A[1]	B[1]	D	A	-	-	C	C	D	D	D	D	D	D	A[2]	A	C[1]	A	A	A[2]	A	A
Methyl Isopropyl Ketone	-	D	-	-	-	C	A	-	-	-	-	-	D	A	A[1]	-	D	-	-	-	B	B	D	D	D	D	D	D	-	A	A	-	A	A	-	A
Methyl Methacrylate	-	D	-	-	-	A	-	-	-	-	-	-	D	-	D	-	-	-	-	-	D	D	D	D	D	D	C	D	-	-	-	-	-	-	-	A
Methylamine	-	-	-	-	-	A	-	-	-	-	-	A	D	-	-	-	-	A	-	D	-	A[1]	-	B	-	C[1]	-	D	-	-	D	-	-	A	-	A
Methylene Chloride	D	A[1]	A	D	A	A	C[1]	-	D	D	A[1]	D	A[2]	A	B[1]	C[1]	D	A	D	A	D	D	D	D	D	D	-	B	A[1]	B	A	A	B	B	B	A
Milk	B	A	A	A	A	A	A[2]	-	A	A[2]	-	A[2]	A	A	A	A[2]	A	A	-	B	A	A	A	A	A	A	A	A	A	A	C	D	A	A[2]	A	A
Molasses	B	A	A	A	A	A	A[1]	-	-	A[2]	-	A[2]	A	A	A	A	A	A	-	B	A	-	-	A	A	A	-	A	A	A	D	A	A	A	A	A
Mustard	-	C	A	A	-	A	A[1]	-	-	A	-	B	A	D	A	A	A	A	-	B	-	-	-	B	A	C	-	D	B	A	D	D	A	A	A	A
Naptha	.D	D	A	A	A	A	A[1]	-	-	D	A	C	A	A	A[1]	A	-	A	-	C	D	D	D	D	D	B	D	A	A	A	B	A	B	A	B	A
Naphthalene	D	D	A	D	A	A	A[1]	-	-	D	A	D	A	A	A	A	-	A	-	C	D	D	D	D	D	D	D	A	B[1]	A	C	A	A	A	A	A
Nickel Chloride	B	A	A	A	A	A	C[1]	-	A	A[1]	A	A[2]	A	A	A	B[2]	-	A	-	B	A	A	A	A	B	A	A	A	D	B[1]	D	D	B	C	A	A
Nickel Sulfate	B	A	A	A	A	A	A[1]	-	A	A[1]	A	A[2]	A	C	A	B[2]	-	A	-	A	A	A	A	B	A	A	A	A	D	B	C	D	B	B	B	A
Nitrating Acid (<15% H2SO4)	-	-	-	-	-	-	-	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	C	A	-	-	-	D	-	D	A	A	C	A	A
Nitrating Acid (>15% H2SO4)	-	-	-	-	-	D	D	-	-	-	D	D	-	-	C	-	-	A	-	D	-	-	-	C	A	-	-	-	D	-	D	C	A	C	C	A
Nitrating Acid (<1% Acid)	-	-	-	-	-	-	D	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	C	A	-	-	-	D	-	D	-	A	A	-	A
Nitrating Acid (<15% HNO2)	-	-	-	-	-	-	D	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	C	A	-	-	-	D	-	D	C	A	D	C	A
Nitric Acid (5-10%)	B	D	A	A	A[1]	A[1]	D	A	A	A	A[1]	A[1]	A	D	A[2]	B[2]	B[2]	A	-	D	A	B	B	D	D	D	B	A	D	A[1]	D	D	A[1]	A	A[1]	C
Nitric Acid (20%)	B	D	A	A[2]	A[1]	B[1]	D	A	B	B[2]	A[1]	A[1]	A	D	A[2]	C[1]	A[1]	A	-	D	A	B	D	D	D	D	D	A	D	A[1]	D	D	A[1]	A	A[1]	D
Nitric Acid (50%)	C	D	D	A[1]	A	D	D	A	D	B[2]	B	B[1]	A[2]	D	D	C[1]	B[1]	A	-	D	B	D	D	D	D	D	D	A	C	A[1]	D	D	A[1]	A[1]	A[1]	D
Nitric Acid (Concentrate)	D	D	D	D	A[1]	D	D	C	D	B[1]	B[1]	D	D	D	D	C[1]	D	A	-	D	B	D	D	D	D	D	D	A	A[2]	A[2]	D	D	B[1]	A[1]	A[1]	D
Nitrous Acid	-	D	-	A	-	-	-	-	-	-	-	A	-	-	A	-	-	A	-	A	-	A	-	C	D	-	-	A	-	-	A	-	-	A	-	A
Nitrobenzene	D	B	B	D	A[1]	C[1]	B[1]	-	D	D	A	D	A[1]	D	A[2]	C[1]	D	A	-	D	D	D	D	D	D	D	D	B	A[1]	A	C	C	D	A	A	A
Oils: Aniline	D	D	-	-	-	A	A	-	-	D	-	D	A	D	A	-	-	A	-	A	B	B	C	D	D	D	D	C	D	A	A	A	B	A	C	A
Anise	-	D	-	-	-	A	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	A	A	A	-	A	-	A
Bay	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	D	-	-	A	-	A	A	A	-	A	-	A
Bone	-	D	-	-	-	A	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	-	-	D	A	-	A	-	A	A	A	-	A	-	A
Castor	-	A	-	A	-	A	A	-	A	-	-	A	A	A	A	-	-	A	-	A	B	B	A	A	A	A	A	A	-	-	A	A	-	A	A	A
Cinnamon	-	D	-	-	-	A	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	C	-	-	A	-	-	A	-	-	A	-	A
Citric	-	D	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	D	-	D	-	-	-	-	D	-	-	A	A	-	D	D	A	A	-	A
Clove	-	-	-	-	-	A	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	C	A	-	A	B	-	A	-	A	A	-	A
Cocoa Nut	-	A	-	A[1]	-	A	-	-	A	-	-	A[1]	A	A	A[1]	-	-	A	-	A	-	C	C	D	C	A	A	A	A	-	A	A	A	A	-	A
Cod Liver	-	B	-	A[1]	-	A	-	-	-	-	-	A[1]	A	A	A[1]	-	-	A	-	-	A	A	B	D	B	A	B	A	A	-	A	-	A	A	-	A
Corn	-	D	-	-	-	A	-	-	A	A	-	B	A	-	A[2]	C	-	A	-	B	C	C	B	D	C	A	A	A	A	-	C	A	A	A	-	A
Cotton Seed	-	B[1]	A	A	A[2]	A[1]	A	-	A	A	A	B[2]	A	A	A	B[2]	-	A	-	B	C	C	B	D	C	A	A	A	A	-	A	A	A	A	A	A
Cresote	-	D	A	-	A	A[1]	D	-	-	D	-	C	A	-	C[1]	C[2]	-	A	-	-	D	D	D	D	B	A	D	A	B	A[2]	A	A	B	B[2]	A	A
Diesel Fuel (20, 30, 40, 50)	-	D	A	-	A[1]	A[1]	A	-	A	D	A	A[2]	A	A	A[1]	C[1]	-	A	-	A	D	D	B	D	B	A	D	A	A	A	A	A	B	A	B	A
Fuel (1, 2, 3, 5A, 5B, 6)	-	D	A	-	A	A[1]	A[1]	-	A	A[1]	A	A[2]	A	A	C[1]	C[1]	-	A	-	A	D	D	B	D	B	A	D	A	C[1]	A	A	A	A[1]	A	A	A
Ginger	-	A	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	-	-	-	A	A	-	-	A	A	-	A	-	D	D	-	-	A	-	A
Hydraulic (See Hydraulic Oils)																																				
Lemon	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	A	-	-	-	D	-	-	D	-	-	A	D	A	A	-	-	A	-	A
Linseed	-	A	A	A	-	A	A[1]	-	-	A[1]	B	A[2]	A	A	A	C[1]	-	A	-	A	C	C	C	D	C	A	A	A	B	A	A	-	A	A[1]	A	A
Mineral	-	A	A	A	A	A	A	-	-	A[1]	A	A[1]	A	A	B[1]	B[1]	-	A	-	A	C	D	B	D	B	A	B	A	A	A	A	-	A	A	A	A
Olive	-	-	A	A	-	A	A[1]	-	A	A[2]	-	C	-	A	A	A[1]	-	A[1]	-	B	B	B	B	D	B	A	D	A	A	A	A	-	A	A	A	A
Orange	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	C	-	-	-	-	-	-	-	C	A	D	A	A	A	A	-	A	A	A	A
Palm	-	D	-	A	-	A	-	-	A	-	-	A	A	A	-	-	-	-	-	-	-	-	-	-	D	A	-	A	-	A	A	A	-	A	A	A
Peanut	-	D	-	A[1]	-	A	-	-	A	-	-	A[1]	A	A	D	-	-	A	-	A	C	C	B	D	B	A	A	A	D	A	A	A	-	A	A	A
Peppermint	-	D	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	D	D	-	A	D	A	A	-	-	A	-	A
Pine	-	D	-	A	-	A	A	-	-	-	-	A	A	C	D	-	C	A	-	C	D	D	D	D	D	A	D	A	-	A	D	C	-	A	A	A
Rapeseed	-	D	-	A	-	A	-	-	A	-	-	-	A	A	D	-	-	-	-	-	A	A	D	D	B	B	D	A	-	A	A	A	-	A	A	A
Rosin	-	-	A	-	-	A	A[1]	-	-	-	-	C[1]	A	A	A[2]	B[2]	-	A	-	-	-	-	-	-	-	A	-	A	B[1]	B[1]	A	-	A	A[1]	-	A
Sesame Seed	-	D	-	A	-	A	-	-	A	-	-	A	A	A	-	-	-	A	-	A	-	-	-	-	D	A	-	A	-	A	A	A	-	A	A	A
Silicone	-	A	A	A	-	A	A[1]	-	-	A[1]	A[1]	A	A	A	A	A	-	A	-	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Soybean	-	D	A	A[2]	-	A	B[1]	-	A	-	-	A[1]	A	D	A[1]	A[1]	-	A	-	B	B	C	C	D	C	A	A	A	B	A	A	A	A	A	A	A
Sperm	-	D	-	A	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	A	-	-	-	-	D	A	-	A	-	A	A	A	-	A	A	A
Tanning	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	D	A	-	A	-	A	A	-	-	A	-	A
Turbine	-	D	-	A	-	A	A	-	-	-	-	A[1]	A	A	B[1]	C	-	A	-	A	D	D	D	D	D	A	D	A	-	A	A	A	-	A	A	A
Oleic Acid	D	C[1]	A	C[2]	A	A	C	-	A	A[1]	A	C[2]	A	C	A[2]	C[2]	A[1]	A	-	B	D	D	D	D	D	C	D	B	B	B[1]	C	-	A[2]	B	B	A
Oleum 25%	-	D	D	D	A	D	D	D	D	-	A[1]	D	C[1]	-	D	D	D	A	-	-	D	D	D	D	D	D	D	A	B	B	D	-	B	B	D	-
Oleum 100%	-	D	D	D	A	D	D	D	D	A[1]	A[1]	D	D	C	D	D	D	A	-	C	D	D	D	D	D	D	D	A	B	B	D	-	B	B	D	-
Oxalic Acid (cold)	A	C	A	A[1]	A	A	C	-	A	A[1]	A	A[1]	A[2]	C	A[2]	A[2]	A[1]	A[1]	-	B	A	A	B	B	B	B	B	A	B[1]	B[2]	A	C	B	B[1]	D	A
Paraffin	-	A	A	A[1]	-	A	A	A	A	A	-	A[1]	A	-	A[1]	B	A	A	-	A	-	D	-	B	A	A	-	B	A	A	A	-	A	A	A	A
Pentane	-	B	A	-	-	A	A	A	A	-	-	A	A	-	D	D	-	A	-	A	D	D	B	D	A	A	D	A	A	C	C	-	B	C	-	A
Perchloroethylene	-	A	A	C[1]	A	D	D	-	D	D	A	C[1]	A	-	D	D	D	A	-	C	D	D	D	D	D	B	D	A	B	B	D	A	B	A[1]	A	A
Petrolatum	-	B	-	-	-	A	D	-	A	-	-	B	A	-	D	B	-	C	-	B	A	A	-	C	A	A	-	A	-	A	A	-	A	A	-	A

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Phenol (10%)	-	D	A	A¹	B	C	D	-	D	D	A	C¹	A	D	A²	A²	-	A	-	C	B	B	C	D	C	D	C	A	B	B	C	D	A	B	A	-
Phenol (Carbolic Acid)	D	D	A	A¹	B	C	C	-	D	D	A	C¹	A	D	A²	B¹	-	A	-	B	D	B	D	D	D	D	D	A	B	B	C	D	A	B	A	A
Phosphoric Acid (10%)	B	C¹	A	A	A	A	D	-	-	A	A	B²	A	D	A	A¹	A	A	-	D	B	B	B	D	B	D	D	A	C	B	D	D	A²	B	B	B
Phosphoric Acid (40%)	C	D	A	A	A	B	D	-	-	A	A	B²	A¹	D	A	B¹	A	A	-	D	C	B	C	D	D	D	C	A	B	B	D	D	A²	B	C	B
Phosphoric Acid (crude)	C	D	A	-	A	B	D	-	-	A	A	B²	A	D	A	B¹	A	A	-	D	-	B	C	D	D	D	C	A	B	B	D	D	A²	B	C	C
Phosphoric Acid Anhydride	-	D	-	-	-	-	D	-	-	-	D	-	D	D	A	-	A¹	-	-	-	-	-	-	-	A	-	-	-	-	-	A	-	-	-	D	A
Phosphoric Acid (molten)	D	D	-	-	-	-	D	-	-	-	-	D	D	D	D	-	-	-	-	.D	-	-	-	-	A	-	-	-	-	-	A	-	A	-	D	-
Photographic Developer	B	A	A	A	-	A	-	-	-	A	-	A	-	A	A	A	-	A	-	-	-	B	A	A	A	A	A	A	-	A	D	D	-	A	A	A
Phthalic Anhydride	-	-	A	D	-	-	-	-	-	-	-	D	A	-	D	-	-	A	-	B	B	A	-	C	A	B	-	A	A	A	B	-	A	A	-	-
Picric Acid	A	A	A	D	A	A	C¹	-	-	-	A	D	A¹	D	B¹	-	-	A	-	D	A	A	A	A	A	A	D	A	A¹	B	D	A	B	B	A	-
Plating Solutions:																																				
Antimony Plating 130°F	-	A	-	A	-	B	D	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	A
Arsenic Plating 110°F	-	A	-	A	-	B	A	-	-	-	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	C
Brass Plating:																																				
Regular Brass Bath 100°F	-	A	A	A	-	B	A	-	-	A	-	A	B	A	A	B	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	C
High Speed Brass Bath 110°F	-	A	A	A	-	B	A	-	-	A	-	A	B	A	A	B	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	D
Bronze Plating:																																				
Cu-Cd Bronze Bath R.T.	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	A	-	A	A	A	A	A	C
Cu-Sn Bronze Bath 160°F	-	B	-	D	-	C	A	-	-	A	-	D	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	A	-	A	A	A	A	D	D
Cu-Zn Bronze Bath 100°F	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	C
Cadmium Plating:																																				
Cyanide Bath 90°F	-	A	-	A	-	B	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	C
Fluoborate Bath 100°F	-	C	-	A	-	B	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	A	-	A	D	D	A	D	D
Chromium Plating:																																				
Chromic-Sulfuric Bath 130°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	C	A	D	C	A	A
Fluosilicate Bath 95°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	C	C	D	C	C	B
Fluoride Bath 130°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	D	C	D	D	C	B
Black Chrome Bath 115°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	C	-	C	A	-	C	A	D	C	A	A
Barrel Chrome Bath 95°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	D	C	D	D	C	A
Copper Plating (Cyanide):																																				
Copper Strike Bath 120°F	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	A	A	A	-	C
Rochelle Salt Bath 150°F	-	B	-	D	-	C	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	A	-	-	A	A	A	D	D
High Speed Bath 180°F	-	B	-	D	-	C	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	A	-	-	A	A	A	D	D
Copper Plating (Acid):																																				
Copper Sulfate Bath R.T.	-	A	-	A	-	D	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	D	A	D	D	A	A
Copper Fluoborate Bath 120°F	-	C	-	A	-	D	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	A	-	D	D	D	D	D	D
Copper Plating (Misc.):																																				
Copper Pyrophosphate	-	A	-	A	-	B	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	B
Copper (Electroless)	-	D	-	A	-	B	A	-	-	A	-	A	A	-	A	-	-	A	-	D	A	-	-	-	D	D	-	A	A	-	-	-	-	-	A	A
Gold Plating:																																				
Cyanide 150°F	-	-	-	D	-	D	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	A	A	B
Neutral 75°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	C	A	A
Acid 75°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	C	A	A
Indium Sulfamate Plating R.T.	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	C	A	A
Iron Plating:																																				
Ferrous Chloride Bath 190°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	C	-	-	A	-	-	B	-	-	-	B	D	-	A	-	-	-	-	D	D	A	A
Ferrous Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	A	C	A	A
Ferrous Am. Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	A	C	A	A
Sulfate-Chloride Bath 160°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	D	D	A	A
Fluoborate Bath 145°F	-	-	-	D	-	D	D	-	-	A	-	D	A	-	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	B	D	D	D
Sulfamate 140°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	B	D	A	A
Lead Fluoborate Plating	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	A	B	-	A	-	-	-	-	A	C	D	D
Nickel Plating:																																				
Watts Type 115-160°F	-	-	-	D	-	D	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	C	A	A
High Chloride 130-160°F	-	-	-	D	-	D	D	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	A	C	A	A
Nickel Plating (cont.):																																				
Fluoborate 100-170°F	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	B	-	A	-	-	-	-	A	C	D	D
Sulfamate 100-140°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	C	A	A
Electroless Nickel 200°F	-	-	-	D	-	B	D	-	-	D	-	D	A	-	D	-	-	A	-	-	-	-	-	-	D	D	-	A	-	-	-	-	-	-	-	A
Rhodium Plating 120°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	A	-	-	B	A	-	A	-	-	-	-	D	D	D	A
Silver Plating 80-120°F	-	-	-	A	-	A	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	-	-	-	-	A	A	A	B
Tin-Fluoborate Plating 100°F	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	A	C	D	D
Tin-Lead Plating 100°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	A	C	D	D
Zinc Plating:																																				

The chemical resistance information presented has been supplied by chemical and resin suppliers.
No warranty is expressed or implied. For specific recommendations call **EnviroTech Molded Products, Inc.**

Ratings – Chemical Effect

A No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Acid Chloride 140°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	D	D	A	A
Acid Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	A	C	A	A
Acid Fluoborate Bath R.T.	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	A	C	D	D
Alkaline Cyanide Bath R.T.	-	-	-	A	-	A	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	A	A	A	D
Potash	-	B	-	C	-	A	A	-	-	A	-	C	A	C	A	B	-	-	-	B	-	-	-	B	D	A	-	A	C	A	D	C	B	A	-	A
Potassium Bicarbonate	C	C	A	A	A	A	A[1]	-	-	A[1]	A	A	A	A	A	A	-	A	-	-	A	-	-	B	A	A	-	A	D	B	D	A	B	B	A	A
Potassium Bromide	-	A	A	A	A	A	B	-	-	A[1]	A	A	A	-	A	A	-	A	-	-	-	A	-	B	A	A	-	A	B	B	C	-	B	B	A	A
Potassium Carbonate	-	B	A	A	A	A	B	-	-	A[1]	A	A	A	A	A	A	-	A	-	B	A	A	-	B	A	A	-	A	D	B	D	A	B	B[1]	A[1]	A
Potassium Chlorate	-	B	C	A	A[2]	A	C[1]	-	-	A[1]	A	A	A	-	A	A	-	A	-	B	A	A	-	B	A	C	-	A	B	B[1]	B	-	C	B[1]	A	A
Potassium Chloride	C	A	A	A	A	A	B[1]	-	-	A[1]	A	A	A	A	A	A	-	A	-	A	A	A	A	A	A	A	A	A	D	A[1]	D	A	B	B[1]	A	A
Potassium Chromate	-	C	A	A	-	C	A	-	-	A[2]	-	A	A	D	A	A	-	A[1]	-	-	A	A	-	A	A	A	-	A	B[1]	B[1]	A	A	A	B[1]	-	D
Potassium Cyanide Solutions	-	C	A	A	A	A	A[1]	-	-	A[1]	A	A	A	D	A	A	-	A	-	-	A	A	A	A	A	A	A	A	D	B	D	A	B	B[1]	A	A
Potassium Dichromate	-	C	A	A	A	C	D	-	-	A[1]	A	A	A	D	A	A	-	A	-	-	A	A	A	A	A	A	A	A	B	B[1]	A	A	B	B	A	A
Potassium Ferrocyanide	-	-	A	B	A	A	B[1]	-	-	A	-	B	A	-	A	A[1]	-	A	-	-	A	A	-	A	-	A	-	A	B[1]	B[1]	A	-	B	B	A	-
Potassium Hydroxide (Caustic Potash)	C	D	C	A[1]	B	A	C[1]	-	A	A[1]	A	A[1]	A	C	A	A	B	A	-	B	A	A	A	B	B	B	C	D	D	B[1]	D	C	B[1]	B	D	D
Potassium Nitrate	-	B	A	A	-	A	B[1]	-	-	A[1]	A	A	A	-	A	B	A	A	-	C	A	A	A	A	A	A	A	A	B	B[1]	B	-	B[1]	B	A	A
Potassium Permanganate	C	C	A	A[1]	-	A	D	-	-	A	A	A[1]	A	A	A	A	-	A	-	-	B	A	-	B	A	C	-	A	B[1]	B	C	A	A[1]	B[1]	A	A
Potassium Sulfate	-	B	A	A	A[1]	A	B	-	-	A	A	A[2]	A	A	A	A[2]	-	A	-	A	A	A	B	B	A	A	A	A	D	A[1]	C	A	B[1]	B[1]	A	A
Potassium Sulfide	-	-	A	A[2]	A	-	B	-	-	A	-	A[2]	A	-	A	A[2]	-	A	-	-	A	A	B	B	A	A	A	A	-	A	-	-	-	A[1]	A	-
Propane (Liquified)	-	A	A	A[1]	A	A	A[1]	-	B	A[1]	-	A[1]	A	-	B[1]	C[1]	-	A	-	-	D	D	B	D	B	A	D	A	A	A[2]	A	-	A	A	-	A
Propylene Glycol	B	B	-	C[1]	-	C	-	-	-	-	-	C[1]	A[2]	A	A[2]	B[2]	B	A	-	-	-	-	-	-	C	A	-	A	B	A	A	A	B	B	A	A
Pyridine	-	A	A	D	A[1]	A	A	-	D	B	A	D	D	D	A[2]	B[1]	D	A	-	D	B	B	D	D	D	D	D	D	B	A	D	A	B	A	B	A
Progallic Acid	-	D	A	A	A	A	-	-	-	-	-	A	B	-	A	-	-	A	-	-	-	-	-	-	-	-	-	A	B	B[1]	B	-	B	B[2]	A	A
Rosins	-	B	A	C[1]	A	A	A[1]	-	-	-	-	C[1]	-	-	A[2]	B[1]	-	-	-	-	-	-	-	-	-	A	-	-	B[1]	B	B	-	-	A[1]	-	A
Rum	-	A	-	A	-	A	A	-	-	A	-	A	A	A	A	-	-	-	-	-	-	-	-	-	A	A	-	A	-	A	-	-	-	A	-	A
Rust Inhibitors	-	A	-	-	-	A	-	-	-	-	-	-	A	B	A	-	-	-	-	-	-	-	-	-	C	A	-	A	-	A	B	C	-	A	-	A
Salad Dressings	-	A	-	-	-	A	A	-	-	A	-	-	A	-	A	-	-	-	-	-	A	-	-	-	-	A	-	A	B	-	B	D	-	A	-	A
Sea Water	-	A	A	A	A	A	A[2]	A	A	A[1]	A	A[2]	A	A	A	A[2]	A	A	A	-	A	A	A	A	B	A	A	A	B	A	A	-	A	A	A	A
Shellac (Bleached)	-	A	A	-	-	A	A[1]	-	-	-	-	-	-	-	A	A[1]	-	A	-	-	-	-	-	-	D	A	-	-	A	A	A	A	-	A	-	A
Shellac (Orange)	-	A	A	-	-	A	A[1]	-	-	-	-	-	-	-	A	A[1]	-	A	-	-	-	-	-	-	D	A	-	-	A	A	A	A	-	A	-	A
Silicone	-	A	A	A	-	A	A[1]	-	A	A[1]	A[1]	A	A	D	A	-	A	A	-	-	A	A	A	A	A	A	C	A	A	-	A	A	-	A	-	A
Silver Bromide	-	C	-	-	A	A	-	-	-	A	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	D	A	-	-	A	A	-	-
Silver Nitrate	-	A	A	A[1]	A	A	A[1]	-	A	A	A	A[1]	A	A	A[1]	B[2]	A	A	-	B	A	A	A	A	A	B	A	A	D	B	D	D	A	B	A	A
Soap Solutions	-	A	A	A	-	A	A[1]	-	A	A[1]	A	A	A	A	A	C[2]	-	A	-	B	A	A	A	B	B	A	A	A	C	A	C	A	A	A	A	A
Soda Ash (see Sodium Carbonate)																					A	A	A	A	A	A	A	A								
Sodium Acetate	-	B	A	A	A	A	B[1]	-	-	A[1]	A	B[1]	A	-	A	B[2]	-	A	-	-	A	A	D	A	B	B	D	D	B	B	A	-	A	B	A	A
Sodium Aluminate	-	B	A	-	-	A	A[1]	-	-	A	A	-	A	-	-	-	-	A	-	-	A	A	-	B	A	A	-	A	-	A	B	-	B	A	A	A
Sodium Bicarbonate	B	A	A	A[2]	A	A	A	-	-	A	A	A[2]	A	A	A	A[2]	B	A	-	B	A	A	A	A	A	A	A	A	D	A	A	C	B[1]	B	A[2]	A
Sodium Bisulfate	C	B	A	A[2]	A[2]	A	A[1]	-	-	A[1]	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	-	A	C	B	-	A	D	A[2]	C	D	B[2]	B[1]	A	A
Sodium Bisulfite	B	B	A	A[2]	-	A	B	-	-	A[1]	A	A[2]	A	D	A	A[2]	-	A	-	B	A	A	A	A	A	A	A	A	D	B[1]	C	D	B	B[1]	A	A
Sodium Borate	-	-	A	A[2]	-	A	A[1]	-	-	A[1]	A	A[2]	A	-	A[2]	A[2]	-	A	-	-	A	A	A	A	A	A	A	A	C	A	A	-	A	B[2]	A	-
Sodium Carbonate	C	A[1]	A	A[2]	A	C[1]	B[1]	-	-	A	A	A[2]	A	A	A	B[2]	B	A	-	B	A	A	A	A	A	A	A	A	D	A[2]	B	A	A	A	A[1]	A
Sodium Chlorate	-	A	C	A[1]	-	A	D	-	-	A[1]	A	A[1]	A	-	A	B[2]	-	A	-	B	A	A	-	A	A	C	-	A	C[1]	B[1]	B	-	B[1]	B[1]	A	A
Sodium Chloride	B	A[1]	A	A[2]	A	A	B	-	A	A	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	A	A	A	A	A	A	C	B	C	A	A	C	A	A
Sodium Chromate	-	D	A	-	A	C	D	-	-	A	A	-	A	D	-	-	-	A	-	-	A	-	-	-	A	A	-	A	B	B	A	A	A	B[1]	-	B
Sodium Cyanide	-	A	A	A[2]	A	A	A[1]	-	-	A[1]	A	A[2]	A	A	A	A[2]	-	A	-	-	A	A	A	A	A	A	A	A	D	A	D	A	A	A[1]	A	A
Sodium Fluoride	-	-	A	A[2]	-	A	B	-	-	A[2]	-	A[2]	A	-	A	A[2]	-	A[1]	-	D	-	A	-	D	D	A[1]	-	A	B	C	C	-	A	D	A	-
Sodium Hydrosulfite	-	-	-	C	-	-	A	-	-	-	-	C	A	-	-	-	-	A	-	A	-	-	-	A	A	-	-	A	A	-	C	-	A	-	-	A
Sodium Hydroxide (20%)	C	A	A[2]	A	A	A[2]	A	A	A	A	A	A	A[1]	C	A	A[2]	A	A	D	B	A	A	A	A	B	B	B	B	D	A	D	A	B	A	A	D
Sodium Hydroxide (50%)	C	C	A[2]	A	A	B[2]	B	A	A	A	A	A	D	D	A	A[2]	A	A	D	B	A	A	A	A	B	B	B	B	D	B	D	C	B	B	A	D
Sodium Hydroxide (80%)	C	D	A[2]	A	A	A[1]	C	B	-	A	A	A	D	D	A	B[2]	-	A[1]	D	C	A	A	A	A	B	B	C	B	D	B	D	C	A[1]	C	D	D
Sodium Hypochlorite (<20%)	-	D	B	C[2]	A	C	D	-	A	A	A	C[2]	A	D	A[1]	B[2]	A	A	-	C	B	B	B	B	B	B	B	A	D	C	D	D	A	C	A	A
Sodium Hypochlorite (100%)	-	D	C	C[2]	A	D	D	-	-	A	A	C[2]	A	D	B	B[2]	-	A	-	-	B	B	B	C	B	B	B	A	D	C	D	D	B	D	C	D
Sodium Hyposulfate	-	-	-	-	-	C	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	C	C	-	-	-	D	-	D	-	-	A	-	-
Sodium Metaphosphate	-	B	A	A[1]	-	A	A[1]	-	-	-	-	B[2]	-	A	A[1]	A[1]	-	A	-	-	A	A	B	A	B	A	-	A	C	A	C	D	-	A	-	A
Sodium Metasilicate	-	D	-	A	-	A	-	-	-	-	-	A	-	-	A	-	-	A	-	-	A	A	-	-	A	A	-	A	D	A	B	-	A	A	-	-
Sodium Nitrate	-	A	C	A	A	A	A[1]	-	-	A[1]	A	A[2]	A	A	A	A[2]	-	A	-	B	A	A	A	B	B	B	D	A	B	B	C	A	B	B[1]	A	A
Sodium Perborate	-	B	C	A[1]	A	B	B[1]	-	-	A	-	A[2]	-	A	A	A[1]	-	A	-	-	A	A	B	B	B	B	B	A	C	B	D	C	B	B	-	A
Sodium Peroxide	-	D	A	A[2]	A	C	A[1]	-	-	-	-	B[2]	A	D	B	A	-	A	-	-	A	A	B	B	B	B	D	A	C	A	D	C	B	A	-	A
Sodium Polyphosphate	-	B	A	A[1]	A	A	A[1]	-	-	A[1]	-	A[1]	A	A	A	A	-	A	-	-	A	A	A	A	B	A	D	A	D	B	C	D	A	B	A	A
Sodium Silicate	-	C	A	A[2]	A	A	A[1]	-	-	A[1]	A	A[2]	A	A	A	A[2]	B	A	-	B	A	A	A	A	A	A	-	A	D	B	A	A	B	A	A	A
Sodium Sulfate	-	B	A	A[2]	A	A	A	-	-	A	A	A[2]	A	A	A	A[2]	-	A	-	-	A	A	A	B	A	A	A	A	A	B	C	A	B	B	A	A
Sodium Sulfide	-	B	A	A[2]	A[1]	A	A[1]	-	-	A	A	A[2]	A	D	A	A[2]	-	A	-	B	A	A	A	B	A	A	A	A	D	B[1]	D	A	B[1]	B	A	A
Sodium Sulfite	-	-	A	A[2]	A	A	D	-	-	A	-	A[2]	A	A	A[2]	B[1]	-	A	-	A	A	A	A	B	A	A	A	A	C[1]	B	C	A	B	B	A	A

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CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

A No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																				ELASTOMERS								METALS & CERAMICS							
	Cycolac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic
Sodium Tetraborate	-	B	A	A	-	A	A	-	-	A	-	A²	-	-	-	A²	-	A	-	-	A	-	-	-	-	A	-	A	C	A	-	-	-	A²	-	A
Sodium Thiosulfate (hypo)	-	C¹	A	A²	A	A	B	-	-	A	A	A²	A	A	A²	A¹	-	A	-	-	A	A	A	B	A	B	A	A	A	A²	D	C	A²	A²	A	A
Sorghum	-	A	-	-	-	A	A	-	-	-	-	-	A	D	-	-	-	-	-	-	A	-	-	-	A	A	-	A	-	A	D	A	-	A	-	A
Soy Sauce	-	A	-	-	-	A	A	-	-	A	-	-	A	D	-	-	-	-	-	-	A	-	-	D	A	A	-	A	A	A	A	D	-	A	-	A
Stannic Chloride	-	C	A	A²	A	A	B¹	-	-	A¹	A	A²	A	-	A	A²	-	A	-	-	A	A	D	A	D	A	B	A	D	A	D	D	B	D	A	A
Stannic Fluoborate	-	C	-	-	-	A	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	A	A	-	A	-	-	D	D	-	A	-	A
Stannous Chloride	-	-	-	A²	A	A	C¹	-	-	A²	A¹	A¹	A	-	A	B²	-	A	-	A	A	A	A	A	A	A	B	A	D	A¹	D	-	B	A²	A	-
Starch	-	A	A	A	A	A	A¹	-	-	A²	-	A	A	A	A²	B	-	A	-	-	A	A	-	-	A	C	-	A	A	-	A	C	-	A	-	A
Stearic Acid	-	A	A	B²	-	B	A²	-	-	A	-	B²	A	D	A²	B¹	-	A	-	B	B	B	B	B	B	B	A	-	B	B	C	C	B	A	A	A
Stoddard Solvent	B	A	A	C¹	A	A	B	-	-	D	A	C¹	A	D	C	C²	-	A	-	-	D	D	D	D	B	A	D	A	A	A	A	A	A	A	A	A
Styrene	-	A	A	D	-	A	A¹	-	-	A	-	D	A	D	-	-	-	A	-	-	D	D	D	D	D	D	D	B	A	A	A	-	D	A	-	A
Sugar (Liquids)	B	A	A	-	-	A	A¹	-	-	A²	-	-	A	-	A	-	-	A	-	B	A	A	B	A	B	A	A	A	A	A	A	-	A	A	-	A
Sulfate (Liquors)	-	D	A	B	-	A	B¹	-	-	-	-	B	A	D	A	A²	A	A	-	-	B	B	B	B	B	B	D	A	D	B	D	D	B	B	-	A
Sulfur Chloride	-	D	D	C¹	A	C	A¹	-	-	A	-	C¹	A¹	-	A¹	C¹	-	A	-	C	D	D	D	D	D	D	C	A	D	B	D	D	A	D	B	C
Sulfur Dioxide	D	B	A	A²	A	A¹	C¹	-	-	A	A	A¹	A	-	A¹	B¹	-	A	-	C	B	A	C	D	B	D	A	A	B	B	B	-	C	A¹	A	A
Sulfur Dioxide (Dry)	-	B	A	A²	A	A¹	B¹	-	-	A	A	A²	A	A	A¹	A¹	B	A	-	C	B	A	D	B	D	D	A	A	B	B	A	A	B	A	A	A
Sulfur Trioxide (Dry)	-	D	D	A	-	A	A¹	-	-	D	-	A¹	D	-	D	C¹	B	A	-	B	B	B	D	B	D	D	B	A	A	B	B	-	B	A	D	A
Sulfuric Acid (<10%)	B	D	A¹	A	A	A¹	C¹	A	A	A	A	A¹	A	D	A²	A¹	A	A	A	B	B	B	A	C	B	D	D	A	D	B	D	D	B¹	B	D	A
Sulfuric Acid (10-75%)	B	D	A¹	A	A	A¹	D	A	B	A	A	A¹	A	D	A¹	A¹	A	A	B	-	B	B	C	D	D	D	D	A	D	B	D	D	B¹	D	D	D
Sulfuric Acid (75-100%)	-	-	C¹	C	A	C¹	D	D	C	A	A¹	D	A	D	C¹	B¹	C	A	-	D	B	B	D	D	D	D	D	A	D	B	D	D	B¹	D	D	A
Sulfuric Acid (Hot Conc)	-	-	D	D	A	D	D	D	D	D	D	D	A²	D	D	D	D	A	-	D	D	D	D	D	D	D	D	A	D	B	D	D	D	C	D	-
Sulfuric Acid (Cold Conc)	-	-	D	D	A	D	D	D	D	A	A¹	D	A	D	A²	C	B	A	-	D	B	B	B	D	D	D	D	A	B	B	D	D	A¹	B	D	-
Sulfurous Acid	-	C	A	A²	A	A	D	-	D	A	A	A²	A	-	A	B²	-	A	-	B	B	B	A	B	B	B	D	A	B¹	B	D	D	B	B	A	A
Sulfuryl Chloride	-	A	-	-	-	A	-	-	-	-	-	-	D	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A
Tallow	-	A	A	-	-	A	A¹	-	-	A	-	-	A	-	A²	C	-	A	-	-	-	-	-	-	-	A	-	A	A	-	-	-	-	A	-	A
Tannic Acid	-	B	A	A¹	A	A	C¹	-	-	A²	A	A¹	A	-	A	B²	-	A	-	B	A	A	B	A	B	A	B	A	C	B	A	C	B¹	A	A	A
Tanning Liquors	-	B	A	A¹	-	A	A¹	-	-	A²	-	A¹	A	C	A¹	A¹	-	A	-	B	A	B	-	-	A	A	-	A	A	A²	A	-	B	A²	A	A
Tartaric Acid	-	B	A	A¹	A²	A	B²	-	A	A¹	A	A¹	A	A	A	A¹	A	A	-	B	B	B	A	A	B	A	A	A	B¹	B¹	A	C	B	C²	A¹	A
Tetrachloroethane	-	A	A	C	A	A	A	-	-	D	-	C	A	-	C	-	D	A	-	-	D	-	-	D	-	D	-	A	C	-	-	-	A	A	A	A
Tetrachlorethylene	-	A	A	D	A	-	A¹	-	-	D	-	D	A	-	D	B	D	A	-	-	D	D	D	D	D	D	-	A	-	-	-	-	-	A	-	-
Tetrahydrofuran	-	A	A	D	A¹	A	B	-	D	D	A	D	D	-	C²	C¹	D	A	-	-	B	B	D	D	D	D	-	D	-	A	D	-	A	A	B	A
Toluene (Toluol)	D	C¹	A	D	B²	B¹	A¹	A	D	D	A	D	A²	A	C¹	C¹	D	A	A	D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	A	A
Tomato Juice	B	B	A	-	A	A	A¹	-	-	A	A	A	A	-	A	A¹	A	A	-	-	A	-	-	-	A	A	-	-	A	A	C	-	-	A	-	A
Trichloroethane	-	A	A	-	A	A	A¹	-	-	D	-	C	A	D	C	-	C	A	-	-	D	D	D	D	D	D	D	A	C	A	A	A	A	A	A	A
Trichlorethylene	D	B	A	D	A	C¹	B¹	A	C	D	A¹	D	A	A	C¹	C¹	D	A	-	-	C	D	D	D	D	C	D	A	A¹	B	A	C	B	B	A	A
Trichloropropane	D	A	-	-	A	A	-	-	-	D	-	-	A	D	-	-	D	A¹	-	-	-	-	-	-	A	A	-	A	-	A	A	A	A	A	-	A
Tricresylphosphate	-	C	A	D	-	A	A²	-	-	A	-	D	D	-	A¹	B¹	-	A	-	-	A	A	D	D	D	D	C	B	D	A²	A	-	A	A²	B	A
Triethylamine	-	D	A	A	A	A	A¹	-	-	B	-	A	A²	-	D	-	-	A	-	-	-	-	-	-	B	A	-	A	-	-	A	A	-	A	-	A
Turpentine	-	A²	A	A	A	B	A¹	-	A	A¹	A	B¹	A	-	B¹	C¹	C	A	-	B	D	D	D	D	D	A	D	A	A	A	C	-	B	A	B	A
Urine	-	A	A	A	-	A	A¹	-	-	A²	-	A	A	A	A	A²	-	A¹	-	-	A¹	A¹	-	-	D	A¹	-	A¹	B	A	C	A	-	A	-	A
Varnish	-	A	A	-	A	A	C¹	-	A	D	-	D	A	A	A	C¹	-	A	-	-	D	D	D	D	D	B	D	A	A	-	A	C	-	A	-	A
Vegetable Juice	-	A	-	-	-	A	A	-	A	A	-	-	A	A	A	-	-	-	A	-	C	-	-	D	C	C	-	A	A	A	C	D	-	C	-	A
Vinegar	B	B	A	A	A	A	C	-	A	A¹	A	A²	A	-	A	B²	A	A	A	B	A	A	A	B	B	B	A	A	B	A	C	C	A	A	A	A
Water, Acid, Mine	B	A¹	A	A	A	A	B¹	A	A	-	A	A²	A	-	A	A²	A	A	-	B	A	A	-	B	C	A	B	A	C	A	C	C	A	A	A	A
Water, Distilled	A	C	A	A	A	A	A¹	A	A	A	A	A²	A	A	A	A²	A	A	A	B	A	A	-	A	A	A	-	A	A	A	D	D	A	A	A	A
Water, Fresh	A	A¹	A	A	A	A	A¹	A	A	A	A	A²	A	A	A	A²	A	A	A	B	A	A	-	A	A	A	B	A	B	A¹	A	A	A	A	A	A
Water, Salt	-	A	A	A	A	A	A²	A	A	A	A	A²	A	A	A	A²	A	A	A	B	A	A	-	A	A	A	-	A	B	A	D	A	A	B	A	A
Weed Killers	-	A	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	-	A	C	-	C	-	-	A	-	A
Whey	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	A	-	A	B	-	-	-	-	A	-	A
Whiskey & Wines	-	A	A	A²	A	B	A¹	-	A	A²	-	A²	A	A	A	C	-	A	A	C	A	A	A	A	A	A	A	A	C¹	A	C	D	-	A	A	A
White Liquor (Pulp Mill)	-	D	A	-	-	A	A¹	-	A	A¹	-	A²	A¹	A	A²	A²	-	A	-	-	-	-	-	-	A	A	-	A	-	A	D	C	A	A	-	A
White Water (Paper Mill)	-	B	-	-	-	A	A	-	A	D	-	A	-	A	A	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	A	A	-	A	-	A
Xylene	D	A	A	-	A	A	A²	A	C	D	A	D	A	A	C¹	C¹	D	A	-	D	D	D	D	D	D	D	D	A	A¹	A	A	A	A	A	A	A
Zinc Chloride	-	C	A	A	A	A	D	-	A	A¹	A	A²	A	A	A	A¹	A	A	A	B	A	A	A	A	A	A	-	A	D	B	D	D	B	D	A¹	A
Zinc Hydrosulfite	-	C	-	-	-	A	A	-	B	A	A	-	-	A	-	-	-	-	-	-	A	A	-	-	A	A	-	-	D	-	D	D	-	A	-	A
Zinc Sulfate	-	C	A	A	A	A	C¹	-	A	A¹	A	A²	A	A	A	A²	-	A	-	B	A	A	A	B	A	A	A	A	D	B	C	C	B	B	A	A

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Enviro Tech Molded Products, Inc.
U. S. Sales and Manufacturing

1075 W. North Temple
Salt Lake City, UT 84116-3303

Phone +1 801 323 2900
Fax +1 801 323 2913
E-mail: info@empslc.com
www.empslc.com

Enviro Tech Molded Products S. r. L
Europe Sales and Manufacturing

Via della Filanda, 4
26900 SAN GRATO – LODI (Italy)

Phone +39 (0) 371 413 748
Fax +39 (0) 371 612 245
E-mail: empitaly@empitaly.it
www.empslc.com

EnviroTech Molded Products Inc., is a wholly owned subsidiary of the Klinkau Group

Klinkau GmbH + Co.
World Headquarters

Raiffeisenstrasse 6
87616 Marktoberdorf
Germany

Phone +49 (0) 8342 40050
Fax +49 (0) 8342 400528
E-mail: info@klinkau.de

Klinkau America Inc.
U.S. Sales and Manufacturing

35 East Uwchlan Avenue
Suite 300
Exton PA 19341
USA

Phone +1 610 594 7094
Fax +1 610 594 7099
E-mail: info@klinkauamerica.com

Klinkau Asia Sdn. Bhd.
Sales and Manufacturing

No. 30 Jalan Teknologi 3/1
Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
Malaysia

Phone +60 (0) 3-615 73373
Fax +60 (0) 3-615 73353
E-mail: klinkauasia@po.jaring.my

Klinkau GmbH + Co.
R O Shanghai
Representative Office China

5A West Tower DaAn Plaza
829 Central YanAn Road
Shanghai 200040
P.R. China

Phone +86 (0) 21 62473480
Fax +86 (0) 21 62895377
E-mail: klinkaush@sh163.net