



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|---|-------------|---------------|--|------------|-----------|------------|
| Acetaldehyde | 000075-07-0 | 40% | 3/4 | 4/4 | 2/3 | 1/1 |
| Acetaldehyde | 000075-07-0 | techn. pure | 3/4 | 4/4 | 2/3 | 1/1 |
| Acetamide | 000060-35-5 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Acetic acid | 000064-19-7 | 50% | 1/1 | 1/1 | 1/2 | 1/1 |
| Acetic acid | 000064-19-7 | 100% | 1/3 | 1/1 | 0/0 | 1/1 |
| Acetic acid | 000064-19-7 | 90% | 1/2 | 1/1 | 1/1 | 1/1 |
| Acetic acid | 000064-19-7 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Acetic acid | 000064-19-7 | 5% | 1/1 | 1/1 | 1/1 | 1/1 |
| Acetic acid chloride see: Acetyl chloride | | | | | | |
| Acetic acid sodium salt see: Sodium acetate | | | | | | |
| Acetic aldehyde see: Acetaldehyde | | | | | | |
| Acetic anhydride | 000108-24-7 | techn. pure | 1/3 | 4/4 | 0/0 | 1/1 |
| Acetic chloride see: Acetyl chloride | | | | | | |
| Acetone | 000067-64-1 | | 1/3 | 3/4 | 2/3 | 1/1 |
| Acetonitrile | 000075-05-8 | | 3/4 | 1/1 | 1/1 | (1) |
| Acetonyl chloride see: Chloroacetone | | | | | | |
| Acetophenone | 000098-86-2 | | 1/3 | 1/3 | 1/1 | 1/1 |
| Acetyl chloride | 000075-36-5 | 100% | 3/4 | 1/1 | 0/0 | 1/0 |
| Acetylene | 000074-86-2 | 100% | 1/0 | (1) | (1) | 1/0 |
| Acetyloxybenzoic acid, 2- see: Acetylsalicylic acid | | | | | | |
| Acetylsalicylic acid | 000050-78-2 | 100% | 1/2 | 1/2 | 1/1 | 1/1 |
| Acrylonitrile | 000107-13-1 | | 3/4 | 3/3 | 1/2 | 1/0 |
| Adipic acid | 000124-04-9 | saturated | 1/1 | 1/0 | 1/1 | 1/1 |
| Alanine, L- | 000056-41-7 | - | 1/1 | (1) | 1/1 | 1/1 |
| Allspice | - | ground | 4/4 | (2) | (1) | (1) |
| Allyl acetate | 000591-87-7 | 100% | 1/3 | (2) | 0/0 | 1/1 |
| Allyl alcohol | 000107-18-6 | 96% | 2/2 | (2) | 1/1 | 1/1 |
| Allyl chloride | 000107-05-1 | 100% | 4/4 | 1/1 | 0/0 | (2) |
| Allyl mustard oil | 000057-06-7 | | (2) | (2) | 0/0 | (1) |
| Almond oil, sweet | 008007-69-0 | - | (2) | 1/1 | 0/0 | 1/1 |
| Alumina acidic | 000142-03-0 | saturated | 1/1 | (1) | 1/1 | 1/1 |

Legend

Two values are given per substance
left number = value at +20°C /
right number = value at +50°C.

0 no data available
1 resistant
2 practically resistant
3 partially resistant
4 not resistant

K no general information available
L danger of pitting or stress-cracking corrosion
() estimated value



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|--|-------------|---------------|--|------------|-----------|------------|
| Aluminium fluoride | 007789-18-1 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Aluminum ammonium dodecahydrate | 007784-26-1 | saturated | 1/1 | (1) | 0/0 | 1/1 |
| Aluminum chloride | 007784-13-6 | 10% | 1/1 | 1/1 | 2/2 | 1/1 |
| Aluminum chloride | 007784-13-6 | solid | 1/1 | (2) | 0/0 | (1) |
| Aluminum chloride | 007784-13-6 | saturated | 1/1 | 1/1 | 0/0 | (1) |
| Aluminum hydroxide | 021645-51-2 | Xi | 1/2 | 1/1 | 1/1 | 1/1 |
| Aluminum nitrate | 013473-90-0 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Aluminum oxide, alpha- | 001344-28-1 | solid | 1/1 | 1/1 | 1/1 | 1/1 |
| Aluminum potassium sulfate | 010043-67-1 | diluted | 1/1 | 1/1 | 1/1 | 1/1 |
| Aluminum potassium sulfate | 010043-67-1 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Aluminum sodium sulfate | 010102-71-3 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Aluminum sulfate | 010043-01-3 | 10% | 1/1 | 1/1 | 0/0 | 1/1 |
| Aluminum sulfate | 010043-01-3 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Aminic acid see: Formic acid | | | | | | |
| Aminoacetic acid see: Glycine | | | | | | |
| Aminoethanol | 000141-43-5 | | 1/2 | (2) | 0/0 | (1) |
| Aminopropanoic acid, alpha see: Alanine, L- | | | | | | |
| Ammonium acetate | 000631-61-8 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium bicarbonate | 001066-33-7 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium bisulfide | 012124-99-1 | each | 1/1 | (1) | 0/0 | 1/1 |
| Ammonium carbonate | 010361-29-2 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium carbonate | 010361-29-2 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium chloride | 012125-02-9 | solid | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium chloride | 012125-02-9 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium difluoride | 001341-49-7 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium ferric sulfate | 007783-83-7 | saturated | 1/1 | (1) | 0/0 | 1/1 |
| Ammonium ferrous sulfate | 007783-85-9 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium fluoride | 012125-01-8 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium fluoride | 012125-01-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium glycolate | 035249-89-9 | | 1/2 | (1) | 1/1 | 1/1 |
| Ammonium heptamolybdate | 012054-85-2 | | 1/1 | (1) | 0/0 | 1/1 |
| Ammonium hydroxide | 001336-21-6 | 30% | 1/2 | (2) | 1/1 | 1/1 |
| Ammonium hydroxide | 001336-21-6 | 5% | 1/1 | (2) | 1/1 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Ammonium hydroxide | 001336-21-6 | | 1/1 | 1/3 | 1/1 | 1/1 |
| Ammonium mercaptan see: Ammonium bisulfide | | | | | | |
| Ammonium nitrate | 006484-52-2 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium nitrate | 006484-52-2 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium nitrite | 013446-48-5 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium oxalate | 014258-49-2 | | 1/2 | (1) | 1/1 | 1/1 |
| Ammonium persulfate | 007727-54-0 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium persulfate | 007727-54-0 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium phosphate, Mono- | 007722-76-1 | each | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium polyphosphate (APP) | 068333-79-9 | | 1/1 | (1) | 1/1 | 1/1 |
| Ammonium rhodanide see: Ammonium thiocyanate | | | | | | |
| Ammonium salt see: Ammonium nitrate | | | | | | |
| Ammonium sulfate | 007783-20-2 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium sulfate | 007783-20-2 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ammonium sulfide | 012135-76-1 | each | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium sulfide | 012135-76-1 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Ammonium sulfocyanide see: Ammonium thiocyanate | | | | | | |
| Ammonium thiocyanate | 001762-95-4 | | 1/1 | (1) | 1/1 | 1/1 |
| Ammonium salt; Ammonium sulfocyanate | | | | | | |
| Amomum | - | | (2) | (1) | 0/0 | (1) |
| Amyl acetate, normal | 000628-63-7 | | 3/4 | 1/3 | 1/1 | 1/1 |
| Amyl alcohol, n- see: Pentanol, 1- | | | | | | |
| Amyl chloride | 000543-59-9 | | 4/4 | 1/1 | 1/1 | 1/1 |
| Amyl cinnamic aldehyde | 000122-40-7 | | (3) | (2) | 0/0 | (1) |
| Aniline | 000062-53-3 | | 2/3 | 1/4 | 2/4 | 1/1 |
| Aniline hydrochloride | 000142-04-1 | saturated | 1/3 | 1/1 | 0/0 | 1/1 |
| Anise | - | | (2) | (1) | 0/0 | (1) |
| Anise oil | 084775-42-8 | | (3) | (3) | 0/0 | (1) |
| Anisole | 000100-66-3 | 100% | 3/3 | (3) | 0/0 | 1/1 |
| Antifreeze agent (car) | - | | 1/1 | 1/1 | 0/0 | 1/0 |

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|---|-------------|---------------|--|------------|-----------|------------|
| Antimony pentachloride | 007647-18-9 | | 1/1 | (2) | 0/0 | 0/0 |
| Antimony trichloride | 010025-91-9 | 90% | 1/1 | 1/1 | 0/0 | 1/1 |
| Antimony trichloride | 010025-91-9 | anhydrous | 1/1 | (2) | 0/0 | (1) |
| Antimony trichloride | 010025-91-9 | aqueous | 1/1 | 1/1 | 0/0 | (1) |
| Apple juice | - | | 1/1 | (1) | 1/1 | 1/1 |
| Arsenic acid | 022538-92-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Arsenic acid | 022538-92-7 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Arsenic pentoxide | 001303-28-2 | | 1/1 | (2) | 0/0 | 1/1 |
| Ascorbic acid | 000050-81-7 | aqueous | 1/1 | (1) | 1/1 | 1/1 |
| Atropine sulfate | 000055-48-1 | | 1/1 | (1) | 1/1 | 1/1 |
| Azabenzene see: Pyridine | | | | | | |
| Azacyclohexane see: Piperidine | | | | | | |
| Azine see: Pyridine | | | | | | |
| Azole see: Pyrrole | | | | | | |
| Barium carbonate | 000513-77-9 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Barium chloride | 010361-37-2 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Barium chloride | 010361-37-2 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Barium dibromide | 010553-31-8 | | 1/1 | (1) | 1/1 | 1/1 |
| Barium hydroxide | 012230-71-6 | saturated | 1/1 | 1/3 | 0/0 | 1/1 |
| Barium hydroxide | 012230-71-6 | aqueous | 1/1 | 1/3 | 0/0 | 1/1 |
| Barium sulfide | 021109-95-5 | saturated | 1/1 | (2) | 0/0 | 1/1 |
| Battery acid | 007664-93-9 | 38% | 1/1 | 1/1 | (1) | 1/1 |
| Beef tallow | 061789-97-7 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Beef tallow emulsion | - | sulfonated | 1/0 | 1/1 | 0/0 | 1/1 |
| Beer | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Beeswax | 008012-89-3 | | 1/3 | (1) | 1/1 | 1/1 |
| Benzaldehyde | 000100-52-7 | | 1/4 | 1/1 | 1/3 | 1/1 |
| Benzene | 000071-43-2 | | 3/4 | 1/3 | 1/2 | 1/1 |
| Benzene chloride see: Chlorobenzene | | | | | | |
| Benzenesulfonic acid | 000098-11-3 | saturated | 2/4 | 1/4 | 0/0 | 1/1 |
| Benzoic acid | 000065-85-0 | saturated | 1/3 | 1/1 | 1/1 | 1/1 |
| Benzoic acid | 000065-85-0 | aqueous | 1/3 | 1/1 | 1/1 | 1/1 |
| Benzoic acid chloride see: Benzoyl chloride | | | | | | |

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|--|-------------|---------------|--|------------|-----------|------------|
| Benzoyl chloride | 000098-88-4 | 100% | 3/4 | 1/1 | 0/0 | 1/1 |
| Benzyl acetate | 000140-11-4 | | 1/2 | (3) | 1/2 | 1/0 |
| Benzyl alcohol | 000100-51-6 | | 4/4 | 1/1 | 1/1 | 1/1 |
| Benzyl benzoate | 000120-51-4 | | (3) | (2) | 0/0 | (1) |
| Benzyl chloride | 000100-44-7 | 100% | 4/4 | (3) | 0/0 | 1/0 |
| Benzyl ether | 000103-50-4 | | (3) | (2) | 0/0 | (1) |
| Bismuth chloride | 007787-60-2 | | 1/1 | (2) | 0/0 | 1/1 |
| Bismuth nitrate, basic | 001304-85-4 | | 1/1 | (2) | 0/0 | 1/1 |
| Bisulfite solution | ?? | | 1/1 | 1/1 | 0/0 | 1/1 |
| Bisulfite solution, containing SO ₂ | ?? | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Bitter almond oil | 090320-35-7 | | 1/4 | 1/1 | 1/3 | 1/1 |
| Bitumen | 008052-42-4 | | 1/3 | (2) | 0/0 | (1) |
| Bone oil | 008001-85-2 | | 1/1 | (1) | 0/0 | 1/1 |
| Boric acid | 010043-35-3 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Boric acid | 010043-35-3 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Brake fluid | - | | 1/1 | (3) | 0/0 | 1/0 |
| Bromic acid | 007789-31-3 | concentrated | 3/0 | (2) | 0/0 | (1) |
| Bromine | 007726-95-6 | | 4/4 | 1/1 | 1/2 | 1/3 |
| Bromine pentafluoride | 007789-30-2 | | (3) | (3) | 0/0 | (2) |
| Bromine steams | 007726-95-6 | | 4/4 | (1) | 0/0 | 1/0 |
| Bromine trifluoride | 007787-71-5 | | (3) | (3) | 0/0 | (2) |
| Bromine water | 007726-95-6 | saturated | 4/4 | 1/1 | 0/0 | 1/1 |
| Bromobenzene | 000108-86-1 | | 4/4 | 1/1 | 2/4 | 1/0 |
| Bromochloromethane | 000074-97-5 | 100% | 4/4 | (3) | 0/0 | 1/0 |
| Bromotrifluoromethane | 000075-63-8 | | (3) | 0/0 | 0/0 | (1) |
| Butadiene, 1,3- | 000106-99-0 | | 4/4 | 1/1 | 1/1 | 1/1 |
| Butanal see: Butyraldehyde | | | | | | |
| Butane | 000106-97-8 | techn. pure | 1/1 | 1/0 | 0/0 | 1/1 |
| Butanedicarboxylic acid, 1,4- see Adipic acid | | | | | | |
| Butanetriol | - | 100% | 1/1 | (1) | 0/0 | 1/1 |
| Butanol see: Butyl alcohol, normal | | | | | | |
| Butene | - | techn. pure | 4/4 | 1/0 | 0/0 | 1/0 |

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|---|-------------|---------------|--|------------|-----------|------------|
| Butoxybutane, 1- see: Butyl ether, (Di-) n- | | | | | | |
| Butter | - | - | 1/1 | (1) | 0/0 | 1/1 |
| Butyl acetate, normal | 000123-86-4 | 100% | 3/4 | 1/4 | 1/2 | 1/1 |
| Butyl acrylate | 000141-32-2 | 100% | 3/4 | 1/3 | 1/1 | 1/1 |
| Butyl alcohol, normal | 000071-36-3 | techn. pure | 1/2 | 1/1 | 1/1 | 1/1 |
| Butyl alcohol, sec- | 000078-92-2 | | 1/2 | 1/1 | 1/1 | 1/1 |
| Butyl alcohol, tert- | 000075-65-0 | | 1/2 | 1/1 | 1/1 | 1/1 |
| Butyl aldehyde see: Butyraldehyde | | | | | | |
| Butyl carbinol, n- see: Pentanol, 1- | | | | | | |
| Butyl ether, (Di-) n- | 000142-96-1 | techn. pure | 3/4 | 1/1 | 0/0 | 1/1 |
| Butyl ethylene see: Hexene, 1- | | | | | | |
| Butyl stearate | 000123-95-5 | 100% | (2) | (1) | 0/0 | (1) |
| Butylamine | 000109-73-9 | F, C | 2/0 | (2) | 0/0 | (1) |
| Butylene glycol | - | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Butylene hydrate see: Butyl alcohol, sec- | | | | | | |
| Butylphenol | - | 100% | 1/1 | 1/1 | 0/0 | 1/1 |
| Butylphenol, p-tert | 000098-54-4 | techn. pure | 1/0 | 1/1 | 0/0 | 1/0 |
| Butyraldehyde | 000123-72-8 | | (2) | (3) | 0/0 | (2) |
| Butyric acid | 000107-92-6 | | 4/4 | 1/1 | 1/1 | 1/1 |
| Cadmium bromide | 007789-42-6 | | (1) | (1) | 0/0 | 1/1 |
| Calcium bicarbonate | - | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium bisulfite | 013780-03-5 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium bisulfite | 013780-03-5 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium bromide | 007789-41-5 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium carbide | 000075-20-7 | | 1/1 | (1) | 0/0 | 1/1 |
| Calcium carbonate | 000471-34-1 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium chlorate | 010137-74-3 | saturated | 1/1 | 1/1 | 0/0 | (1) |
| Calcium chloride | 010043-52-4 | alcoholic | 1/1 | (1) | 0/0 | 1/0 |
| Calcium chloride | 010043-52-4 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium hydroxyde | 001305-62-0 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium hydroxyde | 001305-62-0 | concentrated | 1/1 | 1/3 | 1/1 | 1/1 |
| Calcium hypochlorite | 007778-54-3 | saturated | 1/1 | 1/3 | 1/1 | 1/1 |

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|---|-------------------|---------------|--|------------|-----------|------------|
| Calcium hypochlorite | 007778-54-3 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium nitrate | 010124-37-5 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium nitrate | 010124-37-5 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium oxide | 001305-78-8 | powder | 1/1 | (1) | 1/1 | 1/1 |
| Calcium phosphate | 007758-87-4 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium phosphate | 007758-87-4 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium sulfate | 007778-18-9 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Calcium sulfide | 020548-54-3 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Calcium sulfide | 020548-54-3 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Calciumacetat | 000062-54-4 | aqueous | 1/1 | (1) | 1/1 | 1/1 |
| Camphor | 000464-48-2/-49-2 | | 1/0 | (3) | 0/0 | 1/0 |
| Camphor oil | 008008-51-3 | | 4/4 | (3) | 0/0 | (2) |
| Caprylic alcohol | 000111-87-5 | | (2) | (1) | 0/0 | (1) |
| Caraway | - | ground | (2) | (1) | 0/0 | (1) |
| Carbazole | 000086-74-8 | | 1/1 | (2) | 1/1 | (2) |
| Carbolineum | 008001-58-9 | aqueous | 1/0 | (2) | 0/0 | 1/0 |
| Carbon dioxide | 000124-38-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Carbon dioxide, damp | 000124-38-9 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Carbon dioxide, dry | 000124-38-9 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Carbon disulfide | 000075-15-0 | | 4/4 | 1/1 | 1/3 | 1/0 |
| Carbon tetrabromide | 000558-13-4 | | 3/4 | (2) | 0/0 | (1) |
| Carbon tetrachloride (TETRA) | 000056-23-5 | | 4/4 | 1/3 | 1/1 | 1/1 |
| Carbon tetrafluoride | 000075-73-0 | | (3) | 0/0 | 0/0 | (1) |
| Carbonyl chloride see: Phosgene | | | | | | |
| Carnauba wax | 008015-86-9 | | 1/1 | (1) | 0/0 | 1/1 |
| Castor oil | 008001-79-4 | 100% | 1/1 | 1/1 | 0/0 | 1/1 |
| Caustic potash see: Potassium hydroxide | | | | | | |
| Cedar wood oil | 008000-27-9 | | 4/4 | (2) | 1/2 | (1) |
| Cesium bromide | 007787-69-1 | | 1/1 | (1) | 1/1 | 1/1 |
| Cetyl alcohol | 036653-82-4 | 100% | 1/1 | 1/1 | 1/1 | 1/1 |
| Chalk | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Chloral hydrate | 000302-17-0 | techn. pure | 3/4 | 4/4 | 0/0 | 1/1 |

Legend

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Chloramine-T | 000127-65-1 | diluted | (3) | 3/4 | 0/0 | 1/0 |
| Chloric acid | 007790-93-4 | 1% | 1/3 | 1/1 | 0/0 | 1/1 |
| Chloric acid | 007790-93-4 | 10% | 4/4 | 1/1 | 0/0 | 1/1 |
| Chloric acid | 007790-93-4 | 20% | 1/4 | 1/0 | 0/0 | 1/1 |
| Chloric acid, sodium salt see: Sodium chlorate | | | | | | |
| Chlorine | 007782-50-5 | 10 % wet | 4/4 | (2) | 1/1 | 1/1 |
| Chlorine | 007782-50-5 | 97% | 4/4 | 1/1 | 0/0 | 1/0 |
| Chlorine | 007782-50-5 | steam | 4/4 | 1/1 | 0/0 | 1/0 |
| Chlorine dioxide | 010049-04-4 | | (3) | (2) | 0/0 | 1/0 |
| Chlorine trifluoride | 007790-91-2 | | (4) | (4) | 0/0 | (2) |
| Chlorine water | 007782-50-5 | | 3/4 | 1/1 | 1/1 | 1/1 |
| Chloro acetophenone, | 000099-91-2 | | 1/1 | (2) | 1/1 | (2) |
| Chloro-1-propene, 3- see: Allyl chloride | | | | | | |
| Chloro-2-propanone, 1- see: Chloroacetone | | | | | | |
| Chloroacetic acid | 000079-11-8 | 50% | 1/1 | 1/4 | 0/0 | 1/1 |
| Chloroacetic acid | 000079-11-8 | | 1/2 | 4/4 | 1/1 | 1/1 |
| Chloroacetone | 000078-95-5 | | (2) | (3) | 0/0 | (2) |
| Chlorobenzene | 000108-90-7 | | 3/4 | 1/1 | 1/1 | 1/1 |
| Chlorodifluoroethane | 000075-68-3 | | (3) | 0/0 | 0/0 | (1) |
| Chlorodifluoromethane | 000075-45-6 | | 4/4 | (3) | 0/0 | 1/0 |
| Chloroethane, 1- see: Monochlorethane | | | | | | |
| Chloroethyl alcohol, 2- | 000107-07-3 | techn. pure | 4/4 | 1/3 | 0/0 | 1/0 |
| Chloroethylene see: Vinyl chloride (VCM) | | | | | | |
| Chlorofluorocarbons | - | - | (3) | (3) | 0/0 | (1) |
| Chlorofluoromethane | 000593-70-4 | | (3) | 0/0 | 0/0 | (1) |
| Chloroform | 000067-66-3 | 100% | 3/4 | 1/1 | 2/3 | 1/1 |
| Chloroformyl chloride see: Phosgene | | | | | | |
| Chloronaphthalene, 1- | 000090-13-1 | | 4/4 | 1/1 | 0/0 | (1) |
| Chloropentafluoroethane | 000076-15-3 | | (3) | 0/0 | 0/0 | (1) |
| Chloroprene | 000126-99-8 | | (3) | (2) | 0/0 | (1) |
| Chloropropylene, 3- Allyl chloride | | | | | | |

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|---|-------------|---------------|--|------------|-----------|------------|
| Chlorosulfonic | 007790-94-5 | techn. Pure | 4/4 | 3/4 | 0/0 | 1/0 |
| Chlorotoluene | - | | (3) | 1/1 | 0/0 | 1/0 |
| Chlorotrifluoromethane | 000075-72-9 | | (3) | 0/0 | 0/0 | (1) |
| Chromic acid | 001333-82-0 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Chromic acid | 001333-82-0 | 20% | 3/3 | 1/1 | 0/0 | 1/1 |
| Chromic acid | 001333-82-0 | 50% | 3/3 | 1/1 | 1/1 | 1/1 |
| Chromic potassium sulfate | saturated | | 1/1 | 1/1 | 1/1 | 1/1 |
| Chromic-sulfuric acid | 065272-71-1 | concentrated | 4/4 | 4/4 | 1/1 | 1/1 |
| Chromium salts | - | each | 1/1 | (1) | 0/0 | 1/1 |
| Chromium trioxide see: Chromic acid | | | | | | |
| Cinnamaldehyde | 000104-55-2 | | (3) | (2) | 0/0 | (1) |
| Cinnamon | - | ground | (2) | (1) | 0/0 | (1) |
| Cinnamon oil | 008007-80-5 | | 4/4 | (2) | 1/2 | (1) |
| Citric acid | 000077-92-9 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Citric acid | 000077-92-9 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Citric acid | 000077-92-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Citrus juices | - | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Cleaning agents | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Clophen A60 | 011096-82-5 | | 4/4 | (2) | 0/0 | (1) |
| Coal gas, without benzene | - | | 1/0 | 1/0 | 0/0 | 1/0 |
| Cobalt dichloride | 007646-79-9 | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Cocoa | - | | (2) | (1) | 1/1 | (1) |
| Cocoa butter | 008002-31-1 | | (2) | (1) | 0/0 | 1/1 |
| Coconut butter | - | | (2) | 1/1 | 0/0 | 1/1 |
| Coconut fatty alcohol | 068425-37-6 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Coconut oil | 008001-31-8 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Cod-liver oil | 008001-69-2 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Colza oil | 008002-13-9 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Compressed air | - | oleagineus | 3/0 | 1/1 | 0/0 | 1/1 |
| Condy's crystals see: Potassium permanganate | | | | | | |
| Copper acetate | 004180-12-5 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Copper sulfate | 007758-99-8 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Cotton oil | 008001-29-4 | techn. Pure | 1/1 | (1) | 0/0 | 1/1 |

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|----------------------------------|-------------|---------------|--|------------|-----------|------------|
| Creosote | - | | 3/4 | (3) | 0/0 | 1/1 |
| Creosote see: Carbolineum | | | | | | |
| Cresol (-mixtures) | 001319-77-3 | | 2/3 | 1/1 | 1/2 | 1/1 |
| Crotonaldehyde | 004170-30-3 | techn. pure | 1/0 | 1/3 | 0/0 | 1/0 |
| Crude oil | - | 100% | 1/3 | 1/1 | 0/0 | 1/1 |
| Cumene | 000098-82-8 | | 3/4 | (2) | 1/2 | (1) |
| Cupric chloride | 007447-39-4 | saturated | 1/3 | 1/1 | 0/0 | 1/1 |
| Cupric nitrate | 003251-23-8 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Cupric nitrate | 003251-23-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Cuprous chloride | 007758-89-6 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Cuprous cyanide | 000544-92-3 | saturated | 1/3 | 1/1 | 0/0 | 1/1 |
| Curry | - | | (2) | (1) | 0/0 | (1) |
| Cyanoethylene see: Acrylonitrile | | | | | | |
| Cyanomethane see: Acetonitrile | | | | | | |
| Cyclanon | - | | 1/1 | (1) | 0/0 | 1/1 |
| Cyclohexane | 000110-82-7 | | 3/4 | 1/1 | 1/2 | 1/1 |
| Cyclohexanol | 000108-93-0 | techn. pure | 1/3 | 1/3 | 0/0 | 1/1 |
| Cyclohexanone | 000108-94-1 | techn. pure | 2/4 | 1/3 | 0/0 | 1/1 |
| Cyclohexatriene see: Benzene | | | | | | |
| Cymene, p- | 000099-87-6 | | (3) | (2) | 0/0 | (1) |
| DDT (emulsion) | 000050-29-3 | | 1/1 | (2) | 0/0 | (1) |
| Decahydronaphthalene | 000091-17-8 | | 3/4 | 1/1 | 1/1 | 1/1 |
| Dehydroacetic acid | 000124-18-5 | | (3) | (1) | 0/0 | (1) |
| Dehydroacetic | 000520-45-6 | | (2) | (1) | 0/0 | 1/1 |
| Densodrin W | - | aqueous | 0/0 | 1/0 | 0/0 | 1/1 |
| Desiccator fat | - | | (2) | (1) | 0/0 | 1/1 |
| Desmodur 44 | 000101-68-8 | | (2) | (2) | 0/0 | (1) |
| Developer for fotos | - | | 1/2 | 1/1 | 0/0 | 1/1 |
| Developer liquids | - | | 1/1 | (1) | 0/0 | 1/1 |
| Dextrin | 009004-53-9 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Diacetone alcohol | 000123-42-2 | | 2/2 | (2) | 0/0 | (1) |
| Diamine see: Hydrazine | | | | | | |
| Diaminoethane | 000107-15-3 | techn. pure | 1/1 | 1/4 | 0/0 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Diammonium sulfide see: Ammonium sulfide | | | | | | |
| Diamyl phthalate | 000131-18-0 | 100% | (2) | (2) | 0/0 | (1) |
| Dibenzyl sebacate | ?? | | (3) | (2) | 0/0 | (1) |
| Dibromoethane, 1,2- see: Ethylene dibromiden (EDB) | | | | | | |
| Dibromotetrafluoroethane | 000124-73-2 | | (3) | 0/0 | 0/0 | (1) |
| Dibutyl phthalate, n- | 000084-74-2 | FR, 80 °C | 0 | 0 | 0 | (1) |
| Dibutyl phthalate, n- | 000084-74-2 | | 2/2 | 1/3 | 1/1 | 1/1 |
| Dibutyl sebacate | 000109-43-3 | techn. Pure | 1/0 | 1/0 | 0/0 | 1/1 |
| Dibutylamine | 000111-92-2 | | (2) | (2) | 0/0 | (1) |
| Dichloroacetic acid | 000079-43-6 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Dichloroacetic acid | 000079-43-6 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Dichlorobenzene, 1,2- | 000095-50-1 | | 3/4 | 1/1 | 1/3 | 1/1 |
| Dichlorobenzene, 1,4- | 000106-46-7 | | 3/4 | 1/1 | 1/3 | 1/0 |
| Dichlorodifluoromethane | 000075-71-8 | techn. pure | 4/4 | 3/4 | 0/0 | 1/0 |
| Dichlorodifluoromethane | 000075-71-8 | | 4/4 | 3/4 | 0/0 | 1/0 |
| Dichloroethane | - | | 3/4 | 1/1 | 1/1 | 1/1 |
| Dichloroethylene | - | techn. pure | 3/0 | 1/1 | 0/0 | 1/0 |
| Dichlorofluoromethane | 000075-43-4 | 100% | 4/4 | (3) | 0/0 | 1/0 |
| Dichlorohexafluorocyclobutane | 000356-18-3 | | (3) | 0/0 | 0/0 | (1) |
| Dichloroisopropyl ether | - | | (3) | (3) | 0/0 | (1) |
| Dichloropropane | - | 100% | 4/4 | (2) | 0/0 | (1) |
| Dichlorotetrafluoroethane | 000076-14-2 | | (3) | 0/0 | 0/0 | (1) |
| Dicyclohexyl phthalate | 000084-61-7 | techn. pure | 1/3 | 0/0 | 0/0 | (1) |
| Dicyclohexylamine (DCHA) | 000101-83-7 | | (2) | (2) | 0/0 | (1) |
| Diesel fuel | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Diesel fuel for | - | | 1/3 | 1/1 | 1/1 | 1/1 |
| Diesel oil | 068334-30-5 | 100% | 1/3 | 1/1 | 0/0 | 1/1 |
| Diethanolamine (DEA) | 000111-42-2 | 100% | 1/2 | 1/3 | 0/0 | 1/0 |
| Diethyl ethyl | 000060-29-7 | techn. pure | 4/4 | 1/4 | 1/2 | 1/1 |
| Diethyl ketone see: Pentanone, 3- | | | | | | |
| Diethyl malonate | 000105-53-3 | | 1/1 | (3) | 1/1 | (1) |
| Diethyl sebacate | 000110-40-7 | | (2) | (2) | 0/0 | (1) |

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|---------------------------------------|-------------|---------------|--|------------|-----------|------------|
| Diethyl succinate | 000123-25-1 | | (2) | (2) | 0/0 | (1) |
| Diethylamine | 000109-89-7 | techn. pure | 1/2 | 1/4 | 0/0 | 1/0 |
| Diethylbenzene | 000135-01-3 | | 4/4 | (2) | 1/2 | (1) |
| Diethylene glycol | 000111-46-6 | | 1/1 | (2) | 1/1 | 1/1 |
| Diethylene glycolether | - | | 1/1 | (2) | 1/1 | (1) |
| Difluoroethane | 000075-37-6 | | (3) | 0/0 | 0/0 | (1) |
| Difluoromethane | 000075-10-5 | | (3) | 0/0 | 0/0 | (1) |
| Diglycolic acid | 000110-99-6 | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Diglycolic acid | 000110-99-6 | 30% | 1/1 | 1/0 | 0/0 | 1/1 |
| Diisobutyl ketone | 000108-83-8 | techn. pure | 1/4 | 1/3 | 0/0 | 1/1 |
| Diisobutylene (DIB) | 025167-70-8 | | 1/2 | 0/0 | 0/0 | (1) |
| Diisopropyl ether | 000108-20-3 | techn. pure | 3/4 | 1/3 | 0/0 | 1/1 |
| Di-isopropyl ketone | 000565-80-0 | | (3) | (2) | 0/0 | (1) |
| Dimethyl ether | 000115-10-6 | gas | 4/4 | (3) | 0/0 | 1/0 |
| Dimethyl formamide (DMF) | 000068-12-2 | | 1/1 | 4/4 | 2/2 | 1/1 |
| Dimethyl ketone see: Acetone | | | | | | |
| Dimethyl phthalate (DMP) | 000131-11-3 | 100% | 2/3 | (2) | 0/0 | 1/1 |
| Dimethyl sulfoxide (DMSO) | 000067-68-5 | | 1/1 | (3) | 1/2 | (1) |
| Dimethylacetone see: Pentanone, 3- | | | | | | |
| Dimethylamine | 000124-40-3 | techn. pure | 1/3 | 3/0 | 0/0 | 1/1 |
| Dimethylaniline | - | | 4/4 | (2) | 0/0 | (1) |
| Dinitro ethylene glycol | 000628-96-6 | diluted | (2) | (3) | 0/0 | (1) |
| Dinonyl phthalate (DNP) | 000084-76-4 | techn. pure | 1/3 | (2) | 0/0 | 1/0 |
| Diocetyl adipate | 000103-23-1 | | 4/4 | (2) | 0/0 | 1/1 |
| Diocetyl phthalate (DOP) | 000117-81-7 | techn. pure | 4/4 | (2) | 0/0 | 1/0 |
| Diocetyl sebacate | 002432-87-3 | | (3) | (2) | 0/0 | (1) |
| Dioxane | 000123-91-1 | | 3/3 | 3/3 | 1/3 | 1/1 |
| Diphenyl ether | 000101-84-8 | | 4/4 | (2) | 0/0 | 1/0 |
| Diphenylamine | 000122-39-4 | | (3) | (2) | 0/0 | (1) |
| Diphyl | 008004-13-5 | | 4/4 | (2) | 0/0 | (1) |
| Dipropyl ketone | 000123-19-3 | | (3) | (2) | 0/0 | (1) |
| Dipropylene glycol | 025265-71-8 | | 1/1 | (2) | 1/1 | (1) |
| Dipropylene glycol (mono)methyl ether | - | | (2) | (2) | 0/0 | (1) |
| Disodium phosphate | 007558-79-4 | | 1/1 | 1/1 | 1/1 | 1/1 |

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|---|-------------|---------------|--|------------|-----------|------------|
| Dispersion of rubber | - | | 1/1 | (1) | 0/0 | (1) |
| Dithionous acid, disodium salt see: Sodium hydrosulfite | | | | | | |
| Divinylene oxide see: Furan | | | | | | |
| Dope, viscous | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Emulsifiers | - | | 1/1 | (1) | 0/0 | (1) |
| Emulsions for fotos | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Ephetin | - | 10% in water | 1/1 | 0/0 | 0/0 | 0/0 |
| Epichlorhydrin | 000106-89-8 | 100% | 2/2 | (3) | 0/0 | 1/0 |
| Epoxypropane, 1,2- see: Propylene oxid | | | | | | |
| Ethanal see: Acetaldehyde | | | | | | |
| Ethanedioic acid see: Oxalic acid | | | | | | |
| Ethanenitrile see: Acetonitrile | | | | | | |
| Ethanoyl chloride see: Acetyl chloride | | | | | | |
| Ethoxybenzene | 000103-73-1 | | (3) | (2) | 0/0 | (1) |
| Ethyl acetate | 000141-78-6 | 100% | 1/3 | 3/3 | 1/2 | 1/1 |
| Ethyl acrylate | 000140-88-5 | 100% | 4/4 | 3/0 | 0/0 | 1/0 |
| Ethyl alcohol | 000064-17-5 | 40% | 1/1 | 1/1 | 1/1 | 1/1 |
| Ethyl alcohol | 000064-17-5 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Ethyl alcohol | 000064-17-5 | 96% | 1/1 | 1/1 | 1/1 | 1/1 |
| Ethyl aldehyde see: Acetaldehyde | | | | | | |
| Ethyl benzoate | 000093-89-0 | | 2/3 | (3) | 1/2 | 1/0 |
| Ethyl butyrate | 000105-54-4 | | 2/4 | (2) | 1/2 | (1) |
| Ethyl chloride see: Monochloroethane | | | | | | |
| Ethyl chloroacetate | 000105-39-5 | techn. pure | 1/1 | 1/4 | 0/0 | 1/1 |
| Ethyl cyanoacetate | 000105-56-6 | | 1/1 | (3) | 1/1 | (1) |
| Ethyl formate | 000109-94-4 | | (2) | (3) | 0/0 | (1) |
| Ethyl lactate | 000097-64-3 | | 1/1 | 3/0 | 1/1 | (1) |
| Ethyl mercaptan | 000075-08-1 | | (2) | (2) | 0/0 | (1) |
| Ethyl phenyl ether see: Ethoxybenzene | | | | | | |
| Ethyl silicate | 000078-10-4 | | (2) | (2) | 0/0 | (1) |
| Ethylbenzene | 000100-41-4 | | 3/4 | 1/1 | 2/3 | 1/0 |
| Ethylene | 000074-85-1 | | (2) | (2) | 0/0 | (1) |

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|---|-------------|---------------|--|------------|-----------|------------|
| Ethylene dibromiden (EDB) | 000106-93-4 | | 4/4 | 1/2 | 0/0 | (1) |
| Ethylene glycol | 000107-21-1 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Ethylene glycol monobutyl ether | 000111-76-2 | 100% | 1/0 | 1/1 | 0/0 | 1/0 |
| Ethylene glycol monoethyl ether | 000110-80-5 | 100% | 2/4 | 1/1 | 0/0 | 1/0 |
| Ethylene glycol monoethyl ether | 000115-15-9 | | 1/2 | (2) | 1/2 | (1) |
| Ethylene glycol monomethyl ether | 000109-86-4 | 100% | 1/1 | 1/1 | 1/1 | 1/1 |
| Ethylene glycol monomethyl ether | 000111-10-4 | | 1/2 | (1) | 1/1 | (1) |
| Ethylene oxide | 000075-21-8 | | 3/3 | 1/1 | 1/1 | (1) |
| Ethylenediaminetetraacetic acid (EDTA) | 000060-00-4 | | 1/1 | (1) | 1/1 | 1/1 |
| Ethylhexanol-1 | 000104-76-7 | | 1/0 | (1) | 0/0 | 1/1 |
| Ethyne see: Acetylene | | | | | | |
| Eucalyptus oil | 008000-48-8 | | (2) | (2) | 0/0 | (1) |
| Exhaust gases, alkaline | - | | 1/1 | 1/4 | 0/0 | 1/1 |
| Exhaust gases, containing carbon dioxide | - | low | 1/1 | 1/1 | 1/1 | 1/1 |
| Exhaust gases, containing hydrochloric acid | - | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Exhaust gases, containing hydrogen fluoride | - | low | 1/1 | 1/1 | (2) | 1/1 |
| Exhaust gases, containing nitrose | - | low | 1/3 | 1/1 | (2) | 1/1 |
| Exhaust gases, containing sulfur dioxide | - | low | 1/1 | 1/1 | 0/0 | 1/1 |
| Exhaust gases, containing sulfur trioxide | - | low | 4/4 | 1/1 | (2) | 1/1 |
| Exhaust gases, containing sulfuric acid | - | all | 1/3 | 1/1 | (2) | 1/1 |
| Fat, animal | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Fat, mineral | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Fat, vegetable | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Fats, edible oil | - | | 3/0 | 1/1 | 0/0 | 1/1 |
| Fatty alcohol sulfonates | - | aqueous | 1/3 | 1/1 | 0/0 | 1/1 |
| Ferric chloride | 007705-08-0 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferric nitrate | 010421-48-4 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferric nitrate | 010421-48-4 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferric sulfate | 010028-22-5 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |

Legend

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() estimated value



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|---|-------------|---------------|--|------------|-----------|------------|
| Ferrous chloride | 007758-94-3 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferrous sulfate | 007720-78-7 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferrous sulfate | 007720-78-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Ferrous sulfate | 007720-78-7 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Fire-damp | - | | (2) | (1) | 0/0 | 1/1 |
| Fixer for fotos | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Fluid 101, 100 °C | - | | (3) | 0 | 0 | 0 |
| Fluorides | - | | 1/1 | (1) | 1/1 | (1) |
| Fluorine | 007782-41-4 | | 4/4 | 4/4 | 1/3 | 1/2 |
| Fluorobenzene | 000462-06-6 | | (3) | (2) | 0/0 | (1) |
| Fluorocarbons | - | | (3) | (3) | 1/1 | 1/1 |
| Formaldehyde solution | 000050-00-0 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Formaldehyde solution | 000050-00-0 | 30% | 1/1 | 1/1 | 0/0 | 1/1 |
| Formaldehyde solution | 000050-00-0 | 40% | 1/2 | 1/1 | 1/1 | 1/1 |
| Formamide | 000075-12-7 | techn. pure | 1/1 | (3) | 0/0 | 1/1 |
| Formic acid | 000064-18-6 | 50% | 1/2 | 1/1 | 1/1 | 1/1 |
| Formic acid | 000064-18-6 | 98-100 % | 1/3 | 1/1 | 1/1 | 1/1 |
| Formic acid | 000064-18-6 | 3% | 1/2 | 1/1 | 1/1 | 1/1 |
| Freon 11 see: Trichlorofluoromethane | | | | | | |
| Freon 11 see: Trichlorofluoromethane | | | | | | |
| Freon 112 see: Tetrachlorodifluoroethane | | | | | | |
| Freon 112 see: Tetrachlorodifluoroethane | | | | | | |
| Freon 113 see: Trichlorotrifluoroethane | | | | | | |
| Freon 113 see: Trichlorotrifluoroethane | | | | | | |
| Freon 114 see: Dichlorotetrafluoroethane | | | | | | |
| Freon 114 see: Dichlorotetrafluoroethane | | | | | | |
| Freon 114 B2 see: Dibromotetrafluoroethane | | | | | | |
| Freon 114 B2 see: Dibromotetrafluoroethane | | | | | | |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|---------|---------------|--|------------|-----------|------------|
| Freon 115 see: Chloropentafluoroethane | | | | | | |
| Freon 115 see: Chloropentafluoroethane | | | | | | |
| Freon 12 see: Dichlorodifluoromethane | | | | | | |
| Freon 12 see: Dichlorodifluoromethane | | | | | | |
| Freon 13 see: Chlorotrifluoromethane | | | | | | |
| Freon 13 see: Chlorotrifluoromethane | | | | | | |
| Freon 13 B1 see: Bromotrifluoromethane | | | | | | |
| Freon 13 B1 see: Bromotrifluoromethane | | | | | | |
| Freon 14 see: Carbon tetrafluoride | | | | | | |
| Freon 14 see: Carbon tetrafluoride | | | | | | |
| Freon 142b see: Chlorodifluoroethane | | | | | | |
| Freon 142b see: Chlorodifluoroethane | | | | | | |
| Freon 152a see: Difluoroethane | | | | | | |
| Freon 152a see: Difluoroethane | | | | | | |
| Freon 21 see: Dichlorofluoromethane | | | | | | |
| Freon 21 see: Dichlorofluoromethane | | | | | | |
| Freon 218 see: Octafluoropropane | | | | | | |
| Freon 218 see: Octafluoropropane | | | | | | |
| Freon 22 see: Chlorodifluoromethane | | | | | | |
| Freon 22 see: Chlorodifluoromethane | | | | | | |
| Freon 31 see: Chlorofluoromethane | | | | | | |
| Freon 31 see: Chlorofluoromethane | | | | | | |
| Freon 32 see: Difluoromethane | | | | | | |
| Freon 32 see: Difluoromethane | | | | | | |
| Freon C 318 see: Perfluorocyclobutane | | | | | | |
| Freon C 318 see: Perfluorocyclobutane | | | | | | |
| Freon C316 see: Dichlorohexafluorocyclobutane | | | | | | |
| Freon C316 see: Dichlorohexafluorocyclobutane | | | | | | |
| Frigen 12 see: Dichlorodifluoromethane | | | | | | |



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Frigen 12 see: Dichlorodifluoromethane | | | | | | |
| Frigen 21 see: Dichlorofluoromethane | | | | | | |
| Frigen 21 see: Dichlorofluoromethane | | | | | | |
| Frigen 22 see: Chlorodifluoromethane | | | | | | |
| Frigen 22 see: Chlorodifluoromethane | | | | | | |
| Fructose | 000057-48-7 | all | 1/1 | 1/1 | 0/0 | 1/1 |
| Fruit pulp | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Fruit wine | - | | 1/0 | 1/1 | 1/1 | (1) |
| Fuel + 20% ethyl alcohol | - | | (3) | (2) | 0/0 | (1) |
| Fuel + 20% methyl alcohol | - | | (3) | (2) | 0/0 | (1) |
| Fuel, Normal | - | | 3/4 | (2) | 0/0 | (1) |
| Fuel, piston engine (JP) | - | | 1/4 | (2) | 0/0 | (1) |
| Fuel, Super | - | | 3/4 | (2) | 0/0 | (1) |
| Furalmethanal, 2- see: Furfural | | | | | | |
| Furan | 000110-00-9 | | (3) | (3) | 0/0 | (1) |
| Furancarboxyaldehyde, 2- see: Furfural | | | | | | |
| Furfural | 000098-01-1 | | 4/4 | 1/2 | 0/0 | (1) |
| Furfuryl alcohol | 000098-00-0 | techn. pure | 1/3 | 1/3 | 0/0 | 1/1 |
| Gallic acid | 000149-91-7 | | 1/1 | 1/4 | 0/0 | 1/1 |
| Gas liquor | - | | 1/1 | (1) | 0/0 | (1) |
| Gas oil | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Gas, natural | - | | (2) | (1) | 0/0 | (1) |
| Gasoline | 008006-61-9 | | 3/4 | 1/1 | 0/0 | 1/1 |
| Gasoline | 086290-81-5 | | 3/4 | 1/1 | 1/1 | 1/1 |
| Gearbox EP (Hypoid), 110 °C | - | | (3) | 0 | 0 | (2) |
| Gelatin | 009000-70-8 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Genantin | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Ginger | - | ground | (2) | (1) | 0/0 | (1) |
| Glucose | 000050-99-7 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Glue (bone glue) | - | all | 1/1 | (1) | 0/0 | 1/1 |
| Glycerol | 000056-81-5 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Glycine | 000056-40-6 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Glycolic acid | 000079-14-1 | 37% | 1/1 | 1/3 | 0/0 | 1/1 |
| Glycolic acid | 000079-14-1 | 70% | 1/1 | (2) | 0/0 | 1/1 |



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Glystantin | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Gum tragacanth | 009000-65-1 | | 1/1 | 1/1 | 1/1 | 1/1 |
| HD-Oil motor oil, | - | | 1/3 | (2) | 0/0 | 1/1 |
| Helium | 007440-59-7 | | 1/0 | (1) | 1/1 | 1/1 |
| Henkel-P3-solution | - | | 1/1 | (1) | 0/0 | 1/1 |
| Heptane, normal | 000142-82-5 | | 2/4 | 1/1 | 1/1 | 1/1 |
| Heptanol, 1- | 000111-70-6 | | (2) | (1) | 0/0 | (1) |
| Heptanone | - | | (3) | (2) | 0/0 | (1) |
| Hexachlorbenzene (HCB) | 000118-74-1 | | (3) | 0/0 | 0/0 | (2) |
| Hexachlorocyclohexane (alpha-BHC) | 000319-84-6 | | (3) | 0/0 | 0/0 | (2) |
| Hexahydropyridine see: Piperidine | | | | | | |
| Hexaldehyde, n- | 000066-25-1 | | (2) | (2) | 0/0 | (1) |
| Hexamethylenetetramine | 000100-97-0 | | (2) | (2) | 0/0 | (1) |
| Hexane, n- | 000110-54-3 | | 2/3 | 1/1 | 1/1 | 1/1 |
| Hexanedioic see: Adipic acid | | | | | | |
| Hexanetriol | - | 100% | 1/1 | (1) | 0/0 | 1/1 |
| Hexene, 1- | 000592-41-6 | | (3) | (1) | 0/0 | (1) |
| Hexyl alcohol | 000111-27-3 | | 1/2 | (1) | 0/0 | 1/0 |
| Honey | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Hydraulic fluids, HFA | - | 50 °C | (3) | 0 | 0 | (1) |
| Hydraulic fluids, HFB | - | 50 °C | (3) | 0 | 0 | (1) |
| Hydraulic fluids, HFC | - | 60 °C | (3) | 0 | 0 | (1) |
| Hydraulic fluids, HFD-R | - | 100 °C | (3) | 0 | 0 | 0 |
| Hydraulic fluids, HFD-S | - | 100 °C | (3) | 0 | 0 | 0 |
| Hydraulic oil (based on mineral oil) | - | | 1/3 | 0/0 | 0/0 | (1) |
| Hydrazine | 000302-01-2 | 10% | 1/1 | 1/3 | 0/0 | 1/0 |
| Hydrazine hydrate | 010217-52-4 | aqueous | 1/1 | 1/3 | 0/0 | 1/0 |
| Hydrocyanic acid, sodium salt see: Sodium cyanite | | | | | | |
| Hydrogen | 001333-74-0 | techn. pure | 1/0 | 1/0 | (1) | 1/1 |
| Hydrogen bromide | 010035-10-6 | 40% | 1/1 | 1/1 | 0/0 | 1/1 |
| Hydrogen bromide | 010035-10-6 | 50% | 1/2 | 1/1 | 1/1 | 1/1 |
| Hydrogen bromide | 010035-10-6 | diluted | 1/1 | 1/1 | 0/0 | 1/1 |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Hydrogen carboxylic acid see: Formic acid | | | | | | |
| Hydrogen chloride | 007647-01-0 | 1-5 % | 1/1 | 1/1 | 1/1 | 1/1 |
| Hydrogen chloride | 007647-01-0 | 35% | 1/2 | 1/1 | 1/1 | 1/1 |
| Hydrogen chloride | 007647-01-0 | concentrated | 1/2 | 1/1 | 1/1 | 1/1 |
| Hydrogen chloride | 007647-01-0 | 20% | 1/1 | 1/1 | 1/1 | 1/1 |
| Hydrogen chloride (gas) | 007647-01-0 | anhydrous | 1/1 | 1/1 | 0/0 | 1/1 |
| Hydrogen cyanide | 000074-90-8 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Hydrogen cyanide | 000074-90-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Hydrogen fluoride | 007664-39-3 | anhydrous | (2) | 0/0 | 0/0 | 1/0 |
| Hydrogen fluoride | 007664-39-3 | 4% | 1/2 | 1/1 | 1/1 | 1/1 |
| Hydrogen fluoride | 007664-39-3 | 50% | 1/1 | 1/1 | 1/1 | 1/1 |
| Hydrogen fluoride | 007664-39-3 | 70% | 1/3 | 1/1 | 0/0 | 1/1 |
| Hydrogen fluoride | 007664-39-3 | 100% | (2) | 0/0 | 0/0 | 1/0 |
| Hydrogen peroxide | 007722-84-1 | 30% | 1/3 | 1/1 | 1/1 | 1/1 |
| Hydrogen peroxide | 007722-84-1 | 100% | 4/4 | (2) | 0/0 | (1) |
| Hydrogen peroxide | 007722-84-1 | 90% | 1/2 | 1/0 | 1/1 | 1/1 |
| Hydrogen peroxide | 007722-84-1 | 3% | 1/1 | 1/1 | 1/1 | 1/1 |
| Hydrogen sulfide | 007783-06-4 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Hydroquinone | 000123-31-9 | saturated | 1/0 | (3) | 0/0 | 1/1 |
| Hydroxylaluminium di(acetate) | 000139-12-8 | aqueous | 1/1 | (1) | 1/1 | 1/1 |
| Hydroxylamine disulfate | 010039-54-0 | 12% | 1/1 | (2) | 0/0 | (1) |
| Hydroxylamine disulfate | 010039-54-0 | all | 1/1 | (2) | 0/0 | (1) |
| Hydroxymethyl furfural, 5- (HMF) | 000067-47-0 | | (2) | (3) | 0/0 | (1) |
| Imidole see: Pyrrole | | | | | | |
| Iodine pentafluoride | 007783-66-6 | | (3) | (3) | 0/0 | (2) |
| Iodine, tincture of I ₂ | 007553-56-2 | | 1/2 | 1/1 | 1/1 | 1/1 |
| Iodoform | 000075-47-8 | 100% | 3/0 | (2) | 0/0 | 1/0 |
| Isoamyl alcohol | 000123-51-3 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Isobutanol | 000078-83-1 | | 1/1 | 1/1 | 1/1 | (1) |
| Isobutyl acetate | 000110-19-0 | | (3) | (2) | 0/0 | 1/0 |
| Isobutyl alcohol see: Isobutanol | | | | | | |
| Isobutyltrimethylmethane see Trimethylpentane, 2,2,4- | | | | | | |

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Chemical Resistance

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|--|-------------|---------------|--|------------|-----------|------------|
| ISO-Fluid liquid | - | liquid | 3/4 | (1) | 0/0 | 1/1 |
| ISO-Fluid A | - | - | (3) | (2) | 0/0 | (1) |
| ISO-Fluid B | - | - | (3) | (2) | 0/0 | (1) |
| ISO-Fluid C | - | - | (3) | (2) | 0/0 | (1) |
| ISO-Fluid D | - | - | (3) | (2) | 0/0 | (1) |
| Iso-octane see: Trimethylpentane, 2,2,4- | | | | | | |
| Isopropyl acetate | 000108-21-4 | | 2/3 | (3) | 1/2 | 1/1 |
| Isopropyl alcohol | 000067-63-0 | techn. pure | 1/1 | 1/1 | 1/1 | 1/1 |
| Isopropyl carbinol see: Isobutanol | | | | | | |
| Isopropyl chloride | 000075-29-6 | | (3) | (2) | 0/0 | (1) |
| Jam | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Juices | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Kapsolat see: Ethylene glycol monomethyl oleate | | | | | | |
| Kerosene | 008008-20-6 | | 3/3 | 1/1 | 2/3 | 1/1 |
| Kerosene | - | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Lactames | - | | (2) | 0/0 | 0/0 | (1) |
| Lactic acid | 000050-21-5 | 3% | 1/2 | 1/1 | 1/1 | 1/1 |
| Lactic acid | 000050-21-5 | 80% | 1/1 | 1/3 | 1/2 | 1/1 |
| Lactic acid | 000050-21-5 | 85% | 1/2 | 1/3 | 1/2 | 1/1 |
| Lactose | 000063-42-3 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Lanolin | 008006-54-0 | techn. pure | 3/3 | 1/1 | 0/0 | 1/1 |
| Lard | - | | (2) | 1/1 | 0/0 | 1/1 |
| Latex | - | | 1/1 | (1) | 0/0 | 1/1 |
| Laurel | - | ground | (2) | (1) | 0/0 | (1) |
| Lauryl alcohol | 000112-53-8 | 100% | 1/1 | 1/1 | 0/0 | 1/1 |
| Lauryl chloride | 000112-52-7 | 100% | (3) | (1) | 0/0 | 1/0 |
| Lavender oil | 008000-28-0 | | (3) | (2) | 0/0 | (1) |
| Lead acetate | 000301-04-2 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Lead acetate | 000301-04-2 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Lead nitrate | 010099-74-8 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Lead nitrate | 010099-74-8 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Lead stearate | 001072-35-1 | | 1/1 | (1) | 1/1 | 1/1 |

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|--------------------------------|-------------|---------------|--|------------|-----------|------------|
| Lead sulfate | 007446-14-2 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Lead tetraethyl (TEL) | 000078-00-2 | techn. pure | 2/4 | 1/1 | 0/0 | 1/0 |
| Lemon juice | - | - | 1/1 | (1) | 0/0 | 1/1 |
| Lemon oil | 084929-31-7 | | (3) | (2) | 0/0 | (1) |
| Lemongrass oil | 008007-02-1 | | (3) | (3) | 0/0 | (1) |
| Ligroin | 008032-32-4 | | (3) | 1/1 | 0/0 | 1/1 |
| Limonene, DL- | 000138-86-3 | | (3) | (1) | 0/0 | (1) |
| Linseed oil | 008001-26-1 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Liqueurs | - | | 1/0 | 1/1 | 0/0 | 1/1 |
| Lithium bromide | 007550-35-8 | | 1/1 | (1) | 0/0 | 1/1 |
| Lube oils | - | | 3/0 | 1/1 | 0/0 | 1/1 |
| Lysol | - | | 1/3 | (2) | 0/0 | (1) |
| Machine oil | - | 100% | 1/3 | 1/1 | 0/0 | 1/1 |
| Magnesium bromide | 007789-48-2 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Magnesium carbonate | 000546-93-0 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Magnesium chloride | 007786-30-3 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Magnesium chlorite | ?? | | 0/0 | 0/0 | 0/0 | 1/1 |
| Magnesium hydroxide | 001309-42-8 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Magnesium iodide | 010377-58-9 | | 1/1 | (1) | 1/1 | 1/1 |
| Magnesium nitrate | 010377-60-3 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Magnesiumsulfat | 007487-88-9 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Maize-germ oil | 008001-30-7 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Maleic acid | 000110-16-7 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Maleic acid | 000110-16-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Margarine | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Menthol | 000089-78-1 | solid | 1/3 | 1/1 | 0/0 | 1/1 |
| Mercuric chloride | 007487-94-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Mercuric cyanide | 000592-04-1 | saturated | 1/1 | 1/1 | (1) | 1/1 |
| Mercuric nitrate | 010045-94-0 | saturated | 1/1 | 1/1 | (1) | 1/1 |
| Mercury | 007439-97-6 | pure | 1/1 | 1/1 | 1/1 | 1/1 |
| Mesityl oxide | 000141-79-7 | | (3) | 0/0 | 0/0 | 1/1 |
| Methacetone see: Pentanone, 3- | | | | | | |
| Methacrylic acid | 000079-41-4 | | 1/1 | (3) | 0/0 | 1/1 |
| Methane | 000074-82-8 | techn. pure | 1/0 | 1/1 | 0/0 | 1/1 |

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|---|-------------|---------------|--|------------|-----------|------------|
| Methanoic acid see: Formic acid | | | | | | |
| Methenamine see: Hexamethylenetetramine | | | | | | |
| Methoxy butanol | - | 100% | 1/3 | (2) | 0/0 | 1/1 |
| Methoxyethane | 000540-67-0 | 100% | (3) | (2) | 0/0 | 1/0 |
| Methoxyethyl oleate see: Ethylene glycol monomethyl ether oleate | | | | | | |
| Methyl acetate | 000079-20-9 | techn. pure | 1/3 | 1/4 | 0/0 | 1/1 |
| Methyl acrylate | 000096-33-3 | | (2) | (3) | 0/0 | (1) |
| Methyl alcohol | 000067-56-1 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Methyl amine | 000074-89-5 | 32% | 1/0 | 3/0 | 0/0 | 1/0 |
| Methyl benzene | 000108-88-3 | | 3/4 | 1/1 | 1/1 | 1/0 |
| Methyl bromide | 000074-83-9 | techn. pure | 4/4 | 1/1 | 0/0 | 1/0 |
| Methyl butanol | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Methyl butyl ketone | 000591-78-6 | | (3) | (3) | 0/0 | (1) |
| Methyl cellosolveat oleate see: Ethylene glycol monomethyl ether oleate | | | | | | |
| Methyl chloride | 000074-87-3 | techn. pure | 4/4 | 1/1 | 0/0 | 1/0 |
| Methyl cyanide see: Acetonitrile | | | | | | |
| Methyl dichloroacetate | 000116-54-1 | | 1/1 | 3/3 | 0/0 | 1/1 |
| Methyl ethyl carbinol see: Butyl alcohol, sec- | | | | | | |
| Methyl ethyl ether see: Methoxyethane | | | | | | |
| Methyl ethyl ketone (MEK) | 000078-93-3 | | 1/3 | 3/4 | 2/3 | 1/1 |
| Methyl ethylene oxide see: Propylene oxide | | | | | | |
| Methyl formate | 000107-31-3 | | (2) | (3) | 0/0 | (1) |
| Methyl isobutyl ketone | 000108-10-1 | | 2/4 | (3) | 2/3 | 1/1 |
| Methyl isopropyl ketone | 000563-80-4 | | (3) | (3) | 0/0 | (1) |
| Methyl ketone see: Acetone | | | | | | |
| Methyl methacrylate | 000080-62-6 | 100% | (2) | (3) | 0/0 | 1/1 |
| Methyl propyl ketone | 000107-87-9 | | 2/3 | (2) | 1/2 | (1) |
| Methyl salicylate | 000119-36-8 | | 1/0 | (3) | 0/0 | (1) |

Legend

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() estimated value



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Methyl sulfuric acid | 000077-78-1 | 50% | 2/4 | (2) | 0/0 | 1/1 |
| Methyl sulfuric acid | 000077-78-1 | aqueous | (2) | (2) | 0/0 | 1/1 |
| Methyl-1-propanol, 2- see: Isobutanol | | | | | | |
| Methylchloroacetate | 000096-34-4 | techn. pure | 1/1 | 1/4 | 0/0 | (1) |
| Methylcyclohexane | 000108-87-2 | | 3/0 | (1) | 0/0 | 1/0 |
| Methylcyclopentane | 000096-37-7 | | (3) | (1) | 0/0 | (1) |
| Methylene chloride | 000075-09-2 | | 3/4 | 1/3 | 2/2 | 1/1 |
| Methylglycol acetate | 000110-49-6 | | (2) | (2) | 0/0 | (1) |
| Methyloxirane see: Propylene oxid | | | | | | |
| Methylpropyl acetate, 2- see: Isobutyl acetate | | | | | | |
| Milk | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Mineral oil | 008012-95-1 | | 1/3 | 1/1 | 1/1 | 1/1 |
| Mineral water | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Molasses | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Molasses wort | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Monochlorobenzene (MCB) see: Chlorobenzene | | | | | | |
| Monochloroethane | 000075-00-3 | | 3/4 | 1/1 | 1/1 | 1/0 |
| Morpholine | 000110-91-8 | techn. pure | 1/1 | 1/3 | 0/0 | 1/1 |
| Motor oil | - | | 1/3 | 1/1 | 0/0 | (1) |
| Mowilith D | - | | 1/0 | 1/0 | 0/0 | 1/1 |
| Muscat | - | ground | (2) | (2) | 0/0 | (1) |
| Mustard | - | | 1/1 | (1) | 0/0 | (1) |
| Naphtha | 008032-32-4 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Naphthalene | 000091-20-3 | 100% | 1/3 | 1/3 | 0/0 | 1/1 |
| Naphthalene (in alcohol) | - | | 1/3 | (2) | 0/0 | 1/1 |
| Neon | 007440-01-9 | | (1) | 1/1 | 1/1 | 1/1 |
| Nickel acetate | 000373-02-4 | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Nickel dichloride | 007718-54-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Nickel dichloride | 007718-54-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Nickel sulfate | 007786-81-4 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Nickel sulfate | 007786-81-4 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Nickelous nitrate | 013138-45-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Nicotine | 000054-11-5 | | 1/0 | (2) | 0/0 | (1) |
| Nicotinic acid | 000059-67-6 | diluted | 1/0 | (2) | 0/0 | (1) |
| Nitric acid | 007697-37-2 | 1-10 % | 1/1 | 1/1 | 1/1 | 1/1 |
| Nitric acid | 007697-37-2 | 50% | 3/4 | 1/1 | 1/1 | 1/1 |
| Nitric acid | 007697-37-2 | 66% | 4/4 | 1/1 | 1/1 | 1/1 |
| Nitric acid | 007697-37-2 | 100% | 4/4 | 4/4 | 0/0 | 1/1 |
| Nitric acid | 007697-37-2 | 70% | 4/4 | 1/1 | 1/1 | 1/1 |
| Nitric acid see: Ammonium nitrate | | | | | | |
| Nitric acid, magnesium salt see: Magnesium nitrate | | | | | | |
| Nitric acid, potassium salt see: Potassium nitrate | | | | | | |
| Nitro benzoic acid | - | | 1/0 | (2) | 0/0 | (1) |
| Nitro reducer | - | | (3) | (3) | 0/0 | (1) |
| Nitrobenzene | 000098-95-3 | | 2/4 | 1/1 | 1/2 | 1/1 |
| Nitroethane | 000079-24-3 | | (2) | (3) | 0/0 | (1) |
| Nitrogen | 007727-37-9 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Nitrogen hydride see: Hydrazine | | | | | | |
| Nitrogen tetroxide | 010544-72-6 | | 1/0 | (2) | 0/0 | (1) |
| Nitroglycerine | 000055-63-0 | diluted | (2) | (3) | 0/0 | 1/0 |
| Nitrohydrochloric acid | + | | 4/4 | 3/0 | 1/1 | 1/1 |
| Nitropropane | - | | (2) | (3) | 0/0 | (1) |
| Nitrose gases | - | diluted | 1/4 | 1/1 | 0/0 | 1/1 |
| Nitrotoluene | 001321-12-6 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Nitrous acid, sodium salt see: Sodium nitrite | | | | | | |
| Nitrous oxide | 010024-97-2 | | (2) | (1) | 0/0 | (1) |
| Nonanol see: Nonyl alcohol | | | | | | |
| Nonyl alcohol | 000143-08-8 | 100% | 1/1 | (1) | 0/0 | (1) |
| Nutmeg oil | 008008-45-5 | | (2) | (2) | 0/0 | (1) |
| Octafluoropropane | 000076-19-7 | | (3) | 0/0 | 0/0 | (1) |
| Octane | 000111-65-9 | | 1/1 | (1) | 1/1 | (1) |
| Octyl carbinol see: Nonyl alcohol | | | | | | |
| Octyl cresol | - | 100% | 3/0 | (2) | 0/0 | (1) |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|---------------------------------------|-------------|----------------------|--|------------|-----------|------------|
| Oils and fats, vegetable | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Oils, essential | - | | 3/4 | (3) | 0/0 | (1) |
| Oleic acid | 000112-80-1 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Oleic acid methyl ester | 000112-62-9 | - | (2) | (1) | 0/0 | (1) |
| Oleum | 008014-95-7 | 10 % SO ₃ | 4/4 | 4/4 | 0/0 | 1/0 |
| Oleum steams | - | low | 4/4 | 1/0 | 0/0 | (1) |
| Olive oil | 008001-25-0 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Orange juice | - | | 1/1 | (1) | 1/1 | 1/1 |
| Orange oil | 008028-48-6 | | (3) | (3) | 0/0 | 1/1 |
| Orange oil, bitter | 068916-04-1 | | 2/3 | (2) | 1/1 | (1) |
| Oxacyclopentadiene see: Furan | | | | | | |
| Oxalic acid | 000144-62-7 | aqueous | 1/1 | (2) | 1/1 | 1/1 |
| Oxalic acid | 000144-62-7 | | 1/1 | 1/3 | 1/1 | 1/1 |
| Oxygen | 007782-44-7 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Ozone | 010028-15-6 | | 3/4 | 1/3 | 1/1 | (1) |
| Ozone-air-mixture | - | | 3/4 | (2) | 1/1 | (1) |
| Palm kernel oil | 008023-79-8 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Palm oil | 008002-75-3 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Palmitic acid | 000057-10-3 | techn. Pure | 3/4 | 1/1 | 0/0 | 1/1 |
| Paraffin wax | 008002-74-2 | melted | (2) | 0 | 0 | 1 |
| Paraffin-emulsion | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Paraffins | - | 100% | 1/1 | (1) | 0/0 | 1/1 |
| Paraformaldehyde | 030525-89-4 | | 1/0 | (2) | 0/0 | (1) |
| Peanut oil | 008002-03-7 | | 1/1 | (1) | 0/0 | 1/1 |
| Pectin | 009000-69-5 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Pectin | 009000-69-5 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Pelargonic alcohol see: Nonyl alcohol | | | | | | |
| Penicillin | - | | (2) | (1) | (1) | (1) |
| Pentachlorbiphenyl | - | | 4/4 | (2) | 0/0 | (1) |
| Pentamethyleneimine see: Piperidine | | | | | | |
| Pentane, normal | 000109-66-0 | | (3) | (1) | 0/0 | (1) |
| Pentanethiol, 1- | 000110-66-7 | | (2) | (2) | 0/0 | (1) |
| Pentanol, 1- | 000071-41-0 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Pentanone, 3- | 000096-22-0 | | 2/2 | (3) | 2/3 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Pentyl alcohol, n- see: Pentanol, 1- | | | | | | |
| Pepper | - | ground | (2) | (1) | 0/0 | (1) |
| Perchloric acid | 007601-90-3 | 70% | 4/4 | 1/1 | 1/2 | 1/1 |
| Perchloric acid | 007601-90-3 | 20% | 1/3 | 1/1 | 0/0 | 1/1 |
| Perchlorobutadiene | 000087-68-3 | | (3) | (3) | 0/0 | (2) |
| Perchloroethylene see: Tetrachloroethylene | | | | | | |
| Perfluorocyclobutane | 000115-25-3 | | (3) | 0/0 | 0/0 | (1) |
| Perfumes | - | | 1/0 | (1) | 0/0 | (1) |
| Permanganic acid, potassium salt see Potassium permanganate | | | | | | |
| Petroleum | 008002-05-9 | | 1/0 | 1/1 | 0/0 | 1/0 |
| Petroleum ether | 008032-32-4 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Phenacetin | 000062-44-2 | | (2) | (1) | 0/0 | (1) |
| Phenethyl alcohol | 000060-12-8 | | 1/0 | (2) | 0/0 | (1) |
| Phenetole see: Ethoxybenzene | | | | | | |
| Phenol | 000108-95-2 | 10% | 1/1 | 1/1 | 0/0 | 1/1 |
| Phenol | 000108-95-2 | 100% | 1/2 | 1/1 | 1/1 | 1/1 |
| Phenolic resin mass | - | | 1/1 | (1) | 0/0 | (1) |
| Phenyl chloride see: Chlorobenzene | | | | | | |
| Phenyl methyl ketone see: Acetophenone | | | | | | |
| Phenylethanone, 1- see: Acetophenone | | | | | | |
| Phenylhydrazine | 000100-63-0 | techn. pure | 3/4 | 1/1 | 0/0 | 1/1 |
| Phenylhydrazine hydrochloride | 000059-88-1 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Phenylsulfonate | 070528-83-5 | | 1/1 | 0/0 | 0/0 | (1) |
| Phosgene | 000075-44-5 | liquid | 0/0 | (3) | 0/0 | 1/1 |
| Phosgene | 000075-44-5 | gaseous | 3/4 | (3) | 0/0 | 1/1 |
| Phosphates | - | aqueous | 3/4 | (1) | 0/0 | 1/1 |
| Phosphine | 007803-51-2 | concentrated | (3) | 1/1 | 0/0 | 1/0 |
| Phosphoric acid | 007664-38-2 | 30% | 1/1 | 1/1 | 0/0 | 1/1 |
| Phosphoric acid | 007664-38-2 | 85% | 1/2 | 1/1 | 1/1 | 1/1 |
| Phosphoric acid | 007664-38-2 | 1-5 % | 1/1 | 1/1 | 1/1 | 1/1 |

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|---|-------------|---------------|--|------------|-----------|------------|
| Phosphoric acid | 007664-38-2 | 20% | 1/1 | 1/1 | 0/0 | 1/1 |
| Phosphorus oxychloride | 010025-87-3 | 100% | 1/3 | (2) | 0/0 | 1/1 |
| Phosphorus oxychloride | 010025-87-3 | | 1/3 | (2) | 0/0 | 1/1 |
| Phosphorus pentachloride | 010026-13-8 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Phosphorus pentoxide | 001314-56-3 | techn. pure | 1/0 | 1/1 | 0/0 | 1/0 |
| Phosphorus trichloride | 007719-12-2 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Phthalic acid | 000088-99-3 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Phthalsäuremonoamylester | ?? | | (2) | (2) | 0/0 | (1) |
| Picric acid | 000088-89-1 | 1 % aqueous | 1/1 | 1/1 | 0/0 | 1/0 |
| Pine oil | 008023-99-2 | | 1/1 | (3) | 0/0 | (1) |
| Pineapple juice | - | | 1/1 | (1) | 1/1 | 1/1 |
| Pink | ground | | (2) | (2) | 0/0 | 1/1 |
| Piperidine | 000110-89-4 | | (2) | (2) | 0/0 | (1) |
| Plasticiser | - | | 1/3 | 0/0 | 0/0 | (1) |
| Polish remover | - | ? | 1/3 | (2) | 0/0 | (1) |
| Polyester resins | - | | 3/0 | (2) | 0/0 | (1) |
| Polyethylene glycol | 025322-68-3 | 100% | 1/1 | (2) | 0/0 | (1) |
| Polyoxymethylene see: Paraformaldehyde | | | | | | |
| Polyran M25 | - | 80 °C | 0 | 0 | 0 | 0 |
| Polyran M400 | - | 80 °C | 0 | 0 | 0 | 0 |
| Polysolvan O | 007397-62-8 | 100% | (2) | 0/0 | 0/0 | (1) |
| Potassium acetate | 000127-08-2 | aqueous | 1/1 | 1/1 | 1/1 | 1/0 |
| Potassium bisulfate | 007646-93-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium bisulfate | 007646-93-7 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium bitartrate | 000868-14-4 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium borate | 012228-88-5 | 10% | 1/1 | 1/0 | 1/1 | 1/1 |
| Potassium borate | 012228-88-5 | aqueous | 1/1 | 1/0 | 1/1 | 1/1 |
| Potassium bromate | 007758-01-2 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium bromate | 007758-01-2 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium bromide | 007758-02-3 | each | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium carbonate | 000584-08-7 | saturated | 1/1 | 1/3 | 0/0 | 1/1 |
| Potassium carbonate | 000584-08-7 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium chlorate | 003811-04-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Potassium chlorate | 003811-04-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium chloride | 007447-40-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium chromate | 007789-00-6 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium chromate | 007789-00-6 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium cyanide | 000151-50-8 | saturated | 1/1 | 1/3 | 0/0 | 1/1 |
| Potassium cyanide | 000151-50-8 | aqueous | 1/1 | 1/3 | 0/0 | 1/1 |
| Potassium dichromate | 007778-50-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium dichromate | 007778-50-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium ferricyanide | 013746-66-2 | each | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium ferrocyanide | 014459-95-1 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium ferrocyanide | 014459-95-1 | diluted | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium fluoride | 007789-23-3 | | 1/1 | (1) | 1/1 | 1/1 |
| Potassium hydrogen carbonate | 000298-14-6 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium hydroxide | 001310-58-3 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium hydroxide | 001310-58-3 | 30% | 1/1 | (2) | 0/0 | 1/1 |
| Potassium hydroxide | 001310-58-3 | 50% | 1/1 | 3/3 | 1/1 | 1/1 |
| Potassium hydroxide | 001310-58-3 | concentrated | 1/1 | 3/3 | 1/1 | 1/1 |
| Potassium hydroxide | 001310-58-3 | 1% | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium hypochlorite | 007778-66-7 | diluted | 1/3 | 1/1 | 0/0 | 1/1 |
| Potassium iodate | 007758-05-6 | | 1/1 | 1/1 | 0/0 | 1/0 |
| Potassium iodide | 007681-11-0 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium iodide | 007681-11-0 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium lye see: Potassium hydroxide | | | | | | |
| Potassium nitrate | 007757-79-1 | 50% | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium nitrate | 007757-79-1 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium perchlorate | 007778-74-7 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium perchlorate | 007778-74-7 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium permanganate | 007722-64-7 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium permanganate | 007722-64-7 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium persulfate | 007727-21-1 | all | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium sulfate | 007778-80-5 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Potassium sulfide | 001312-73-8 | diluted | 1/1 | 1/1 | 0/0 | 1/1 |
| Potassium sulfite | 010117-38-1 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Potassium thiosulfate | 010233-00-8 | saturated | 1/1 | (1) | 1/1 | 1/1 |
| Precipitated silica | 001343-98-2 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Prontosil | - | | (2) | (2) | 0/0 | (1) |
| Propane | 000074-98-6 | liquid | 1/0 | 1/1 | 0/0 | 1/1 |
| Propane | 000074-98-6 | gaseous | 2/4 | 1/1 | 1/1 | 1/1 |
| Propanetriol, 1,2,3- see: Glycerol | | | | | | |
| Propanone, 2- see: Acetone | | | | | | |
| Propargyl alcohol | 000107-19-7 | 7% | 1/1 | 1/3 | 0/0 | 1/1 |
| Propenenitrile, 2- see: Acrylonitrile | | | | | | |
| Propenyl alcohol see: Allyl alcohol | | | | | | |
| Propionic acid | 000079-09-4 | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Propionic acid | 000079-09-4 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Propyl acetate, normal | 000109-60-4 | | (2) | (2) | 0/0 | (1) |
| Propyl alcohol | 000071-23-8 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Propyl carbinol see: Butyl alcohol, normal | | | | | | |
| Propyl nitrate | 000627-13-4 | | (2) | (3) | 0/0 | (1) |
| Propylamine, n- | 000107-10-8 | | (2) | (2) | 0/0 | (1) |
| Propylene | 000115-07-1 | | 1/1 | (1) | 0/0 | 1/1 |
| Propylene glycol | 000057-55-6 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Propylene oxid | 000075-56-9 | | 1/2 | 1/4 | 3/4 | 1/0 |
| Pydraul C (312, 540) | - | | 0/0 | 0/0 | 0/0 | (1) |
| Pydraul E (29, 30, 50, 65, 90, 11) | - | | 0/0 | 0/0 | 0/0 | (1) |
| Pyridine | 000110-86-1 | | 3/3 | 1/3 | 1/1 | 1/1 |
| Pyrogallic acid | 000087-66-1 | | 1/0 | 1/1 | 0/0 | (1) |
| Pyroligneous oil | 008001-20-5 | | (2) | (1) | 0/0 | (1) |
| Pyrrole | 000109-97-7 | | (3) | (3) | 0/0 | (1) |
| Quinine | 000130-95-0 | | 1/1 | (1) | 1/1 | 1/1 |
| Quinol see: Hydroquinone | | | | | | |
| Ramasit | - | | 0/0 | 1/1 | 0/0 | (1) |
| Resorcinol | 000108-46-3 | 5% | 1/1 | (3) | 1/3 | (1) |
| Resorcinol | 000108-46-3 | saturated | 1/1 | (3) | 1/1 | (1) |
| Roaster off-gas | - | all | 1/1 | (2) | 0/0 | (1) |
| Rose oil | 008007-01-0 | | (2) | (2) | 0/0 | (1) |

Legend

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0 no data available
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4 not resistant

K no general information available
L danger of pitting or stress-cracking corrosion
() estimated value



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|----------------------------------|-------------|---------------|--|------------|-----------|------------|
| Rum ether | 008030-89-5 | | (2) | (3) | 0/0 | (1) |
| Sagrotan | - | liquid | 1/3 | (2) | 0/0 | (1) |
| Salicyl acid | 000069-72-7 | saturated | 1/1 | 1/1 | 1/1 | 1/0 |
| Salicyl acid | 000069-72-7 | powder | 1/1 | 1/1 | 1/1 | 1/0 |
| Salicylaldehyde | 000090-02-8 | | 1/2 | (3) | 1/4 | (1) |
| Salt spring | 007647-14-5 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Salt water, sea water | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Saltpeter see: Potassium nitrate | | | | | | |
| Saturated steam condensate | - | | 1/1 | (2) | 0/0 | 1/1 |
| Sea | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Silicofluoric acid | 016961-83-4 | 32% | 1/1 | 1/1 | 1/1 | 1/1 |
| Silicone greases | - | | 1/1 | (1) | 0/0 | (1) |
| Silicone oil | - | | 1/1 | (1) | 0/0 | 1/1 |
| Silver acetate | 000563-63-3 | | 1/1 | (1) | 1/1 | (1) |
| Silver cyanide | 000506-64-9 | | 1/1 | (1) | 0/0 | (1) |
| Silver nitrate | 007761-88-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Silver nitrate | 007761-88-8 | C | 1/2 | 1/1 | 1/1 | 1/1 |
| Skydrol 500 | - | - | 0/0 | 0/0 | 0/0 | (1) |
| Skydrol 7000 | - | | 0/0 | 0/0 | 0/0 | (1) |
| Soaps, liquid | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Soapy solution | - | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium acetate | 000127-09-3 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium benzoate | 000532-32-1 | 36% | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium benzoate | 000532-32-1 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium benzoate | 000532-32-1 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium bicarbonate | 000144-55-8 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium bisulfate | 007681-38-1 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium bisulfate | 007681-38-1 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium bisulfite | 007631-90-5 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium borate | 001303-96-4 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium borate | 001303-96-4 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium bromate | 007789-38-0 | each | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium bromide | 007647-15-6 | each | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium carbonate | 000497-19-8 | saturated | 1/1 | 1/3 | 1/1 | 1/1 |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|--|-------------|---------------|--|------------|-----------|------------|
| Sodium carbonate | 000497-19-8 | aqueous | 1/1 | 1/3 | 1/1 | 1/1 |
| Sodium carbonate | 000497-19-8 | | 1/1 | 1/3 | 1/1 | 1/1 |
| Sodium chlorate | 007775-09-9 | each | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium chlorate | 007775-09-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium chloride | 007647-14-5 | each | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium chloride | 007647-14-5 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium chlorite | 007758-19-2 | diluted | 1/3 | 1/1 | 0/0 | 1/1 |
| Sodium chromate | 007775-11-3 | diluted | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium cyanide | 000143-33-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium cyanide | 000143-33-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium dichromate | 010588-01-9 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium dithionite see: Sodium hydrosulfite | | | | | | |
| Sodium dodecylbenzene sulfonate | 025155-30-0 | | 1/1 | (1) | 0/0 | 1/1 |
| Sodium ferrocyanide | 013601-19-9 | | 1/1 | (1) | 1/1 | 1/1 |
| Sodium fluoride | 007681-49-4 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium hydrosulfite | 007775-14-6 | 10% | 1/1 | 1/3 | 0/0 | 1/1 |
| Sodium hydrosulfite | 007775-14-6 | | 1/1 | 1/3 | 0/0 | 1/1 |
| Sodium hydroxide | 001310-73-2 | concentrated | 1/1 | (2) | 0/0 | 1/1 |
| Sodium hydroxide | 001310-73-2 | 30% | 1/1 | (2) | 0/0 | 1/1 |
| Sodium hydroxide | 001310-73-2 | 45% | 1/1 | (2) | 0/0 | 1/1 |
| Sodium hydroxide | 001310-73-2 | 50% | 1/1 | 3/3 | 1/1 | 1/1 |
| Sodium hydroxide | 001310-73-2 | 60% | 1/1 | (2) | 0/0 | 1/1 |
| Sodium hydroxide | 001310-73-2 | 1% | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium hypochlorite | 007681-52-9 | diluted | 2/3 | 1/1 | 0/0 | 1/1 |
| Sodium hypochlorite | 007681-52-9 | 15% | 2/3 | 3/4 | 1/1 | 1/1 |
| Sodium hypochlorite | 007681-52-9 | saturated | 2/3 | (3) | 0/0 | 1/1 |
| Sodium hypochlorite | 007681-52-9 | 12,5% Cl | 2/3 | 1/1 | 1/1 | 1/1 |
| Sodium iodide | 007681-82-5 | each | 1/0 | 1/3 | 1/1 | 1/1 |
| Sodium metabisulfite | 007681-57-4 | each | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium nitrate | 007631-99-4 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium nitrate | 007631-99-4 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium nitrite | 007632-00-0 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium nitrite | 007632-00-0 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |

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Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|---|-------------|--------------------------|--|------------|-----------|------------|
| Sodium oxalate | 000062-76-0 | saturated | 1/1 | 1/3 | 1/1 | 1/1 |
| Sodium perborate | 013517-20-9 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium perborate | 013517-20-9 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium perchlorate | 007601-89-0 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium peroxide | 001313-60-6 | 10% | 2/2 | 1/1 | 0/0 | 1/1 |
| Sodium peroxide | 001313-60-6 | saturated | 2/2 | 1/1 | 0/0 | 1/1 |
| Sodium persulfate | 007775-27-1 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium phosphate | 010101-89-0 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium phosphate | 010101-89-0 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium polyphosphates | 068915-31-1 | saturated | 1/1 | (1) | 0/0 | 1/1 |
| Sodium silicate | 001344-09-8 | all | 1/1 | 1/3 | 0/0 | 1/1 |
| Sodium silicate | 001344-09-8 | saturated | 1/1 | 1/3 | 0/0 | 1/1 |
| Sodium stearate | 000822-16-2 | aqueous | 1/1 | (1) | 1/1 | 1/1 |
| Sodium sulfate | 007757-82-6 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium sulfate | 007757-82-6 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium sulfate | 007757-82-6 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium sulfide | 001313-82-2 | saturated | 1/1 | 3/3 | 0/0 | 1/1 |
| Sodium sulfide | 001313-82-2 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium sulfite | 007757-83-7 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium sulfoxylate see: Sodium hydrosulfite | | | | | | |
| Sodium thiosulfate | 010102-17-7 | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Sodium thiosulfate | 010102-17-7 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Sodium thiosulfate | 010102-17-7 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Soft soap | - | diluted | 1/1 | (1) | 0/0 | 1/1 |
| Soya oil | 008001-22-7 | | 1/0 | 1/1 | 0/0 | 1/1 |
| Spermaceti | 008002-23-1 | | 0/0 | 4/4 | (1) | 1/1 |
| Spindle oil | - | | 1/4 | 1/1 | 0/0 | 1/1 |
| Spinning bath acid | - | 100mg CS ₂ /l | 1/0 | 1/0 | 0/0 | 1/1 |
| Spirit (of wine) | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Spirits | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Spirits of Turpentine | 008006-64-2 | | 4/4 | 1/3 | 1/1 | 1/0 |
| Spirits of wine | - | 50% | 1/1 | 1/1 | 0/0 | 1/1 |
| Spirits of wine | - | 96% | 1/1 | 1/1 | 1/1 | 1/1 |

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|---------------------------------|-------------|---------------|--|------------|-----------|------------|
| Spruce oil | 008008-80-8 | | 1/2 | (2) | 1/2 | (1) |
| Stannic chloride | 007646-78-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Stannous chloride | 007772-99-8 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Stannous chloride | 007772-99-8 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |
| Starch solution | - | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Starch syrup | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Stauffer grease, thick | - | | (2) | (1) | 0/0 | 1/1 |
| Steam | - | up to 150 °C | (3) | 0 | 0 | 1 |
| Stearic acid | 000057-11-4 | crystals | 1/3 | 1/1 | 1/1 | 1/1 |
| Strontium bromide | 010476-81-0 | | 1/1 | (1) | 0/0 | 1/1 |
| Strychnine | 000057-24-9 | | (1) | (1) | 0/0 | 1/1 |
| Styrene | 000100-42-5 | 100% | 3/4 | (2) | 0/0 | 1/1 |
| Succinic acid | 000110-15-6 | 50% | 1/1 | 1/1 | 1/1 | 1/1 |
| Succinic acid | 000110-15-6 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Sugar acid | - | saturated | 1/1 | (1) | 0/0 | 1/1 |
| Sugar beet juice | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Sugar syrup | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Sulfur S8 | 007704-34-9 | techn. pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Sulfur (mono)chloride | 010025-67-9 | | 4/4 | 1/0 | 0/0 | 1/1 |
| Sulfur dioxide | 007446-09-5 | damp | 1/3 | 1/4 | 1/1 | 1/1 |
| Sulfur dioxide | 007446-09-5 | liquid | 4/4 | 4/4 | 1/2 | 1/1 |
| Sulfur hexafluoride | 002551-62-4 | | (2) | (2) | 0/0 | (1) |
| Sulfur trioxide | 007446-11-9 | | 4/4 | 3/4 | 0/0 | (2) |
| Sulfur, melted, 121 °C | 007704-34-9 | | 4 | 0 | 0 | (1) |
| Sulfuric acid | 007664-93-3 | 40% | 1/1 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid | 007664-93-3 | 60% | 1/3 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid | 007664-93-3 | 80% | 1/1 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid | 007664-93-3 | 95% | 3/4 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid | 007664-93-3 | fuming | 4/4 | 4/4 | 0/0 | 1/0 |
| Sulfuric acid | 007664-93-3 | 1-6 % | 1/1 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid | 007664-93-3 | 20% | 1/2 | 1/1 | 1/1 | 1/1 |
| Sulfuric acid see: Battery acid | | | | | | |
| Sulfurous acid | 007782-99-2 | saturated | 1/1 | 1/1 | 0/0 | 1/1 |

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Chemical Resistance

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|---|-------------|----------------|--|------------|-----------|------------|
| Sulfurous acid, disodium see: Sodium sulfite | | | | | | |
| Sulfuryl chloride | 007791-25-5 | techn. pure | 4/4 | 3/0 | 0/0 | 1/0 |
| Tallow | - | techn. Pure | 1/1 | 1/1 | 0/0 | 1/1 |
| Tannic acid | 001401-55-4 | 10% | 1/1 | 1/1 | 0/0 | 1/1 |
| Tannic acid | 001401-55-4 | | 1/1 | 1/1 | 0/0 | 1/1 |
| Tanning extracts | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Tanning extracts, vegetable | - | techn. usually | 1/1 | 1/1 | 0/0 | 1/1 |
| Tar | - | | (2) | (2) | 0/0 | (1) |
| Tartaric acid | 000087-69-4 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Tartaric acid | 000087-69-4 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Tetrabromoethane (TBE) | - | 100% | 3/4 | (2) | 0/0 | (1) |
| Tetrachlorethane | - | techn. pure | 3/4 | 1/3 | 0/0 | 1/1 |
| Tetrachlorodifluoroethane | 000076-12-0 | | (3) | 0/0 | 0/0 | (1) |
| Tetrachloroethylene | 000127-18-4 | | 4/4 | 1/1 | 1/1 | 1/1 |
| Tetrahydrofuran (THF) | 000109-99-9 | | 3/4 | 3/3 | 2/3 | 1/0 |
| Tetrahydrofurfuryl alcohol | 000097-99-4 | | (2) | (2) | 0/0 | (1) |
| Tetrahydronaphthalene | 000119-64-2 | techn. pure | 4/4 | 1/0 | 0/0 | 1/0 |
| Thiocyanic acid, ammonium see: Ammonium thiocyanate | | | | | | |
| Thioglycolic acid | 000068-11-1 | | 1/1 | (3) | 0/0 | 1/1 |
| Thionyl chloride | 007719-09-7 | techn. pure | 4/4 | (3) | 1/1 | 1/0 |
| Thiophene | 000110-02-1 | | 3/4 | (3) | 0/0 | (1) |
| Thymol | 000089-83-8 | | (3) | (2) | 0/0 | (1) |
| Titanium (tetra)chloride | 007550-45-0 | | (3) | (3) | 0/0 | (1) |
| Toluene | 092045-38-0 | 100% | 1/3 | (2) | 0/0 | (1) |
| Train oil | - | | (2) | (1) | 0/0 | (1) |
| Transformer oil | - | | 1/3 | (3) | 0/0 | 1/1 |
| Triacetin | 000102-76-1 | | (2) | (2) | 0/0 | (1) |
| Tribromomethane | 000075-25-2 | | 4/4 | (2) | 2/3 | (1) |
| Tributyl citrate (TBC) | 000077-94-1 | | 2/3 | (2) | 1/2 | (1) |
| Tributyl phosphate (TBP) | 000126-73-8 | techn. pure | 1/3 | 1/0 | 0/0 | 1/1 |
| Trichloroacetaldehyde | 000075-87-6 | 100% | 1/1 | (4) | 0/0 | 0/0 |
| Trichloroacetic acid (TCA) | 000076-03-9 | | 1/1 | 1/4 | 0/0 | 1/1 |

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|--|-------------|---------------|--|------------|-----------|------------|
| Trichlorobenzene | - | 100% | 4/4 | (3) | 0/0 | (2) |
| Trichloroethane | - | | 4/4 | 1/3 | 1/2 | (1) |
| Trichloroethylene (TRI) | 000079-01-6 | 100% | 4/4 | 1/1 | 1/2 | 1/0 |
| Trichlorofluoromethane | 000075-69-4 | | (3) | 0/0 | 0/0 | (1) |
| Trichlorophenol | - | | (3) | (3) | 0/0 | (1) |
| Trichlorotrifluoroethane | 000076-13-1 | | (3) | 1/0 | 0/0 | (1) |
| Trichlorotrifluoroethane | - | 100% | 4/4 | 1/0 | 0/0 | (1) |
| Tricresyl phosphate (TCF) | - | techn. Pure | 1/3 | (3) | 0/0 | 1/1 |
| Triethanolamine (TEA) | 000102-71-6 | techn. pure | 1/1 | 1/0 | 0/0 | 1/0 |
| Triethylamine (TEA) | 000121-44-8 | techn. pure | 4/4 | 3/4 | 0/0 | (1) |
| Triethylene glycol | 000112-27-6 | | 1/1 | (2) | 1/1 | (1) |
| Triethylene glycol diacetate | 000111-21-7 | | (2) | (3) | 0/0 | (1) |
| Trihydroxypropane, 1,2,3- see: Glycerol | | | | | | |
| Triiodomethane see: Iodoform | | | | | | |
| Triisopropylbenzene | 000717-74-8 | | (3) | (2) | 0/0 | (1) |
| Trimethylbenzene, 1,2,4- | 000095-63-6 | | 3/3 | (2) | 0/0 | (1) |
| Trimethylolpropane | 000077-99-6 | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Trimethylpentane, 2,2,4- | 000540-84-1 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |
| Trioctyl phosphate | 000078-42-2 | techn. pure | 1/3 | (3) | 0/0 | 1/1 |
| Tripropylene glycol (TPG) | 024800-44-0 | | 1/1 | (2) | 1/1 | 1/1 |
| Trisodium phosphate | 007601-54-9 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Turbine oil (based on mineral oil) | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Turpentine surrogate | - | | (3) | (1) | 0/0 | 1/1 |
| Two-stroke oil | - | 100% | 1/3 | 1/1 | 0/0 | 1/1 |
| Undecanol | 000112-42-5 | | 1/2 | (1) | 1/2 | 1/1 |
| Urea | 000057-13-6 | aqueous | 1/1 | 1/1 | 1/1 | 1/1 |
| Urea | 000057-13-6 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Uric acid | 000069-93-2 | | 1/0 | 1/1 | 1/1 | 1/1 |
| Urine | - | | 1/1 | 1/1 | 1/1 | 1/1 |
| Urotropin see: Hexamethylenetetramine | | | | | | |
| Valerian drops | - | | (2) | (1) | 0/0 | 1/1 |
| Vaseline | 008009-03-8 | techn. pure | 1/3 | 1/1 | 0/0 | 1/1 |

Legend

Two values are given per substance
left number = value at +20°C /
right number = value at +50°C.

0 no data available
1 resistant
2 practically resistant
3 partially resistant
4 not resistant

K no general information available
L danger of pitting or stress-cracking corrosion
() estimated value



Chemical Resistance

| Chemical | Cas-Nr. | Concentration | ELSR-N-AO/BO ELSR-M-AO/BO ELSR-L-AO/BO ELSR-W-AO/BO | ELSR-N-BOT | ELSR-M-BF | ELSR-H-BOT |
|-----------------------------------|-------------|---------------|--|------------|-----------|------------|
| Vaseline oil | 008012-95-1 | 100% | 1/3 | (1) | 0/0 | (1) |
| Vaseline oil | 008012-95-1 | | 1/3 | 1/1 | 0/0 | 1/1 |
| Vegetable oils | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Vinegar | 000064-19-7 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Vinyl acetate | 000108-05-4 | techn. pure | 0/0 | 1/0 | 1/0 | 1/1 |
| Vinyl carbinol see: Allyl alcohol | | | | | | |
| Vinyl chloride (VCM) | 000075-01-4 | techn. pure | (3) | 1/1 | 0/0 | (1) |
| Vinyl cyanide see: Acrylonitrile | | | | | | |
| Vinylidene chloride | 000075-35-4 | | 4/4 | (2) | 2/3 | (1) |
| Vitamin C | 000050-81-7 | liquid | 1/1 | 1/1 | 1/1 | 1/1 |
| Walnut oil | 008024-09-7 | | 3/3 | (3) | (1) | 1/1 |
| Washingup liquid | - | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Water H2O | 007732-18-5 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Water, distilled | 007732-18-5 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Wax alcohol | - | techn. Pure | 3/4 | 1/1 | 0/0 | 1/1 |
| Waxes | - | | 1/3 | 1/1 | 0/0 | 1/1 |
| Wetting agent | - | 5% | 1/1 | 1/1 | 0/0 | 1/1 |
| Whey | - | | 1/1 | (1) | 1/1 | 1/1 |
| Whiskey | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| White Spirit | 008042-47-5 | | 1/3 | (2) | 0/0 | 1/1 |
| Wines | - | | 1/1 | 1/1 | 0/0 | 1/1 |
| Wort for fermentation | - | | 1/1 | (2) | 1/1 | 1/1 |
| Xenon | 007440-63-3 | | (2) | 1/1 | 0/0 | 1/1 |
| Xylene | 001330-20-7 | | 4/4 | 1/3 | 1/2 | 1/0 |
| Yeast | - | all | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinc acetate | 000557-34-6 | aqueous | 1/1 | (1) | 0/0 | 1/1 |
| Zinc bromide | 007699-45-8 | | 1/1 | (1) | 0/0 | 1/1 |
| Zinc carbonate | 003486-35-9 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinc chloride | 007646-85-7 | aqueous | 1/1 | 1/1 | 0/0 | 1/1 |
| Zinc nitrate | 007779-88-6 | | 1/1 | (1) | 0/0 | 1/1 |
| Zinc oxide | 001314-13-2 | solid | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinc oxide ointment | - | | (2) | (2) | 0/0 | 1/1 |
| Zinc phosphate | 007779-90-0 | saturated | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinc sludge | - | | 1/1 | (2) | 0/0 | (1) |

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Chemical Resistance

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|---------------|-------------|---------------|--|------------|-----------|------------|
| Zinc stearate | 000557-05-1 | | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinc sulfate | 007733-02-0 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| Zinkchlorid | 007646-85-7 | 10% | 1/1 | 1/1 | 1/1 | 1/1 |
| | | | | | | |

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