

CHEMICAL RESISTANCE OF BELZONA® 1321

FN 10026



| | Chemical name (Synonym) | Chemical formula (CAS number) | Concentration | 20 °C 68 °F | Other |
|---|---|---|---------------|----------------|-------|
| Inorganic Acids | Carbonic acid | H ₂ CO ₃ (463-79-6) | - | Ex | - |
| | Fluorosilicic acid | H ₂ SiF ₆ (16961-83-4) | - | M | - |
| | Hydrobromic acid | HBr (10035-10-6) | 10% | Ex | - |
| | Hydrochloric acid | HCl (7647-01-0) | 35% | M | - |
| | | | 20% | Ex | - |
| | | | 10% | Ex | - |
| | Nitric acid | HNO ₃ (7697-37-2) | 50% | P | - |
| | | | 20% | G | - |
| | | | 10% | Ex | - |
| Nitrous acid | HNO ₂ (7782-77-6) | 20% | Ex | - | |
| Oleum | | - | P | - | |
| Phosphoric acid (orthophosphoric acid) | H ₃ PO ₄ (7664-38-2) | 20% | G | - | |
| | | 10% | G | - | |
| | | 5% | Ex | - | |
| Sulfuric acid | H ₂ SO ₄ (7664-93-9) | 98% | P | - | |
| | | 50% | G | - | |
| | | 20% | Ex | - | |
| | | 10% | Ex | - | |
| Organic Acids | Acetic acid (ethanoic acid) | CH ₃ COOH (64-19-7) | 50% | P | - |
| | | | 20% | P | - |
| | | | 10% | M | - |
| | Chloroacetic acid | ClCH ₂ COOH (79-11-8) | - | M | - |
| | Chlorosulfonic acid (sulfurochloridic acid) | HSO ₃ Cl (7790-94-5) | - | M | - |
| | Citric acid | C ₆ H ₈ O ₇ (77-92-9) | - | Ex | - |
| | Cresylic acid (cresol) | C ₇ H ₈ O (1319-77-3) | - | P | - |
| | Formic acid (methanoic acid) | HCOOH (64-18-6) | 20% | M | - |
| 10% | | | M | - | |
| Lactic acid (2-hydroxypropanoic acid) | CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7) | 10% | G | - | |
| Phenol | C ₆ H ₅ OH (108-95-2) | 80% | P | - | |
| Alcohols | n-Butanol (butyl alcohol) | C ₄ H ₉ OH (71-36-3) | - | Ex | - |
| | Ethanol (ethyl alcohol) | CH ₃ CH ₂ OH (64-17-5) | - | G | - |
| | Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG) | (CH ₂ OH) ₂ (107-21-1) | - | Ex | - |
| | Glycerol (glycerine, propane-1,2,3-triol) | HOCH ₂ CH(OH)CH ₂ OH (56-81-5) | - | Ex | - |
| | Higher alcohols | C _n H _(2n+1) OH where n > 2 | - | Ex | - |
| | Methanol (methyl alcohol) | CH ₃ OH (67-56-1) | - | M | - |

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| Alcohols continued | 2-Methoxyethanol | C ₃ H ₈ O ₂ (109-86-4) | - | Ex | - |
| | Propan-1-ol (Propyl alcohol) | CH ₃ CH ₂ CH ₂ OH (71-23-8) | - | Ex | - |
| | Propylene glycol (1,2-Propanediol) | CH ₃ CH(OH)CH ₂ OH (57-55-6) | - | Ex | - |
| | Secondary alcohols | R ₁ R ₂ CHOH | - | Ex | - |
| | Tertiary alcohols | R ₁ R ₂ R ₃ COH | - | Ex | - |
| Alkalis | Ammonia | NH ₃ (7664-41-7) | 30% | G | - |
| | | | 20% | Ex | - |
| | | | 10% | Ex | - |
| | Barium hydroxide | Ba(OH) ₂ (17194-00-2) | - | Ex | - |
| | Calcium hydroxide (lime water) | Ca(OH) ₂ (1305-62-0) | - | Ex | - |
| | Magnesium hydroxide (milk of magnesia) | Mg(OH) ₂ (1309-42-8) | - | Ex | - |
| Potassium hydroxide (caustic potash) | KOH (1310-58-3) | 40% | Ex | - | |
| | | 20% | Ex | - | |
| | | 10% | Ex | - | |
| Sodium hydroxide (caustic soda) | NaOH (1310-73-2) | 50% | Ex | - | |
| | | 40% | Ex | - | |
| | | 20% | Ex | - | |
| Amines & Amides | Aniline (Phenylamine) | C ₆ H ₅ NH ₂ (62-53-3) | - | M | - |
| | Diethanolamine | HN(CH ₂ CH ₂ OH) ₂ (111-42-2) | - | Ex | - |
| | Diethylamine | CH ₃ CH ₂ NHCH ₂ CH ₃ (109-89-7) | - | P | - |
| | Dimethylformamide | (CH ₃) ₂ NC(O)H (68-12-2) | - | P | - |
| | Methylamine (25% in water) | CH ₃ NH ₂ (74-89-5) | - | Ex | - |
| | Pyridine | C ₅ H ₅ N (110-86-1) | - | P | - |
| | Triethanolamine (TEA) (2,2',2''-nitrioltriethanol) | N(CH ₂ CH ₂ OH) ₃ (102-71-6) | - | Ex | - |
| Beverages & Foodstuffs | Beer | | - | Ex | - |
| | Cider | | - | Ex | - |
| | Citrus juices | | - | Ex | - |
| | Fermentation liquor | | - | Ex | - |
| | Glucose | | - | Ex | - |
| | Milk | | - | G | - |
| | Sugar solution | | - | Ex | - |
| | Vinegar | | - | G | - |
| | Whisky and Wine | | - | Ex | - |

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| Esters & Ethers | Amyl acetate | CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7) | - | Ex | - |
| | Butyl acetate | C ₆ H ₁₂ O ₂ (123-86-4) | - | Ex | - |
| | Dibutyl adipate | [CH ₂ CH ₂ CO ₂ (CH ₂) ₃ CH ₃] ₂ (105-99-7) | - | Ex | - |
| | Dibutyl phthalate | C ₁₆ H ₂₂ O ₄ (84-74-2) | - | Ex | - |
| | Dibutyl sebacate | C ₁₈ H ₃₄ O ₄ (109-43-3) | - | Ex | - |
| | Diocetyl adipate | C ₂₂ H ₄₂ O ₄ (123-79-5) | - | Ex | - |
| | Diocetyl phthalate | C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7) | - | Ex | - |
| | Diocetyl sebacate | (CH ₂) ₈ (COOC ₈ H ₁₇) ₂ | - | Ex | - |
| | Diethyl ether | (C ₂ H ₅) ₂ O (60-29-7) | - | Ex | - |
| | Diphenyl isodecyl phosphate | C ₂₂ H ₃₁ O ₄ P (29761-21-5) | - | Ex | - |
| | Ethyl acetate | CH ₃ COOCH ₂ CH ₃ (141-78-6) | - | Ex | - |
| | Isopropyl ether | C ₆ H ₁₄ O (108-20-3) | - | Ex | - |
| | Methyl acetate | CH ₃ COOCH ₃ (79-20-9) | - | Ex | - |
| Gases | Carbon dioxide (dry) | CO ₂ (124-38-9) | - | Ex | - |
| | Carbon monoxide | CO (630-08-0) | - | Ex | - |
| | Chlorine (dry) | Cl ₂ (7782-50-5) | - | Ex | - |
| | Hydrogen | H ₂ (1333-74-0) | - | Ex | - |
| | Natural Gas (Methane) | CH ₄ | - | Ex | - |
| | Nitrogen | N ₂ (7727-37-9) | - | Ex | - |
| | Nitrous oxide (dinitrogen monoxide) | N ₂ O (10024-97-2) | - | Ex | - |
| | Ozone (dry) | O ₃ (10028-15-6) | - | Ex | - |
| | Ozone (aqueous solution) | | - | M | - |
| | Sulphur dioxide | SO ₂ (7446-09-5) | - | Ex | - |
| | Sulphur trioxide (sulphuric anhydride) | SO ₃ (7446-11-9) | - | Ex | - |

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| Halocarbons | Carbon tetrachloride | CCl ₄ (56-23-5) | - | Ex | - |
| | Chlorobenzene | C ₆ H ₅ Cl (108-90-7) | - | G | - |
| | Chloroform | CHCl ₃ (67-66-3) | - | G | - |
| | Dry cleaning fluids | | - | G | - |
| | Methylene chloride (dichloromethane) | CH ₂ Cl ₂ (75-09-2) | - | P | - |
| | Perchloroethylene (tetrachloroethylene) | Cl ₂ C=CCl ₂ (127-18-4) | - | G | - |
| | 1,1,1, - Trichloroethane (methyl chloroform) | CH ₃ CCl ₃ (71-55-6) | - | Ex | - |
| Hydrocarbons | Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR) | N/A | - | Ex | - |
| | Benzene (benzol) | C ₆ H ₆ (71-43-2) | - | Ex | - |
| | Cyclohexane | C ₆ H ₁₂ (110-82-7) | - | Ex | - |
| | Gasoline – Ethanol free (Petrol) | | - | Ex | - |
| | Heptane | CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-5) | - | Ex | - |
| | Hexane | CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3) | - | Ex | - |
| | Iso-octane (2,2,4-trimethylpentane) | (CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1) | - | Ex | - |
| | Kerosene | N/A (8008-20-6) | - | Ex | - |
| | Paraffin | N/A (8002-74-2) | - | Ex | - |
| | Pentane | CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0) | - | Ex | - |
| | Styrene | C ₆ H ₅ CH=CH ₂ (100-42-5) | - | Ex | - |
| | Toluene (methylbenzene, phenylmethane, toluol) | C ₆ H ₅ CH ₃ (108-88-3) | - | Ex | - |
| | White Spirit (Stoddard solvent, Mineral spirits) | | - | Ex | - |
| | Xylene (dimethyl benzene, xylol) | C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7) | - | Ex | - |
| Ketones | Acetone | (CH ₃) ₂ CO (67-64-1) | - | M | - |
| | Methyl ethyl ketone (MEK, butanone) | CH ₃ C(O)CH ₂ CH ₃ (78-93-3) | - | M | - |
| Miscellaneous | Brake fluid | | - | Ex | - |
| | Drilling mud | | - | Ex | - |
| | Emulsion paint | | - | Ex | - |
| | Fertilizer solutions | | - | Ex | - |
| | Grease | | - | Ex | - |

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| Miscellaneous continued | Ink (water based) | | - | Ex | - |
| | Mercury | Hg | - | Ex | - |
| | Mine waters (acid) | | - | Ex | - |
| | Oil/water mixtures | | - | Ex | - |
| | Water, distilled | | - | Ex | - |
| | Water, fresh | | - | Ex | - |
| Oils - Mineral | Water, sea | | - | Ex | - |
| | Bunker oils (fuel oils) | | - | Ex | - |
| | Crude oil | | - | Ex | - |
| | Cutting oils, water emulsions | | - | Ex | - |
| | Diesel oil | | - | Ex | - |
| | Lubricating oil | | - | Ex | - |
| Oils - Vegetable/ Animal | Transformer oil | | - | Ex | - |
| | Castor oil | | - | Ex | - |
| | Coconut oil | | - | Ex | - |
| | Cod liver oil | | - | Ex | - |
| | Corn oil | | - | Ex | - |
| | Linseed oil | | - | Ex | - |
| Salts | Olive oil | | - | Ex | - |
| | Aluminium chloride (dry) | AlCl ₃ (7446-70-0) | - | Ex | - |
| | Aluminium sulphate | Al ₂ (SO ₄) ₃ (10043-01-3) | - | Ex | - |
| | Alums | | - | Ex | - |
| | Ammonium bicarbonate | (NH ₄)HCO ₃ (1066-33-7) | - | Ex | - |
| | Ammonium carbonate | (NH ₄) ₂ CO ₃ (506-87-6) | - | Ex | - |
| | Ammonium chloride | NH ₄ Cl (12125-02-9) | - | Ex | - |
| | Ammonium monophosphate | NH ₄ H ₂ PO ₄ (7722-76-1) | - | Ex | - |
| | Ammonium phosphate (dibasic) | (NH ₄) ₂ HPO ₄ (7783-28-0) | - | Ex | - |
| | Ammonium phosphate (tribasic) | (NH ₄) ₃ PO ₄ (10361-65-6) | - | Ex | - |
| | Ammonium nitrate | NH ₄ NO ₃ (6484-52-2) | - | Ex | - |
| | Ammonium sulfate | (NH ₄) ₂ SO ₄ (7783-20-2) | - | Ex | - |
| | Antimony trichloride | SbCl ₃ (10025-91-9) | - | Ex | - |
| | Barium carbonate | BaCO ₃ (513-77-9) | - | Ex | - |
| | Barium chloride | BaCl ₂ (10361-37-2) | - | Ex | - |
| | Barium sulfate | BaSO ₄ (7727-43-7) | - | Ex | - |
| Brines | | - | Ex | - | |
| Calcium bisulfite | Ca(HSO ₃) ₂ (13780-03-5) | - | Ex | - | |

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| Salts continued | Calcium carbonate | CaCO ₃ (471-34-1) | - | Ex | - |
| | Calcium chloride | CaCl ₂ (10043-52-4) | - | Ex | - |
| | Calcium hypochlorite | Ca(ClO) ₂ (7778-54-3) | - | M | - |
| | Calcium sulphate | CaSO ₄ (7778-18-9) | - | Ex | - |
| | Chrome alum | KCr(SO ₄) ₂ (10141-00-1) | - | Ex | - |
| | Copper acetate | Cu(CH ₃ COO) ₂ (142-71-2) | - | Ex | - |
| | Copper chloride | CuCl ₂ (7447-39-4) | - | Ex | - |
| | Copper nitrate | Cu(NO ₃) ₂ (3251-23-8) | - | Ex | - |
| | Copper sulphate | CuSO ₄ (7758-98-7) | - | Ex | - |
| | Ferric chloride (dry) | FeCl ₃ (7705-08-0) | - | Ex | - |
| | Ferric nitrate | Fe(NO ₃) ₃ (10421-48-4) | - | Ex | - |
| | Ferric sulfate | Fe ₂ (SO ₄) ₃ (10028-22-5) | - | Ex | - |
| | Ferrous chloride | FeCl ₂ (7758-94-3) | - | Ex | - |
| | Ferrous sulfate | FeSO ₄ (7720-78-7) | - | Ex | - |
| | Lead acetate | Pb(CH ₃ COO) ₂ (301-04-2) | - | Ex | - |
| | Magnesium bisulfate | Mg(HSO ₄) ₂ (10028-26-9) | - | Ex | - |
| | Magnesium chloride | MgCl ₂ (7786-30-3) | - | Ex | - |
| | Magnesium sulphate (Epsom salt) | MgSO ₄ (7487-88-9) | - | Ex | - |
| | Mercuric chloride | HgCl ₂ (7487-94-7) | - | Ex | - |
| | Mercuric cyanide | Hg(CN) ₂ (592-04-1) | - | Ex | - |
| | Nickel ammonium sulfate | (NH ₄) ₂ Ni(SO ₄) ₂ (7785-20-8) | - | Ex | - |
| | Nickel chloride | NiCl ₂ (7718-54-9) | - | Ex | - |
| | Nickel nitrate | Ni(NO ₃) ₂ (13138-45-9) | - | Ex | - |
| | Nickel sulfate | NiSO ₄ (7786-81-4) | - | Ex | - |
| Potassium aluminium sulphate (potash alum) | KAl(SO ₄) ₂ (10043-67-1) | - | Ex | - | |
| Potassium bisulfite | KHSO ₃ (7773-03-7) | - | Ex | - | |
| Potassium bromide | KBr (7758-02-3) | - | Ex | - | |

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| | Potassium chlorate | KClO ₃ (3811-04-9) | - | Ex | - |
| | Potassium chloride | KCl (7447-40-7) | - | Ex | - |
| | Potassium cyanide | KCN (151-50-8) | - | Ex | - |
| | Potassium dichromate | K ₂ Cr ₂ O ₇ (7778-50-9) | - | Ex | - |
| | Potassium diphosphate | K ₂ HPO ₄ (7758-11-4) | - | Ex | - |
| | Potassium ferricyanide | K ₃ [Fe(CN) ₆] (13746-66-2) | - | Ex | - |
| | Potassium ferrocyanide | K ₄ [Fe(CN) ₆] (13943-58-3) | - | Ex | - |
| | Potassium iodide | KI (7681-11-0) | - | Ex | - |
| | Potassium nitrate | KNO ₃ (7757-79-1) | - | Ex | - |
| | Potassium permanganate | KMnO ₄ (7722-64-7) | - | Ex | - |
| | Potassium sulfate | K ₂ SO ₄ (7778-80-5) | - | Ex | - |
| | Potassium sulfide | K ₂ S (1312-73-8) | - | Ex | - |
| | Potassium sulphite | K ₂ SO ₃ (10117-38-1) | - | Ex | - |
| | Silver nitrate | AgNO ₃ (7761-88-8) | - | Ex | - |
| | Sodium acetate | CH ₃ COONa (127-09-3) | - | Ex | - |
| | Sodium aluminate | NaAlO ₂ (1302-42-7) | - | Ex | - |
| | Sodium bicarbonate | NaHCO ₃ (144-55-8) | - | Ex | - |
| | Sodium bisulfate | NaHSO ₄ (7681-38-1) | - | Ex | - |
| | Sodium bisulfite | NaHSO ₃ (7631-90-5) | - | Ex | - |
| | Sodium borate (borax) | Na ₂ B ₄ O ₇ (1303-96-4) | - | Ex | - |
| | Sodium bromide | NaBr (7647-15-6) | - | Ex | - |
| | Sodium carbonate (soda ash) | Na ₂ CO ₃ (497-19-8) | - | Ex | - |
| | Sodium chlorate | NaClO ₃ (7775-09-9) | - | Ex | - |
| | Sodium chloride | NaCl (7647-14-5) | - | Ex | - |
| | Sodium chromate | Na ₂ CrO ₄ (7775-11-3) | - | Ex | - |
| Sodium cyanide | NaCN (143-33-9) | - | Ex | - | |
| Sodium fluoride | NaF (7681-49-4) | - | Ex | - | |

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| Salts continued | Sodium hypochlorite (bleach) | NaClO (7681-52-9) | 12% | M | - |
| | Sodium metaphosphate | (NaPO ₃) ₆ (10124-56-8) | - | Ex | - |
| | Sodium metasilicate (sodium silicate) | Na ₂ SiO ₃ (6834-92-0) | - | Ex | - |
| | Sodium nitrate | NaNO ₃ (7631-99-4) | - | Ex | - |
| | Sodium phosphate (dibasic) | Na ₂ HPO ₄ (7558-79-4) | - | Ex | - |
| | Sodium phosphate (tribasic) | Na ₃ PO ₄ (7601-54-9) | - | Ex | - |
| | Sodium sulfate | Na ₂ SO ₄ (7757-82-6) | - | Ex | - |
| | Sodium sulfide | Na ₂ S (1313-82-2) | - | Ex | - |
| | Stannous chloride (tin chloride) | SnCl ₂ (7772-99-8) | - | Ex | - |
| | Zinc chloride | ZnCl ₂ (7646-85-7) | - | Ex | - |
| | Zinc hydrosulfite | ZnS ₂ O ₄ (7779-86-4) | - | Ex | - |
| | Zinc sulfate | ZnSO ₄ (7733-02-0) | - | Ex | - |

| | | |
|-----------|----|--|
| Excellent | Ex | Suitable for all reasonable applications including immersion. |
| Good | G | Suitable for applications involving immersion for short periods, splashing and contact with fumes. |
| Moderate | M | Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation. |
| Poor | P | <i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i> |
| Note: | | Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance or colour stability following contact. |

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however, subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose. Nothing in the foregoing statement shall exclude or limit any liability of Belzona to the extent such liability cannot by law be excluded or limited.