# CHEMICAL RESISTANCE OF BELZONA® 1392

FN10035

| | Chemical name (Synonym) | Chemical formula (CAS number) | Concentration | Chemical Resistance 20 ˚C 68 ˚F | 60 ˚C 140 ˚F | 90 ˚C 194 ˚F | Other |
|---|---|---|---|---|---|---|---|
| Inorganic Acids | Hydrochloric acid | HCl (7647-01-0) | 36% | G* | G | **P** | - |
| | | | 20% | Ex* | G | **P** | - |
| | | | 10% | Ex* | G | **M** | - |
| | | | 5% | Ex | Ex | **Ex** | - |
| | | | 3% | Ex | Ex | **Ex** | - |
| | Nitric acid | $HNO_3$ (7697-37-2) | 69% | P* | P | **P** | - |
| | | | 50% | M* | P | **P** | - |
| | | | 20% | Ex* | M | **P** | - |
| | | | 10% | Ex* | G | **P** | - |
| | | | 5% | Ex* | G | **M** | - |
| | Nitrous acid | $HNO_2$ (7782-77-6) | 20% | Ex* | M | P | - |
| | Phosphoric acid (orthophosphoric acid) | $H_3PO_4$ (7664-38-2) | 85% | G* | P | P | - |
| | | | 40% | Ex* | G | P | - |
| | | | 20% | Ex* | G | P | - |
| | | | 10% | Ex* | Ex | M | - |
| | | | 5% | Ex | Ex | M | - |
| | Sulphuric acid | $H_2SO_4$ (7664-93-9) | 98% | G* | M | **P** | - |
| | | | 70% | Ex* | Ex | **G** | - |
| | | | 50% | Ex* | Ex | **G** | - |
| | | | 30% | Ex* | Ex | **G** | - |
| | | | 20% | Ex* | Ex | **G** | - |
| | | | 10% | Ex* | Ex | G | - |
| | | | 5% | Ex | Ex | **Ex** | - |

| | |
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| **Excellent** **Ex** | no significant deterioration / barrier properties retained for greater than 52 weeks<br>*suitable for all applications including long term immersion* |
| **Good** **G** | no significant deterioration / barrier properties retained for 12 - 52 weeks<br>*suitable for short-term immersion and general chemical contact* |
| **Moderate** **M** | no significant deterioration / barrier properties retained for 1 - 12 weeks<br>*suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment* |
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|---|---|---|---|---|---|---|---|
| Organic Acids | Acetic acid (ethanoic acid) | $CH_3COOH$ (64-19-7) | 100% | M* | P | P | - |
| | | | 70% | M* | P | P | - |
| | | | 50% | M* | P | P | - |
| | | | 20% | G* | M | P | - |
| | | | 10% | G* | G | M | - |
| | | | 5% | **Ex** | G | **G** | - |
| | | | 2% | **Ex** | G | **G** | - |
| | | | 1% | Ex | Ex | **Ex** | - |
| | | | 0.1% | Ex | Ex | **Ex** | - |
| | Acrylic acid (propenoic acid) | $CH_2CHCOOH$ (79-10-7) | - | M* | P | P | - |
| | Carbonic acid | $H_2CO_3$ (463-79-6) | - | Ex | Ex | Ex | - |
| | Cresol (methylphenol, cresylic acid) | $CH_3(C_6H_4)OH$ (95-48-7/108-39-4/106-44-5/1319-77-3) | - | M* | P | P | - |
| | Benzenediol (hydroquinone, resorcinol, catechol) | $C_6H_4(OH)_2$ (120-80-9) | - | M* | P | P | - |
| | Formic acid (methanoic acid) | HCOOH (64-18-6) | 20% | P* | P | P | - |
| | | | 10% | M* | P | P | - |
| | Lactic acid (2-hydroxypropanoic acid) | $CH_3CH(OH)(COOH)$ (50-21-5/79-33-4/10326-41-7) | 85% | M* | P | P | - |
| | | | 10% | G* | G | M | - |
| | Maleic acid (butenedioic acid) | $(CHCOOH)_2$ (110-16-7) | - | M* | P | P | - |
| | Methacrylic acid (MAA) (methylpropanoic acid) | $CH_2C(CH_3)(COOH)$ (79-41-4) | - | Ex* | G | P | - |

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|---|---|---|---|---|---|---|---|
| Organic Acids | Phenol (hydroxybenzene) | C6H5OH (108-95-2) | 80% | M* | P | P | - |
| | Stearic acid (octadecanoic acid) | CH3(CH2)16COOH (57-11-4) | - | Ex* | G | G | - |
| | Tannic acid | C76H52O46 (1401-55-4) | - | Ex* | G | G | - |
| Alcohols, Aldehydes and Ketones | Acetone (propanone) | $(CH_3)_2CO$ (67-64-1) | - | Ex* | - | - | 55˚C 131˚F Ex* |
| | Amyl alcohol | $C_5H_{11}OH$ (71-41-0) | - | Ex | Ex | Ex | - |
| | n-Butanol (butyl alcohol) | $C_4H_9OH$ (71-36-3) | - | Ex | Ex | Ex | - |
| | Ethanol (ethyl alcohol) | $CH_3CH_2OH$ (64-17-5) | - | Ex | Ex | - | - |
| | Ethyl cellosolve (2-ethoxyethanol, ethylene glycol monoethyl ether, ethyl glycol) | $CH_3CH_2OCH_2CH_2OH$ (110-80-5) | - | Ex | Ex | Ex | - |
| | Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG) | $(CH_2OH)_2$ (107-21-1) | - | Ex | Ex | **Ex** | - |
| | Formaldehyde (methanal) | $CH_2O$ (50-00-0) | 37% | Ex* | G | G | - |
| | Glycerol (glycerine, propane-1,2,3-triol) | $HOCH_2CH(OH)CH_2OH$ (56-81-5) | - | Ex | Ex | Ex | - |
| | n-Hexanol (hexyl alcohol) | $C_6H_{13}OH$ (111-27-3) | - | Ex | Ex | Ex | - |
| | Higher alcohols | $C_nH_{(2n+1)}OH$ where n > 2 | - | Ex | Ex | Ex | - |
| | Isopropyl alcohol (IPA) (isopropanol, propan-2-ol) | $CH_3CH(OH)CH_3$ (67-63-0) | - | Ex | Ex | - | - |

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|---|---|---|---|---|---|---|---|
| Alcohols, Aldehydes and Ketones | Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol) | (CH3)2CHCH2OH (78-83-1) | - | Ex | Ex | **Ex** | - |
| | Methanol (methyl alcohol) | CH3OH (67-56-1) | - | Ex* | Ex | - | - |
| | Methanol solution (aqueous) | $CH_3OH_{(aq)}$ (67-56-1) | 55% | Ex* | Ex | - | **79˚C 174˚F Ex** |
| | Methyl cellosolve (2-methoxyethanol, ethylene glycol monomethyl ether, methyl glycol) | $CH_3OCH_2CH_2OH$ (109-86-4) | - | Ex | Ex | Ex | - |
| | Methyl ethyl ketone (MEK) (2-butanone, methyl acetone) | $CH_3C(O)CH_2CH_3$ (78-93-3) | - | Ex* | Ex | - | - |
| | Methyl pentyl ketone (methyl n-amyl ketone, heptan-2-one) | $CH_3COCH_2CH_2CH_2CH_2CH_3$ (110-43-0) | - | Ex | Ex | G | - |
| | N-methyl-2-pyrrolidinone (NMP) | $C_5H_9NO$ (872-50-4) | - | G* | P | P | - |
| | Propan-1-ol (Propyl alcohol) | $CH_3CH_2CH_2OH$ (71-23-8) | - | Ex | Ex | Ex | - |
| | Propylene glycol (1,2-Propanediol) | $CH_3CH(OH)CH_2OH$ (57-55-6) | - | Ex | Ex | Ex | - |
| | Secondary alcohols | $R_1R_2CHOH$ | - | Ex | Ex | Ex | - |
| | Tertiary alcohols | $R_1R_2R_3COH$ | - | Ex | Ex | Ex | - |
| | Triethylene glycol (triglycol) | $HOCH_2CH_2OCH_2CH_2OCH_2CH_2OH$ (112-27-6) | - | Ex | Ex | Ex | - |
| | Tetraethylene glycol (tetraglycol) | $HOCH_2CH_2OCH_2CH_2OCH_2CH_2OCH_2CH_2OH$ (112-60-7) | - | Ex | Ex | Ex | - |

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|---|---|---|---|---|---|---|---|
| Alkalis / Bases | Ammonia solution (ammonium hydroxide) | $NH_{3\ (aq)}$ (1336-21-6) | 30% | M* | - | - | - |
| | | | 20% | Ex* | - | - | - |
| | | | 10% | Ex* | - | - | - |
| | Barium hydroxide | $Ba(OH)_2$ (17194-00-2) | - | Ex | Ex | Ex | - |
| | Calcium hydroxide (lime water) | $Ca(OH)_2$ (1305-62-0) | - | Ex | Ex | Ex | - |
| | Magnesium hydroxide (milk of magnesia) | $Mg(OH)_2$ (1309-42-8) | - | Ex | Ex | Ex | - |
| | Potassium hydroxide (caustic potash) | KOH (1310-58-3) | 40% | Ex | Ex | Ex | - |
| | | | 20% | Ex | Ex | Ex | - |
| | | | 10% | Ex | Ex | Ex | - |
| | Sodium hydroxide (caustic soda) | NaOH (1310-73-2) | 50% | Ex | Ex | Ex | - |
| | | | 40% | Ex | Ex | **Ex** | - |
| | | | 20% | Ex | Ex | Ex | - |
| | | | 10% | Ex | Ex | Ex | - |
| Amines & Amides | Aniline (phenylamine) | $C_6H_5NH_2$ (62-53-3) | - | Ex* | G | M | - |
| | Dibutylamine | $HN(CH_2CH_2CH_2CH_3)_2$ (111-92-2) | - | G* | M | P | - |
| | Diethanolamine (DEA) (2,2'-iminodiethanol) | $HN(CH_2CH_2OH)_2$ (111-42-2) | - | Ex | Ex | **Ex** | - |
| | Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol) | $H_2NCH_2CH_2OCH_2CH_2OH$ (929-06-6) | - | Ex | Ex | Ex | - |
| | N-Methyl diethanolamine (MDEA) | $CH_3N(CH_2CH_2OH)_2$ (105-59-9) | - | Ex | Ex | **Ex** | - |

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|---|---|---|---|---|---|---|---|
| Amines & Amides | N-Methylethanolamine (2-methylaminoethanol) | $CH_3NHCH_2CH_2OH$ (109-83-1) | - | Ex | Ex | **Ex** | - |
| | Monoethanolamine (MEA) (2-aminoethanol) | $H_2NCH_2CH_2OH$ (141-43-5) | - | Ex | Ex | **Ex** | - |
| | Pyridine | $C_5H_5N$ (110-86-1) | - | M* | P | P | - |
| | Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water) | N/A | - | Ex | Ex | **Ex** | - |
| | Triethanolamine (TEA) (2,2',2"-nitrilotriethanol) | $N(CH_2CH_2OH)_3$ (102-71-6) | - | Ex | Ex | Ex | - |
| Esters and Ethers | Butyl acetate (butyl ethanoate) | $CH_3C(O)OCH_2CH_2CH_2CH_3$ (123-86-4) | - | Ex | Ex | Ex | - |
| | Butyl ether (dibutyl ether) | $CH_3CH_2CH_2CH_2O\ CH_2CH_2CH_2CH_3$ (142-96-1) | - | Ex | Ex | Ex | - |
| | dibutyl adipate (adipic acid dibutyl ester, Dibutyl hexanedioate) | $(CH_2CH_2C(O)OCH_2CH_2CH_2CH_3)_2$ (105-99-7) | - | Ex | Ex | Ex | - |
| | Dibutyl phthalate (DBP) (phthalic acid dibutyl ester) | $C_6H_4(C(O)OCH_2CH_2CH_2CH_3)_2$ (84-74-2) | - | Ex | Ex | Ex | - |
| | Dibutyl sebacate (DBS) (sebacic acid dibutyl ester) | $(CH_2CH_2CH_2CH_2C(O)OCH_2CH_2CH_2CH_3)_2$ (109-43-3) | - | Ex | Ex | Ex | - |
| | Diethyl ether (ether, ethoxyethane) | $CH_3CH_2OCH_2CH_3$ (60-29-7) | - | Ex | - | - | - |
| | Dioctyl adipate (DOA) (bis(2-ethylhexyl) adipate) | $(CH_2CH_2C(O)O(CH_2)_7CH_3)_2$ (103-23-1) | - | Ex | Ex | Ex | - |
| | Dioctyl phthalate (DOP) (bis(2-ethylhexyl) phthalate, DEHP) | $C_6H_4(C(O)OCH_2CH(CH_2CH_3)CH_2CH_2CH_2CH_3)_2$ (117-81-7) | - | Ex | Ex | Ex | - |
| | Dioctyl sebacate (di(2-ethylhexyl) sebacate) | $((CH_2)_4C(O)OCH_2CH(CH_2CH_3)CH_2CH_2CH_2CH_3)_2$ (122-62-3) | - | Ex | Ex | Ex | - |

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| Esters and Ethers | Ethyl acetate (ethyl ethanoate, acetic ester) | $CH_3C(O)OCH_2CH_3$ (141-78-6) | - | Ex* | Ex | - | - |
| | Ethyl 3-ethoxypropionate (EEP solvent) | $CH_3CH_2OCH_2CH_2C(O)OCH_2CH_3$ (763-69-9) | - | Ex | Ex | Ex | - |
| | Isopropyl ether (diisopropyl ether) | $(CH_3)_2CHOCH(CH_3)_2$ (108-20-3) | - | Ex | Ex | Ex | - |
| | Pentyl acetate (amyl acetate, pentyl ethanoate, pear oil) | $CH_3C(O)OCH_2CH_2CH_2CH_2CH_3$ (628-63-7) | - | Ex | Ex | Ex | - |
| | Propylene glycol monomethyl ether acetate (PMA) | $CH_3OCH_2CH(CH_3)OC(O)CH_3$ (108-65-6) | - | Ex | Ex | Ex | - |
| Gases | Butane | $CH_3CH_2CH_2CH_3$ (106-97-8) | - | Ex | Ex | Ex | - |
| | Carbon dioxide | $CO_2$ (124-38-9) | - | Ex | Ex | Ex | - |
| | Carbon monoxide | CO (630-08-0) | - | Ex | Ex | Ex | - |
| | Chlorine (dry) | $Cl_2$ (7782-50-5) | - | Ex | Ex | Ex | - |
| | Ethane | $C_2H_6$ (74-84-0) | - | Ex | Ex | Ex | - |
| | Hydrogen | $H_2$ (1333-74-0) | - | Ex | Ex | Ex | - |
| | Hydrogen sulphide | $H_2S$ (7783-06-4) | - | Ex | Ex | Ex | - |
| | Methane (natural gas) | $CH_4$ (74-82-8) | - | Ex | Ex | Ex | - |
| | Nitrogen | $N_2$ (7727-37-9) | - | Ex | Ex | Ex | - |

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| Gases | Nitrous oxide (dinitrogen monoxide) | $N_2O$ (10024-97-2) | - | Ex | Ex | Ex | - |
| | Ozone (dry) | $O_3$ (10028-15-6) | - | Ex | Ex | Ex | - |
| | Ozone (wet) | $O_3$ (10028-15-6) | - | G* | M | M | - |
| | Sulphur dioxide | $SO_2$ (7446-09-5) | - | Ex | Ex | Ex | - |
| | Sulphur trioxide (sulphuric anhydride) | $SO_3$ (7446-11-9) | - | Ex | Ex | Ex | - |
| Halocarbons | Carbon tetrachloride (tetrachloromethane) | $CCl_4$ (56-23-5) | - | Ex* | G | - | - |
| | Chlorobenzene (benzene chloride, phenyl chloride) | $C_6H_5Cl$ (108-90-7) | - | Ex* | G | G | - |
| | Chloroform (trichloromethane) | $HCCl_3$ (67-66-3) | - | Ex* | - | - | - |
| | Dichloroethane (ethylene dichloride / ethylidene dichloride) | $ClCH_2CH_2Cl$ / $CH_3CHCl_2$ (107-06-2/75-34-3) | - | Ex* | G | - | - |
| | Dichloromethane (DCM) (methylene chloride) | $CH_2Cl_2$ (75-09-2) | - | Ex* | - | - | - |
| | Perchloroethylene (tetrachloroethylene) | $C_2Cl_4$ (127-18-4) | - | Ex* | G | G | - |
| | 1,1,1-Trichloroethane (methyl chloroform, chlorothene) | $CH_3CCl_3$ (71-55-6) | - | Ex* | G | - | - |
| | Trichloroethylene (trichloroethene, TCE) | $Cl_2CCHCl$ (79-01-6) | - | Ex* | G | - | - |

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|---|---|---|---|---|---|---|---|
| Hydrocarbons | Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR) | N/A | - | Ex | Ex | Ex | - |
| | Benzene (benzol) | $C_6H_6$ (71-43-2) | - | Ex | Ex | - | - |
| | Cyclohexane | $C_6H_{12}$ (110-82-7) | - | Ex | Ex | - | - |
| | Gasoline (without Ethanol) (petrol) | N/A (8032-32-4) | - | Ex | Ex | Ex | - |
| | Heptane | $CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-7) | - | Ex | Ex | Ex | - |
| | Hexane | $CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3) | - | Ex | Ex | - | - |
| | Iso-octane (2,2,4-trimethylpentane) | $(CH_3)_3CCH_2CH(CH_3)_2$ (540-84-1) | - | Ex | Ex | Ex | - |
| | Kerosene | N/A (8008-20-6) | - | Ex | Ex | Ex | - |
| | Mesitylene (1,3,5-Trimethylbenzene ) | $C_6H_3(CH_3)_3$ (108-67-8) | - | Ex | Ex | Ex | - |
| | Mineral spirits / White spirits (Stoddard solvent) | N/A (8052-41-3) | - | Ex | Ex | Ex | - |
| | Naphtha | N/A (8030-30-6) | - | Ex | Ex | Ex | - |
| | Naphthalene (naphthalin, white tar) | $C_{10}H_8$ (91-20-3) | - | Ex | Ex | Ex | - |
| | Paraffin | N/A (8002-74-2) | - | Ex | Ex | Ex | - |

| | | |
|---|---|---|
| **Excellent** | **Ex** | no significant deterioration / barrier properties retained for greater than 52 weeks<br>*suitable for all applications including long term immersion* |
| **Good** | **G** | no significant deterioration / barrier properties retained for 12 - 52 weeks<br>*suitable for short-term immersion and general chemical contact* |
| **Moderate** | **M** | no significant deterioration / barrier properties retained for 1 - 12 weeks<br>*suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment* |
| **Poor** | **P** | significant deterioration / loss of barrier properties after 1 week or less<br>*not suitable for any application* |
| * | | Product must be post cured to deliver quoted chemical resistance |
| **Ex** | | **Bold** text highlights real life data obtained via chemical resistance testing |
| Ex | | Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents |

# CHEMICAL RESISTANCE OF BELZONA® 1392

FN10035

| | Chemical name (Synonym) | Chemical formula (CAS number) | Concentration | Chemical Resistance 20 ˚C 68 ˚F | 60 ˚C 140 ˚F | 90 ˚C 194 ˚F | Other |
|---|---|---|---|---|---|---|---|
| Hydrocarbons | Pentane | $CH_3CH_2CH_2CH_2CH_3$ (109-66-0) | - | Ex | - | - | - |
| | Toluene (methylbenzene, phenylmethane, toluol) | $C_6H_5CH_3$ (108-88-3) | - | Ex | Ex | **Ex** | - |
| | Styrene (vinylbenzene, phenylethene) | $C_6H_5CHCH_2$ (100-42-5) | - | Ex | Ex | G | - |
| | Xylene (dimethyl benzene, xylol) | $C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7) | - | Ex | Ex | **Ex** | - |
| Miscellaneous | Water | $H_2O$ (7732-18-5) | - | Ex | Ex | Ex | **120˚C 248˚F Ex** |
| | Nalco DVE4D002 Corrosion Inhibitor | N/A | - | Ex | Ex | - | - |
| | Nalco DVE4D006 Corrosion Inhibitor | N/A | - | Ex | Ex | - | - |
| | Nalco EC1317A Corrosion inhibitor | N/A | - | Ex | **Ex** | - | - |
| | Nalco EC6303A Oxygen Scavenger | N/A | - | Ex | Ex | - | - |
| | Nalco EC6481A Hydrate Inhibitor | N/A | - | Ex | Ex | - | - |
| | Nalco EC6622A Low Dosage Hydrate Inhibitor (LDHI) | N/A | - | Ex | **Ex** | - | - |
| | Nalco EC9356A Hydrogen Sulphide Scavenger | N/A | - | Ex | Ex | - | - |
| | Nalco O3VD123 Corrosion Inhibitor | N/A | - | Ex | Ex | - | - |

| | | |
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|---|---|---|---|---|---|---|---|
| Miscellaneous | Nalco Ultimer 7751 Flocculant Water Treatment | N/A | - | Ex | Ex | - | - |
| | Sour oil / Brine mix | N/A | - | Ex | Ex | Ex | **120˚C 248˚F Ex** |

| | | |
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