

# CHEMICAL RESISTANCE OF BELZONA® 5821

FN 10182



|   | Chemical name<br>(Synonym)                                    | Chemical formula<br>(CAS number)                           | Concentration | 20 °C<br>68 °F     | Other              |
|---|---|--|---------------|--------------------|--------------------|
| Inorganic Acids                           | Carbonic acid   | H <sub>2</sub> CO <sub>3</sub><br>(463-79-6)               | -             | Ex                 | -                  |
|   | Fluorosilicic acid  | H <sub>2</sub> SiF <sub>6</sub><br>(16961-83-4)            | -             | M                  | -                  |
|   | Hydrobromic acid  | HBr<br>(10035-10-6)  | 5%            | Ex                 | -                  |
|   | Hydrochloric acid   | HCl<br>(7647-01-0)   | 36%           | P                  | Pass 72 hrs in 36% |
|   |   |  | 20%           | M                  |                    |
|   |   |  | 10%           | G                  |                    |
|   |   |  | 5%            | Ex                 |                    |
|   | Nitric acid   | HNO <sub>3</sub><br>(7697-37-2)                            | 20%           | M                  | -                  |
|   |   |  | 10%           | G                  | -                  |
| 5%  |   |  | Ex            | -                  |                    |
| Nitrous acid                              | HNO <sub>2</sub><br>(7782-77-6)                               | 10%  | Ex            | -                  |                    |
| Oleum                                     |   | -  | P             | -                  |                    |
| Phosphoric acid<br>(orthophosphoric acid) | H <sub>3</sub> PO <sub>4</sub><br>(7664-38-2)                 | 85%  | P             | Pass 72 hrs in 85% |                    |
|   |   | 10%  | G             |                    |                    |
| Sulfuric acid                             | H <sub>2</sub> SO <sub>4</sub><br>(7664-93-9)                 | 98%  | P             | Pass 72 hrs in 50% |                    |
|   |   | 20%  | M             |                    |                    |
|   |   | 10%  | G             |                    |                    |
|   |   | 5%   | Ex            |                    |                    |
| Organic Acids                             | Acetic acid<br>(ethanoic acid)                                | CH <sub>3</sub> COOH<br>(64-19-7)                          | 20%           | P                  | Pass 72 hrs in 10% |
|   |   |  | 5%            | M                  |                    |
|   | Chlorosulfonic acid<br>(sulfurochloridic acid)                | HSO <sub>3</sub> Cl<br>(7790-94-5)                         | -             | M                  | -                  |
|   | Citric acid   | C <sub>6</sub> H <sub>8</sub> O <sub>7</sub><br>(77-92-9)  | -             | G                  | -                  |
|   | Cresylic acid<br>(cresol)                                     | C <sub>7</sub> H <sub>8</sub> O<br>(1319-77-3)             | -             | P                  | -                  |
|   | Formic acid<br>(methanoic acid)                               | HCOOH<br>(64-18-6)   | 20%           | P                  | -                  |
|   |   |  | 5%            | M                  | -                  |
| Lactic acid<br>(2-hydroxypropanoic acid)  | CH <sub>3</sub> CH(OH)(COOH)<br>(50-21-5/79-33-4/10326-41-7)  | 10%  | M             | -                  |                    |
| Phenol                                    | C <sub>6</sub> H <sub>5</sub> OH<br>(108-95-2)                | 80%  | P             | -                  |                    |
| Alcohols                                  | n-Butanol<br>(butyl alcohol)                                  | C <sub>4</sub> H <sub>9</sub> OH<br>(71-36-3)              | -             | Ex                 | -                  |
|   | Ethanol<br>(ethyl alcohol)                                    | CH <sub>3</sub> CH <sub>2</sub> OH<br>(64-17-5)            | -             | M                  | -                  |
|   | Ethylene glycol<br>(ethan-1,2-diol, monoethylene glycol, MEG) | (CH <sub>2</sub> OH) <sub>2</sub><br>(107-21-1)            | -             | Ex                 | -                  |
|   | Glycerol<br>(glycerine, propane-1,2,3-triol)                  | HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH<br>(56-81-5)    | -             | Ex                 | -                  |
|   | Higher alcohols   | C <sub>n</sub> H <sub>(2n+1)</sub> OH where n > 2          | -             | Ex                 | -                  |
|   | Methanol<br>(methyl alcohol)                                  | CH <sub>3</sub> OH<br>(67-56-1)                            | -             | P                  | Pass 72 hrs        |
|   | 2-Methoxyethanol  | C <sub>3</sub> H <sub>8</sub> O <sub>2</sub><br>(109-86-4) | -             | Ex                 | -                  |

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| 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  | Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.   |
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|------------------------|---|---|--------------------------|----------------------|------------------|
| Alcohols<br>continued  | Propan-1-ol<br>(Propyl alcohol)                       | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH<br>(71-23-8)                 | -                        | Ex                   | -                |
|                        | Propylene glycol<br>(1,2-Propanediol)                 | CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH<br>(57-55-6)                           | -                        | Ex                   | -                |
|                        | Secondary alcohols                                    | R <sub>1</sub> R <sub>2</sub> CHOH  | -                        | Ex                   | -                |
|                        | Tertiary alcohols                                     | R <sub>1</sub> R <sub>2</sub> R <sub>3</sub> COH                                | -                        | Ex                   | -                |
| Alkalis                | Ammonia   | NH <sub>3</sub><br>(7664-41-7)  | 20%<br>10%               | Ex<br>Ex             | -<br>-           |
|                        | Barium hydroxide                                      | Ba(OH) <sub>2</sub><br>(17194-00-2)   | -                        | Ex                   | -                |
|                        | Calcium hydroxide<br>(lime water)                     | Ca(OH) <sub>2</sub><br>(1305-62-0)  | -                        | Ex                   | -                |
|                        | Magnesium hydroxide<br>(milk of magnesia)             | Mg(OH) <sub>2</sub><br>(1309-42-8)  | -                        | Ex                   | -                |
|                        | Potassium hydroxide<br>(caustic potash)               | KOH<br>(1310-58-3)  | 40%<br>20%<br>10%        | Ex<br>Ex<br>Ex       | -<br>-<br>-      |
|                        | Sodium hydroxide<br>(caustic soda)                    | NaOH<br>(1310-73-2)   | 50%<br>40%<br>20%<br>10% | Ex<br>Ex<br>Ex<br>Ex | -<br>-<br>-<br>- |
| Amines & Amides        | Aniline<br>(Phenylamine)                              | C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub><br>(62-53-3)                      | -                        | M                    | -                |
|                        | Diethanolamine  | HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub><br>(111-42-2)               | -                        | Ex                   | -                |
|                        | Diethylamine  | CH <sub>3</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>3</sub><br>(109-89-7) | -                        | P                    | -                |
|                        | Dimethylformamide                                     | (CH <sub>3</sub> ) <sub>2</sub> NC(O)H<br>(68-12-2)                             | -                        | P                    | -                |
|                        | Methylamine (25% in water)                            | CH <sub>3</sub> NH <sub>2</sub><br>(74-89-5)                                    | -                        | G                    | -                |
|                        | Pyridine  | C <sub>5</sub> H <sub>5</sub> N<br>(110-86-1)                                   | -                        | P                    | -                |
|                        | Triethanolamine (TEA)<br>(2,2',2''-nitrilotriethanol) | N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub><br>(102-71-6)                | -                        | Ex                   | -                |
| Beverages & Foodstuffs | Beer  |   | -                        | Ex                   | -                |
|                        | Cider   |   | -                        | Ex                   | -                |
|                        | Citrus juices   |   | -                        | Ex                   | -                |
|                        | Fermentation liquor                                   |   | -                        | Ex                   | -                |
|                        | Glucose   |   | -                        | Ex                   | -                |
|                        | Milk  |   | -                        | G                    | -                |
|                        | Sugar solution  |   | -                        | Ex                   | -                |
|                        | Vinegar   |   | -                        | M                    | -                |
|                        | Whisky and Wine                                       |   | -                        | Ex                   | -                |

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

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| Halocarbons                         | Carbon tetrachloride   | CCl <sub>4</sub><br>(56-23-5)   | -             | G              | -     |
|                                     | Chlorobenzene  | C <sub>6</sub> H <sub>5</sub> Cl<br>(108-90-7)  | -             | M              | -     |
|                                     | Chloroform   | CHCl <sub>3</sub><br>(67-66-3)  | -             | G              | -     |
|                                     | Dry cleaning fluids  |   | -             | G              | -     |
|                                     | Methylene chloride<br>(dichloromethane)  | CH <sub>2</sub> Cl <sub>2</sub><br>(75-09-2)  | -             | P              | -     |
|                                     | Perchloroethylene<br>(tetrachloroethylene)   | Cl <sub>2</sub> C=CCl <sub>2</sub><br>(127-18-4)  | -             | G              | -     |
|                                     | 1,1,1, - Trichloroethane<br>(methyl chloroform)  | CH <sub>3</sub> CCl <sub>3</sub><br>(71-55-6)   | -             | G              | -     |
| Hydrocarbons                        | Aviation fuel<br>(AVCAT, AVGAS, AVTAG, AVTUR)  | N/A   | -             | Ex             | -     |
|                                     | Benzene<br>(benzol)  | C <sub>6</sub> H <sub>6</sub><br>(71-43-2)  | -             | M              | -     |
|                                     | Cyclohexane  | C <sub>6</sub> H <sub>12</sub><br>(110-82-7)  | -             | G              | -     |
|                                     | Gasoline<br>(Petrol)   |   | -             | G              | -     |
|                                     | Heptane  | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(142-82-5) | -             | Ex             | -     |
|                                     | Hexane   | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(110-54-3)                 | -             | Ex             | -     |
|                                     | Iso-octane<br>(2,2,4-trimethylpentane)   | (CH <sub>3</sub> ) <sub>3</sub> CCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub><br>(540-84-1)                              | -             | Ex             | -     |
|                                     | Kerosene   | N/A<br>(8008-20-6)  | -             | Ex             | -     |
|                                     | Paraffin   | N/A<br>(8002-74-2)  | -             | Ex             | -     |
|                                     | Pentane  | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(109-66-0)                                 | -             | Ex             | -     |
|                                     | Styrene  | C <sub>6</sub> H <sub>5</sub> CH=CH <sub>2</sub><br>(100-42-5)  | -             | G              | -     |
|                                     | Toluene<br>(methylbenzene, phenylmethane, toluol)  | C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub><br>(108-88-3)   | -             | P              | -     |
|                                     | White Spirit<br>(Stoddard solvent, Mineral spirits)  | (8052-41-3)   | -             | Ex             | -     |
| Xylene<br>(dimethyl benzene, xylol) | C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub><br>(95-47-6/108-38-3/106-42-3/1330-20-7) | -   | M             | -              |       |
| Ketones                             | Acetone  | (CH <sub>3</sub> ) <sub>2</sub> CO<br>(67-64-1)   | -             | M              | -     |
|                                     | Methyl ethyl ketone<br>(MEK, butanone)   | CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub><br>(78-93-3)  | -             | M              | -     |
| Miscellaneous                       | Bleach   |   | -             | M              | -     |
|                                     | Brake fluid  |   | -             | Ex             | -     |
|                                     | Drilling mud   |   | -             | Ex             | -     |
|                                     | Emulsion paint   |   | -             | Ex             | -     |
|                                     | Fertilizer solutions   |   | -             | Ex             | -     |
|                                     | Grease   |   | -             | Ex             | -     |

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

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| Salts continued                               | Calcium bisulfite                                  | Ca(HSO <sub>3</sub> ) <sub>2</sub><br>(13780-03-5)                               | -             | Ex             | -     |
|   | Calcium carbonate                                  | CaCO <sub>3</sub><br>(471-34-1)  | -             | Ex             | -     |
|   | Calcium chloride                                   |  | -             | Ex             | -     |
|   | Calcium hypochlorite                               | Ca(ClO) <sub>2</sub><br>(7778-54-3)  | -             | Ex             | -     |
|   | Calcium sulphate                                   | CaSO <sub>4</sub><br>(7778-18-9)   | -             | Ex             | -     |
|   | Chrome alum  | KCr(SO <sub>4</sub> ) <sub>2</sub><br>(10141-00-1)                               | -             | Ex             | -     |
|   | Copper acetate                                     | Cu(CH <sub>3</sub> COO) <sub>2</sub><br>(142-71-2)                               | -             | Ex             | -     |
|   | Copper chloride                                    | CuCl <sub>2</sub><br>(7447-39-4)   | -             | Ex             | -     |
|   | Copper nitrate                                     | Cu(NO <sub>3</sub> ) <sub>2</sub><br>(3251-23-8)                                 | -             | Ex             | -     |
|   | Copper sulphate                                    | CuSO <sub>4</sub><br>(7758-98-7)   | -             | Ex             | -     |
|   | Ferric chloride (dry)                              | FeCl <sub>3</sub><br>(7705-08-0)   | -             | Ex             | -     |
|   | Ferric nitrate                                     | Fe(NO <sub>3</sub> ) <sub>3</sub><br>(10421-48-4)                                | -             | Ex             | -     |
|   | Ferric sulfate                                     | Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub><br>(10028-22-5)                  | -             | Ex             | -     |
|   | Ferrous chloride                                   | FeCl <sub>2</sub><br>(7758-94-3)   | -             | Ex             | -     |
|   | Ferrous sulfate                                    | FeSO <sub>4</sub><br>(7720-78-7)   | -             | G              | -     |
|   | Lead acetate                                       | Pb(CH <sub>3</sub> COO) <sub>2</sub><br>(301-04-2)                               | -             | Ex             | -     |
|   | Magnesium bisulfate                                | Mg(HSO <sub>4</sub> ) <sub>2</sub><br>(10028-26-9)                               | -             | Ex             | -     |
|   | Magnesium chloride                                 | MgCl <sub>2</sub><br>(7786-30-3)   | -             | Ex             | -     |
|   | Magnesium sulphate<br>(Epsom salt)                 | MgSO <sub>4</sub><br>(7487-88-9)   | -             | Ex             | -     |
|   | Mercuric chloride                                  | HgCl <sub>2</sub><br>(7487-94-7)   | -             | Ex             | -     |
|   | Mercuric cyanide                                   | Hg(CN) <sub>2</sub><br>(592-04-1)  | -             | Ex             | -     |
|   | Nickel ammonium sulfate                            | (NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub><br>(7785-20-8) | -             | Ex             | -     |
|   | Nickel chloride                                    | NiCl <sub>2</sub><br>(7718-54-9)   | -             | Ex             | -     |
|   | Nickel nitrate                                     | Ni(NO <sub>3</sub> ) <sub>2</sub><br>(13138-45-9)                                | -             | Ex             | -     |
| Nickel sulfate                                | NiSO <sub>4</sub><br>(7786-81-4)                   | -  | Ex            | -              |       |
| Potassium aluminium sulphate<br>(potash alum) | KAl(SO <sub>4</sub> ) <sub>2</sub><br>(10043-67-1) | -  | Ex            | -              |       |
| Potassium bisulfite                           | KHSO <sub>3</sub><br>(7773-03-7)                   | -  | 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  | Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.   |
| *         |    | Product must be post cured to deliver quoted chemical resistance   |
| 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. |

# CHEMICAL RESISTANCE OF BELZONA® 5821

FN 10182



|                 | Chemical name<br>(Synonym)     | Chemical formula<br>(CAS number)                             | Concentration | 20 °C<br>68 °F | Other |
|-----------------|--------------------------------|--|---------------|----------------|-------|
| Salts continued | Potassium bromide              | KBr<br>(7758-02-3)   | -             | Ex             | -     |
|                 | Potassium carbonate            | K <sub>2</sub> CO <sub>3</sub><br>(584-08-7)                 | -             | Ex             | -     |
|                 | Potassium chlorate             | KClO <sub>3</sub><br>(3811-04-9)                             | -             | Ex             | -     |
|                 | Potassium chloride             | KCl<br>(7447-40-7)   | -             | Ex             | -     |
|                 | Potassium cyanide              | KCN<br>(151-50-8)  | -             | Ex             | -     |
|                 | Potassium dichromate           | K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub><br>(7778-50-9) | -             | Ex             | -     |
|                 | Potassium diphosphate          | K <sub>2</sub> HPO <sub>4</sub><br>(7758-11-4)               | -             | Ex             | -     |
|                 | Potassium ferricyanide         | K <sub>3</sub> [Fe(CN) <sub>6</sub> ]<br>(13746-66-2)        | -             | Ex             | -     |
|                 | Potassium ferrocyanide         | K <sub>4</sub> [Fe(CN) <sub>6</sub> ]<br>(13943-58-3)        | -             | Ex             | -     |
|                 | Potassium iodide               | KI<br>(7681-11-0)  | -             | Ex             | -     |
|                 | Potassium nitrate              | KNO <sub>3</sub><br>(7757-79-1)                              | -             | Ex             | -     |
|                 | Potassium permanganate         | KMnO <sub>4</sub><br>(7722-64-7)                             | -             | Ex             | -     |
|                 | Potassium sulfate              | K <sub>2</sub> SO <sub>4</sub><br>(7778-80-5)                | -             | Ex             | -     |
|                 | Potassium sulfide              | K <sub>2</sub> S<br>(1059-82-5)                              | -             | Ex             | -     |
|                 | Potassium sulphite             | K <sub>2</sub> SO <sub>3</sub><br>(10117-38-1)               | -             | Ex             | -     |
|                 | Silver nitrate                 | AgNO <sub>3</sub><br>(7761-88-8)                             | -             | Ex             | -     |
|                 | Sodium acetate                 | CH <sub>3</sub> COONa<br>(127-09-3)                          | -             | Ex             | -     |
|                 | Sodium aluminate               | NaAlO <sub>2</sub><br>(1302-42-7)                            | -             | Ex             | -     |
|                 | Sodium bicarbonate             | NaHCO <sub>3</sub><br>(144-55-8)                             | -             | Ex             | -     |
|                 | Sodium bisulfate               | NaHSO <sub>4</sub><br>(7681-38-1)                            | -             | Ex             | -     |
|                 | Sodium bisulfite               | NaHSO <sub>3</sub><br>(7631-90-5)                            | -             | Ex             | -     |
|                 | Sodium borate<br>(borax)       | Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub><br>(1303-96-4) | -             | Ex             | -     |
|                 | Sodium bromide                 | NaBr<br>(7647-15-6)  | -             | Ex             | -     |
|                 | Sodium carbonate<br>(soda ash) | Na <sub>2</sub> CO <sub>3</sub><br>(497-19-8)                | -             | Ex             | -     |
|                 | Sodium chloride                | NaCl<br>(7647-14-5)  | -             | Ex             | -     |
|                 | Sodium chromate                | Na <sub>2</sub> CrO <sub>4</sub><br>(7775-11-3)              | -             | Ex             | -     |
|                 | Sodium cyanide                 | NaCN<br>(143-33-9)   | -             | Ex             | -     |
|                 | Sodium fluoride                | NaF<br>(7681-49-4)   | -             | Ex             | -     |

|           |    |  |
|-----------|----|--|
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| 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  | Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.   |
| *         |    | Product must be post cured to deliver quoted chemical resistance   |
| 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. |

# CHEMICAL RESISTANCE OF BELZONA® 5821

FN 10182



|                 | Chemical name<br>(Synonym)               | Chemical formula<br>(CAS number)                  | Concentration | 20 °C<br>68 °F | Other |
|-----------------|--|---|---------------|----------------|-------|
| Salts continued | Sodium hypochlorite<br>(bleach)          | NaClO<br>(7681-52-9)                              | 15%           | M              | -     |
|                 | Sodium metaphosphate                     | (NaPO <sub>3</sub> ) <sub>6</sub><br>(10124-56-8) | -             | Ex             | -     |
|                 | Sodium metasilicate<br>(sodium silicate) | Na <sub>2</sub> SiO <sub>3</sub><br>(6834-92-0)   | -             | Ex             | -     |
|                 | Sodium nitrate                           | NaNO <sub>3</sub><br>(7631-99-4)                  | -             | Ex             | -     |
|                 | Sodium phosphate (dibasic)               | Na <sub>2</sub> HPO <sub>4</sub><br>(7558-79-4)   | -             | Ex             | -     |
|                 | Sodium phosphate (tribasic)              | Na <sub>3</sub> PO <sub>4</sub><br>(7601-54-9)    | -             | Ex             | -     |
|                 | Sodium sulfate                           | Na <sub>2</sub> SO <sub>4</sub><br>(7757-82-6)    | -             | Ex             | -     |
|                 | Sodium sulfide                           | Na <sub>2</sub> S<br>(1313-82-2)                  | -             | Ex             | -     |
|                 | Stannous chloride<br>(tin chloride)      | SnCl <sub>2</sub><br>(7772-99-8)                  | -             | Ex             | -     |
|                 | Zinc chloride                            | ZnCl <sub>2</sub><br>(7646-85-7)                  | -             | Ex             | -     |
|                 | Zinc hydrosulfite                        | ZnS <sub>2</sub> O <sub>4</sub><br>(7779-86-4)    | -             | Ex             | -     |
| Zinc sulfate    | ZnSO <sub>4</sub><br>(7733-02-0)         | -   | Ex            | -              |       |

|           |    |  |
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