

# CHEMICAL RESISTANCE OF BELZONA® 1392

FN10035



|                            |   |   | Chemical Resistance |        |        |       |   |
|----------------------------|---|---|---------------------|--------|--------|-------|---|
| Chemical name<br>(Synonym) | Chemical formula<br>(CAS number)          | Concentration                                 | 20 °C               | 60 °C  | 90 °C  | Other |   |
|                            |   |   | 68 °F               | 140 °F | 194 °F |       |   |
| Inorganic Acids            | Carbonic acid                             | H <sub>2</sub> CO <sub>3</sub><br>(463-79-6)  | -                   | Ex     | Ex     | Ex    | - |
|                            | Hydrochloric acid                         | HCl<br>(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 <sub>3</sub><br>(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 <sub>2</sub><br>(7782-77-6)               | 20%                 | Ex*    | M      | P     | - |
|                            | Phosphoric acid<br>(orthophosphoric acid) | H <sub>3</sub> PO <sub>4</sub><br>(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 <sub>2</sub> SO <sub>4</sub><br>(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     | -     |   |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> text highlights real life data obtained via chemical resistance testing  |
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|               | Chemical name<br>(Synonym)                          | Chemical formula<br>(CAS number)  | Concentration                       | 20 °C               | 60 °C  | 90 °C  | Other |
|               |   |   |                                     | 68 °F               | 140 °F | 194 °F |       |
| Organic Acids | Acetic acid<br>(ethanoic acid)                      | CH <sub>3</sub> COOH<br><br>(64-19-7)   | 100%                                | M*                  | P      | P      | -     |
|               |   |   | 70%                                 | M*                  | P      | P      | -     |
|               |   |   | 50%                                 | M*                  | P      | P      | -     |
|               |   |   | 20%                                 | M                   | 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<br>(propenoic acid)  | CH <sub>2</sub> CHCOOH<br>(79-10-7) | -                   | M*     | P      | P     |
|               | Cresol<br>(methylphenol, cresylic acid)             | CH <sub>3</sub> (C <sub>6</sub> H <sub>4</sub> )OH<br>(95-48-7/108-39-4/106-44-5/1319-77-3) | -                                   | M*                  | P      | P      | -     |
|               | Benzenediol<br>(hydroquinone, resorcinol, catechol) | C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub><br>(120-80-9)                               | -                                   | M*                  | P      | P      | -     |
|               | Formic acid<br>(methanoic acid)                     | HCOOH<br>(64-18-6)  | 20%                                 | P*                  | P      | P      | -     |
|               |   |   | 10%                                 | M*                  | P      | P      | -     |
|               | Lactic acid<br>(2-hydroxypropanoic acid)            | CH <sub>3</sub> CH(OH)(COOH)<br>(50-21-5/79-33-4/10326-41-7)                                | 85%                                 | M*                  | P      | P      | -     |
|               |   |   | 10%                                 | G*                  | G      | M      | -     |
|               | Maleic acid<br>(butenedioic acid)                   | (CHCOOH) <sub>2</sub><br>(110-16-7)   | -                                   | M*                  | P      | P      | -     |
|               | Methacrylic acid (MAA)<br>(methylpropanoic acid)    | CH <sub>2</sub> C(CH <sub>3</sub> )(COOH)<br>(79-41-4)                                      | -                                   | Ex*                 | G      | P      | -     |

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| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
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| Chemical name<br>(Synonym)      |  | Chemical formula<br>(CAS number)  | Concentration | 20 °C<br>68 °F      | 60 °C<br>140 °F | 90 °C<br>194 °F | Other                  |
| Organic Acids                   | Phenol<br>(hydroxybenzene)   | C <sub>6</sub> H <sub>5</sub> OH<br>(108-95-2)                                    | 80%           | M*                  | P               | P               | -                      |
|                                 | Stearic acid<br>(octadecanoic acid)  | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> COOH<br>(57-11-4)                | -             | Ex*                 | G               | G               | -                      |
|                                 | Tannic acid  | C <sub>76</sub> H <sub>52</sub> O <sub>46</sub><br>(1401-55-4)                    | -             | Ex*                 | G               | G               | -                      |
| Alcohols, Aldehydes and Ketones | Acetone<br>(propanone)   | (CH <sub>3</sub> ) <sub>2</sub> CO<br>(67-64-1)                                   | -             | Ex*                 | -               | -               | 55 °C<br>131 °F<br>Ex* |
|                                 | Amyl alcohol   | C <sub>5</sub> H <sub>11</sub> OH<br>(71-41-0)                                    | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | n-Butanol<br>(butyl alcohol)   | C <sub>4</sub> H <sub>9</sub> OH<br>(71-36-3)                                     | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | Ethanol<br>(ethyl alcohol)   | CH <sub>3</sub> CH <sub>2</sub> OH<br>(64-17-5)                                   | -             | Ex                  | Ex              | -               | -                      |
|                                 | Ethyl cellosolve<br>(2-ethoxyethanol, ethylene glycol monoethyl ether, ethyl glycol) | CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH<br>(110-80-5) | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | Ethylene glycol<br>(ethan-1,2-diol, monoethylene glycol, MEG)                        | (CH <sub>2</sub> OH) <sub>2</sub><br>(107-21-1)                                   | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | Formaldehyde<br>(methanal)   | CH <sub>2</sub> O<br>(50-00-0)  | 37%           | Ex*                 | G               | G               | -                      |
|                                 | Glycerol<br>(glycerine, propane-1,2,3-triol)   | HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH<br>(56-81-5)                           | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | n-Hexanol<br>(hexyl alcohol)   | C <sub>6</sub> H <sub>13</sub> OH<br>(111-27-3)                                   | -             | Ex                  | Ex              | Ex              | -                      |
|                                 | Higher alcohols  | C <sub>n</sub> H <sub>(2n+1)</sub> OH where n > 2                                 | -             | Ex                  | Ex              | Ex              | -                      |

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|                                 |  |   |                     | 68 °F | 140 °F | 194 °F |                       |
| Alcohols, Aldehydes and Ketones | Isopropyl alcohol (IPA)<br>(isopropanol, propan-2-ol)                                    | CH <sub>3</sub> CH(OH)CH <sub>3</sub><br>(67-63-0)  | -                   | Ex    | Ex     | -      | -                     |
|                                 | Isobutyl alcohol (IBA)<br>(isobutanol, 2-methylpropan-1-ol)                              | (CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> OH<br>(78-83-1)   | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Methanol<br>(methyl alcohol)   | CH <sub>3</sub> OH<br>(67-56-1)   | -                   | Ex*   | Ex     | -      | -                     |
|                                 | Methanol solution (aqueous)  | CH <sub>3</sub> OH <sub>(aq)</sub><br>(67-56-1)   | 55%                 | Ex*   | Ex     | -      | 79 °C<br>174 °F<br>Ex |
|                                 | Methyl cellosolve<br>(2-methoxyethanol, ethylene glycol monomethyl ether, methyl glycol) | CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OH<br>(109-86-4)   | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Methyl ethyl ketone (MEK)<br>(2-butanone, methyl acetone)                                | CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub><br>(78-93-3)  | -                   | Ex*   | Ex     | -      | -                     |
|                                 | Methyl pentyl ketone<br>(methyl n-amyl ketone, heptan-2-one)                             | CH <sub>3</sub> COCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(110-43-0)                                       | -                   | Ex    | Ex     | G      | -                     |
|                                 | N-methyl-2-pyrrolidinone (NMP)   | C <sub>5</sub> H <sub>9</sub> NO<br>(872-50-4)  | -                   | G*    | P      | P      | -                     |
|                                 | Propan-1-ol<br>(Propyl alcohol)  | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH<br>(71-23-8)   | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Propylene glycol<br>(1,2-Propanediol)  | CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH<br>(57-55-6)   | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Secondary alcohols   | R <sub>1</sub> R <sub>2</sub> CHOH  | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Tertiary alcohols  | R <sub>1</sub> R <sub>2</sub> R <sub>3</sub> COH  | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Triethylene glycol<br>(triglycol)  | HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH<br>(112-27-6)                                  | -                   | Ex    | Ex     | Ex     | -                     |
|                                 | Tetraethylene glycol<br>(tetraglycol)  | HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH<br>(112-60-7) | -                   | Ex    | Ex     | Ex     | -                     |

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| Excellent | Ex | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
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|                 |   |   |               | 68 °F               | 140 °F | 194 °F |       |
| Alkalis / Bases | Ammonia solution<br>(ammonium hydroxide)                    | NH <sub>3</sub> (aq)<br><br>(1336-21-6)   | 30%           | M*                  | -      | -      | -     |
|                 |   |   | 20%           | Ex*                 | -      | -      | -     |
|                 |   |   | 10%           | Ex*                 | -      | -      | -     |
|                 | Barium hydroxide  | Ba(OH) <sub>2</sub><br><br>(17194-00-2)   | -             | Ex                  | Ex     | Ex     | -     |
|                 | Calcium hydroxide<br>(lime water)                           | Ca(OH) <sub>2</sub><br><br>(1305-62-0)  | -             | Ex                  | Ex     | Ex     | -     |
|                 | Magnesium hydroxide<br>(milk of magnesia)                   | Mg(OH) <sub>2</sub><br><br>(1309-42-8)  | -             | Ex                  | Ex     | Ex     | -     |
| Amines & Amides | Potassium hydroxide<br>(caustic potash)                     | KOH<br><br>(1310-58-3)  | 40%           | Ex                  | Ex     | Ex     | -     |
|                 |   |   | 20%           | Ex                  | Ex     | Ex     | -     |
|                 |   |   | 10%           | Ex                  | Ex     | Ex     | -     |
|                 | Sodium hydroxide<br>(caustic soda)                          | NaOH<br><br>(1310-73-2)   | 50%           | Ex                  | Ex     | Ex     | -     |
|                 |   |   | 40%           | Ex                  | Ex     | Ex     | -     |
|                 |   |   | 20%           | Ex                  | Ex     | Ex     | -     |
| 10%             | Ex  | Ex  | Ex            | -                   |        |        |       |
| Amines & Amides | Aniline<br>(phenylamine)                                    | C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub><br><br>(62-53-3)  | -             | Ex*                 | G      | M      | -     |
|                 | Dibutylamine  | HN(CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br><br>(111-92-2)   | -             | G*                  | M      | P      | -     |
|                 | Diethanolamine (DEA)<br>(2,2'-iminodiethanol)               | HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub><br><br>(111-42-2)                                 | -             | Ex                  | Ex     | Ex     | -     |
|                 | Diethylene glycolamine (DGA)<br>(2-(2-aminoethoxy) ethanol) | H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH<br><br>(929-06-6) | -             | Ex                  | Ex     | Ex     | -     |
|                 | N-Methyl diethanolamine (MDEA)                              | CH <sub>3</sub> N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub><br><br>(105-59-9)                  | -             | Ex                  | Ex     | Ex     | -     |

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|                   |   |  |               | 68 °F               | 140 °F | 194 °F |       |
| Amines & Amides   | N-Methylethanolamine<br>(2-methylaminoethanol)  | CH <sub>3</sub> NHCH <sub>2</sub> CH <sub>2</sub> OH<br>(109-83-1)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Monoethanolamine (MEA)<br>(2-aminoethanol)  | H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH<br>(141-43-5)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Pyridine  | C <sub>5</sub> H <sub>5</sub> N<br>(110-86-1)  | -             | M*                  | P      | P      | -     |
|                   | Sulfinol solution<br>(50% diisopropanolamine, 25% tetramethylene sulphone, 25% water) | N/A  | -             | Ex                  | Ex     | Ex     | -     |
|                   | 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                  | Ex     | Ex     | -     |
| Esters and Ethers | Butyl acetate<br>(butyl ethanoate)  | CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(123-86-4)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Butyl ether<br>(dibutyl ether)  | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> O CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(142-96-1)                        | -             | Ex                  | Ex     | Ex     | -     |
|                   | dibutyl adipate<br>(adipic acid dibutyl ester, Dibutyl hexanedioate)                  | (CH <sub>2</sub> CH <sub>2</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br>(105-99-7)                                     | -             | Ex                  | Ex     | Ex     | -     |
|                   | Dibutyl phthalate (DBP)<br>(phthalic acid dibutyl ester)                              | C <sub>6</sub> H <sub>4</sub> (C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br>(84-74-2)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Dibutyl sebacate (DBS)<br>(sebacic acid dibutyl ester)                                | (CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br>(109-43-3)     | -             | Ex                  | Ex     | Ex     | -     |
|                   | Diethyl ether<br>(ether, ethoxyethane)  | CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>3</sub><br>(60-29-7)  | -             | Ex                  | -      | -      | -     |
|                   | Dioctyl adipate (DOA)<br>(bis(2-ethylhexyl) adipate)                                  | (CH <sub>2</sub> CH <sub>2</sub> C(O)O(CH <sub>2</sub> ) <sub>7</sub> CH <sub>3</sub> ) <sub>2</sub><br>(103-23-1)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Dioctyl phthalate (DOP)<br>(bis(2-ethylhexyl) phthalate, DEHP)                        | C <sub>6</sub> H <sub>4</sub> (C(O)OCH <sub>2</sub> CH(CH <sub>2</sub> CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br>(117-81-7)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Dioctyl sebacate<br>(di(2-ethylhexyl) sebacate)                                       | ((CH <sub>2</sub> ) <sub>4</sub> C(O)OCH <sub>2</sub> CH(CH <sub>2</sub> CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub><br>(122-62-3) | -             | Ex                  | Ex     | Ex     | -     |

|           |    |  |
|-----------|----|--|
| Excellent | Ex | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| Good      | G  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| Moderate  | M  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| Poor      | P  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *         |    | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| Ex        |    | <b>Bold</b> 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  |
| 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® 1392

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|                   |  |   |               | Chemical Resistance |        |        |       |
|-------------------|--|---|---------------|---------------------|--------|--------|-------|
|                   | Chemical name<br>(Synonym)                                   | Chemical formula<br>(CAS number)  | Concentration | 20 °C               | 60 °C  | 90 °C  | Other |
|                   |  |   |               | 68 °F               | 140 °F | 194 °F |       |
| Esters and Ethers | Ethyl acetate<br>(ethyl ethanoate, acetic ester)             | CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>3</sub><br>(141-78-6)  | -             | Ex*                 | Ex     | -      | -     |
|                   | Ethyl 3-ethoxypropionate<br>(EEP solvent)                    | CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> C(O)OCH <sub>2</sub> CH <sub>3</sub><br>(763-69-9) | -             | Ex                  | Ex     | Ex     | -     |
|                   | Isopropyl ether<br>(diisopropyl ether)                       | (CH <sub>3</sub> ) <sub>2</sub> CHOCH(CH <sub>3</sub> ) <sub>2</sub><br>(108-20-3)                                  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Pentyl acetate<br>(amyl acetate, pentyl ethanoate, pear oil) | CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(628-63-7)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Propylene glycol monomethyl ether acetate<br>(PMA)           | CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )OC(O)CH <sub>3</sub><br>(108-65-6)                             | -             | Ex                  | Ex     | Ex     | -     |
| Gases             | Butane   | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub><br>(106-97-8)                                       | -             | Ex                  | Ex     | Ex     | -     |
|                   | Carbon dioxide   | CO <sub>2</sub><br>(124-38-9)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Carbon monoxide  | CO<br>(630-08-0)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Chlorine (dry)   | Cl <sub>2</sub><br>(7782-50-5)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Ethane   | C <sub>2</sub> H <sub>6</sub><br>(74-84-0)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Hydrogen   | H <sub>2</sub><br>(1333-74-0)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Hydrogen sulphide  | H <sub>2</sub> S<br>(7783-06-4)   | -             | Ex                  | Ex     | Ex     | -     |
|                   | Methane<br>(natural gas)                                     | CH <sub>4</sub><br>(74-82-8)  | -             | Ex                  | Ex     | Ex     | -     |
|                   | Nitrogen   | N <sub>2</sub><br>(7727-37-9)   | -             | Ex                  | Ex     | Ex     | -     |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> 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  |
| 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® 1392

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|                            |   |  |               | Chemical Resistance |                 |                 |       |
|----------------------------|---|--|---------------|---------------------|-----------------|-----------------|-------|
| Chemical name<br>(Synonym) |   | Chemical formula<br>(CAS number)   | Concentration | 20 °C<br>68 °F      | 60 °C<br>140 °F | 90 °C<br>194 °F | Other |
| Gases                      | Nitrous oxide<br>(dinitrogen monoxide)                          | N <sub>2</sub> O<br>(10024-97-2)   | -             | Ex                  | Ex              | Ex              | -     |
|                            | Ozone (dry)   | O <sub>3</sub><br>(10028-15-6)   | -             | Ex                  | Ex              | Ex              | -     |
|                            | Ozone (wet)   | O <sub>3</sub><br>(10028-15-6)   | -             | G*                  | M               | M               | -     |
|                            | Sulphur dioxide   | SO <sub>2</sub><br>(7446-09-5)   | -             | Ex                  | Ex              | Ex              | -     |
|                            | Sulphur trioxide<br>(sulphuric anhydride)                       | SO <sub>3</sub><br>(7446-11-9)   | -             | Ex                  | Ex              | Ex              | -     |
| Halocarbons                | Carbon tetrachloride<br>(tetrachloromethane)                    | CCl <sub>4</sub><br>(56-23-5)  | -             | Ex*                 | G               | -               | -     |
|                            | Chlorobenzene<br>(benzene chloride, phenyl chloride)            | C <sub>6</sub> H <sub>5</sub> Cl<br>(108-90-7)   | -             | Ex*                 | G               | G               | -     |
|                            | Chloroform<br>(trichloromethane)                                | HCCL <sub>3</sub><br>(67-66-3)   | -             | Ex*                 | -               | -               | -     |
|                            | Dichloroethane<br>(ethylene dichloride / ethylidene dichloride) | ClCH <sub>2</sub> CH <sub>2</sub> Cl / CH <sub>3</sub> CHCl <sub>2</sub><br>(107-06-2/75-34-3) | -             | Ex*                 | G               | -               | -     |
|                            | Dichloromethane (DCM)<br>(methylene chloride)                   | CH <sub>2</sub> Cl <sub>2</sub><br>(75-09-2)   | -             | Ex*                 | -               | -               | -     |
|                            | Perchloroethylene<br>(tetrachloroethylene)                      | C <sub>2</sub> Cl <sub>4</sub><br>(127-18-4)   | -             | Ex*                 | G               | G               | -     |
|                            | 1,1,1-Trichloroethane<br>(methyl chloroform, chlorothene)       | CH <sub>3</sub> CCl <sub>3</sub><br>(71-55-6)  | -             | Ex*                 | G               | -               | -     |
|                            | Trichloroethylene<br>(trichloroethene, TCE)                     | Cl <sub>2</sub> CCHCl<br>(79-01-6)   | -             | Ex*                 | G               | -               | -     |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> 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  |
| 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® 1392

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|              |   |   | Chemical Resistance |       |        |        |       |
|--------------|---|---|---------------------|-------|--------|--------|-------|
|              | Chemical name<br>(Synonym)                            | Chemical formula<br>(CAS number)  | Concentration       | 20 °C | 60 °C  | 90 °C  | Other |
|              |   |   |                     | 68 °F | 140 °F | 194 °F |       |
| Hydrocarbons | Aviation fuel<br>(AVCAT, AVGAS, AVTAG, AVTUR)         | N/A   | -                   | Ex    | Ex     | Ex     | -     |
|              | Benzene<br>(benzol)                                   | C <sub>6</sub> H <sub>6</sub><br>(71-43-2)  | -                   | Ex    | Ex     | -      | -     |
|              | Cyclohexane   | C <sub>6</sub> H <sub>12</sub><br>(110-82-7)  | -                   | Ex    | Ex     | -      | -     |
|              | Gasoline (without Ethanol)<br>(petrol)                | N/A<br>(8032-32-4)  | -                   | Ex    | Ex     | Ex     | -     |
|              | 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    | Ex     | 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    | 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    | Ex     | Ex     | -     |
|              | Kerosene  | N/A<br>(8008-20-6)  | -                   | Ex    | Ex     | Ex     | -     |
|              | Mesitylene<br>(1,3,5-Trimethylbenzene)                | C <sub>6</sub> H <sub>3</sub> (CH <sub>3</sub> ) <sub>3</sub><br>(108-67-8)   | -                   | Ex    | Ex     | Ex     | -     |
|              | Mineral spirits / White spirits<br>(Stoddard solvent) | N/A<br>(8052-41-3)  | -                   | Ex    | Ex     | Ex     | -     |
|              | Naphtha   | N/A<br>(8030-30-6)  | -                   | Ex    | Ex     | Ex     | -     |
|              | Naphthalene<br>(naphthalin, white tar)                | C <sub>10</sub> H <sub>8</sub><br>(91-20-3)   | -                   | Ex    | Ex     | Ex     | -     |
|              | Paraffin  | N/A<br>(8002-74-2)  | -                   | Ex    | Ex     | Ex     | -     |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> 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  |
| 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® 1392

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|                                      |  |  |               | Chemical Resistance |                 |                 |                      |
|--------------------------------------|--|--|---------------|---------------------|-----------------|-----------------|----------------------|
|                                      | Chemical name<br>(Synonym)                           | Chemical formula<br>(CAS number)   | Concentration | 20 °C<br>68 °F      | 60 °C<br>140 °F | 90 °C<br>194 °F | Other                |
| Hydrocarbons                         | 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                  | -               | -               | -                    |
|                                      | Toluene<br>(methylbenzene, phenylmethane, toluol)    | C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub><br>(108-88-3)  | -             | Ex                  | Ex              | Ex              | -                    |
|                                      | Styrene<br>(vinylbenzene, phenylethene)              | C <sub>6</sub> H <sub>5</sub> CHCH <sub>2</sub><br>(100-42-5)  | -             | Ex                  | Ex              | G               | -                    |
|                                      | 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) | -             | Ex                  | Ex              | Ex              | -                    |
| Miscellaneous                        | Water  | H <sub>2</sub> O<br>(7732-18-5)  | -             | Ex                  | Ex              | Ex              | 120°C<br>248°F<br>Ex |
|                                      | Nalco DVE4D002<br>Corrosion Inhibitor                | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco DVE4D006<br>Corrosion Inhibitor                | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco EC1317A<br>Corrosion inhibitor                 | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco EC6303A<br>Oxygen Scavenger                    | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco EC6481A<br>Hydrate Inhibitor                   | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco EC6622A<br>Low Dosage Hydrate Inhibitor (LDHI) | N/A  | -             | Ex                  | Ex              | -               | -                    |
|                                      | Nalco EC9356A<br>Hydrogen Sulphide Scavenger         | N/A  | -             | Ex                  | Ex              | -               | -                    |
| Nalco O3VD123<br>Corrosion Inhibitor | N/A  | -  | Ex            | Ex                  | -               | -               |                      |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> 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  |
| 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® 1392

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|               | Chemical name<br>(Synonym)                       | Chemical formula<br>(CAS number) | Concentration | Chemical Resistance |                 |                 |                      |
|---------------|--|----------------------------------|---------------|---------------------|-----------------|-----------------|----------------------|
|               |  |                                  |               | 20 °C<br>68 °F      | 60 °C<br>140 °F | 90 °C<br>194 °F | Other                |
| Miscellaneous | Nalco Ultimer 7751<br>Flocculant Water Treatment | N/A                              | -             | Ex                  | Ex              | -               | -                    |
|               | Sour oil / Brine mix                             | N/A                              | -             | Ex                  | Ex              | Ex              | 120°C<br>248°F<br>Ex |

|                  |           |  |
|------------------|-----------|--|
| <b>Excellent</b> | <b>Ex</b> | no significant deterioration / barrier properties retained for greater than 52 weeks<br><i>suitable for all applications including long term immersion</i>   |
| <b>Good</b>      | <b>G</b>  | no significant deterioration / barrier properties retained for 12 - 52 weeks<br><i>suitable for short-term immersion and general chemical contact</i>  |
| <b>Moderate</b>  | <b>M</b>  | no significant deterioration / barrier properties retained for 1 - 12 weeks<br><i>suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment</i>  |
| <b>Poor</b>      | <b>P</b>  | significant deterioration / loss of barrier properties after 1 week or less<br><i>not suitable for any application</i>   |
| *                |           | Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona. |
| <b>Ex</b>        |           | <b>Bold</b> 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  |
| 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.