



				Chemical Resistance			:
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
			20%	M*	Р	Р	-
	Hydrochloric acid	HCl	10%	G*	M	Р	-
	rrydrocinoric acid		5%	Ex*	G	G	-
		(7647-01-0)	3%	Ex*	Ex	Ex	-
sp	Nitric acid	HNO <sub>3</sub> (7697-37-2)	10%	G*	M	Р	-
Inorganic Acids	Nitrous acid	HNO <sub>2</sub> (7782-77-6)	10%	G*	М	Р	-
lno	Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	10%	G*	M	Р	-
	(orthophosphoric acid)	(7664-38-2)	5%	Ex*	G	М	-
		H <sub>2</sub> SO <sub>4</sub>	20%	M*	М	Р	1
	Sulphuric acid		10%	G*	G	М	-
	Sulphuric aciu		5%	Ex*	Ex	G	-
		(7664-93-9)	3%	Ex*	Ex	Ex	-
			10%	M*	Р	Р	-
	Acetic acid	CH₃COOH	5%	M*	M	Р	-
gs	(ethanoic acid)	(64-19-7)	1%	G*	G	G	-
ic Aci			0.1%	Ex*	Ex	Ex	-
Organic Acids	Carbonic acid	H <sub>2</sub> CO <sub>3</sub> (463-79-6)	-	Ex*	Ex	Ex	-
	Phenol (hydroxybenzene)	C <sub>6</sub> H <sub>5</sub> OH (108-95-2)	80%	M*	Р	Р	-

excellent Ex no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion		no significant deterioration / barrier properties retained for greater than 52 weeks		
		suitable for all applications including long term immersion		
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks		
Good	G	suitable for short-term immersion and general chemical contact		
D.C. alamata		no significant deterioration / barrier properties retained for 1 - 12 weeks		
ivioderate	Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment			
significant deterioration / loss of barrier properties after 1 week or less		significant deterioration / loss of barrier properties after 1 week or less		
Poor	Р	not suitable for any application		
*		Product must be post cured to deliver quoted chemical resistance		
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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		





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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other	
	Acetone (propanone)	(CH <sub>3</sub> ) <sub>2</sub> CO (67-64-1)	-	Ex*	-	-	55°C 131°F G*	
	Amyl alcohol	C <sub>5</sub> H <sub>11</sub> OH (71-41-0)	-	Ex*	Ex	Ex	-	
	n-Butanol (butyl alcohol)	C <sub>4</sub> H <sub>9</sub> OH (71-36-3)	-	Ex*	Ex	Ex	-	
	Ethanol (ethyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> OH (64-17-5)	-	Ex*	Ex	-	-	
səu	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH <sub>2</sub> OH) <sub>2</sub>	-	Ex*	Ex	Ex	-	
and Ketor	Glycerol (glycerine, propane-1,2,3-triol)	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH (56-81-5)	-	Ex*	Ex	Ex	-	
Alcohols, Aldehydes and Ketones	n-Hexanol (hexyl alcohol)	C <sub>6</sub> H <sub>13</sub> OH (111-27-3)	-	Ex*	Ex	Ex	-	
cohols, Al	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex*	Ex	Ex	-	
Alc	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH <sub>3</sub> CH(OH)CH <sub>3</sub> (67-63-0)	-	Ex*	Ex	-	-	
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> OH (78-83-1)	-	Ex*	Ex	Ex	-	
	Methanol (methyl alcohol)	CH₃OH (67-56-1)	-	Ex*	Ex	-	-	
	Methanol solution (aqueous)	55%	Ex*	Ex	-	79°C 174°F Ex		
	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub> (78-93-3)	-	Ex*	G	-	-	

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks		
Excellent Ex		suitable for all applications including long term immersion		
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks		
Good	G	suitable for short-term immersion and general chemical contact		
Madarata	D.4	no significant deterioration / barrier properties retained for 1 - 12 weeks		
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
significant deterioration / loss of barrier properties after 1 week or less		significant deterioration / loss of barrier properties after 1 week or less		
Poor	P	not suitable for any application		
*		Product must be post cured to deliver quoted chemical resistance		
Ex		<b>Bold</b> text highlights real life data obtained via chemical resistance testing		
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	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
	Propan-1-ol (Propyl alcohol)	CH₃CH₂CH₂OH	-	Ex*	Ex	Ex	-
	(	(71-23-8)					
(etones	Propylene glycol (1,2-Propanediol)	CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH (57-55-6)	-	Ex*	Ex	Ex	-
des and I	Secondary alcohols	R₁R₂CHOH	-	Ex*	Ex	Ex	-
Alcohols, Aldehydes and Ketones	Tertiary alcohols	R₁R₂R₃COH	-	Ex*	Ex	Ex	-
Alcohol	Triethylene glycol (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 (112-27-6)	-	Ex*	Ex	Ex	-
	Tetraethylene glycol (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 (112-60-7)	-	Ex*	Ex	Ex	-
	Barium hydroxide	Ba(OH) <sub>2</sub>	-	Ex*	Ex	Ex	1
	Calcium hydroxide (lime water)	Ca(OH) <sub>2</sub> (1305-62-0)	-	Ex*	Ex	Ex	-
Alkalis / Bases	Magnesium hydroxide (milk of magnesia)	Mg(OH) <sub>2</sub> (1309-42-8)	-	Ex*	Ex	Ex	-
l/si			40%	Ex*	Ex	Ex	-
Alkal	Potassium hydroxide (caustic potash)	кон	20%	Ex*	Ex	Ex	-
	(caustic potasti)	(1310-58-3)	10%	Ex*	Ex	Ex	-
			50%	Ex*	Ex	Ex	-
	Sodium hydroxide		40%	Ex*	Ex	Ex	-
	(caustic soda)	NaOH	20%	Ex*	Ex	Ex	-
		(1310-73-2)	10%	Ex*	Ex	Ex	

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no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion				
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Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks		
doou	ď	suitable for short-term immersion and general chemical contact		
Madayata	84	no significant deterioration / barrier properties retained for 1 - 12 weeks		
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
significant deterioration / loss of barrier properties after 1 week or less		significant deterioration / loss of barrier properties after 1 week or less		
Poor	Р	not suitable for any application		
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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				
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other		
	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (111-42-2)	-	Ex*	Ex	Ex	-		
	Diethylene glycolamine (DGA) (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 (929-06-6)	-	Ex*	G	М	-		
es	N-Methyl diethanolamine (MDEA)	CH <sub>3</sub> N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (105-59-9)	-	Ex*	Ex	Ex	-		
Amines & Amides	N-Methylethanolamine (2-methylaminoethanol)	CH <sub>3</sub> NHCH <sub>2</sub> CH <sub>2</sub> OH (109-83-1)	-	Ex*	Ex	Ex	1		
Amine	Monoethanolamine (MEA) (2-aminoethanol)	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH (141-43-5)	-	Ex*	Ex	Ex	-		
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex*	Ex	Ex	-		
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub> (102-71-6)	-	Ex*	Ex	Ex	-		
	Butyl acetate (butyl ethanoate)	CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (123-86-4)	-	Ex*	Ex	Ex	-		
hers	Dibutyl phthalate (DBP) (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> (84-74-2)	-	Ex*	Ex	Ex	-		
Esters and Ethers	Diethyl ether (ether, ethoxyethane)	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>3</sub> (60-29-7)	-	Ex*	-	-	-		
Este	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	-		
	Ethyl acetate (ethyl ethanoate, acetic ester)	CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>3</sub> (141-78-6)	-	Ex*	Ex	-	-		

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Excellent	EX	suitable for all applications including long term immersion		
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Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
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not suitable for any application		not suitable for any application		
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Butane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (106-97-8)	-	Ex	Ex	Ex	-
	Carbon dioxide	CO <sub>2</sub> (124-38-9)	-	Ex	Ex	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex	-
	Chlorine (dry)	Cl <sub>2</sub> (7782-50-5)	-	Ex	Ex	Ex	-
	Ethane	C₂H <sub>6</sub> (74-84-0)	-	Ex	Ex	Ex	-
Gases	Hydrogen	H <sub>2</sub> (1333-74-0)	-	Ex	Ex	Ex	-
Ga	Hydrogen sulphide	H <sub>2</sub> S (7783-06-4)	-	Ex	Ex	Ex	-
	Methane (natural gas)	CH <sub>4</sub> (74-82-8)	-	Ex	Ex	Ex	-
	Nitrogen	N <sub>2</sub> (7727-37-9)	-	Ex	Ex	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N <sub>2</sub> O (10024-97-2)	-	Ex	Ex	Ex	-
	Ozone (dry)	O <sub>3</sub> (10028-15-6)	-	Ex	Ex	Ex	-
	Ozone (wet)	O <sub>3</sub> (10028-15-6)	-	G*	М	M	-

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Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks		
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
es	Sulphur dioxide	SO <sub>2</sub> (7446-09-5)	-	Ex	Ex	Ex	-
Gases	Sulphur trioxide (sulphuric anhydride)	SO <sub>3</sub> (7446-11-9)	-	Ex	Ex	Ex	-
SI	Chlorobenzene (benzene chloride, phenyl chloride)	C <sub>6</sub> H <sub>5</sub> Cl (108-90-7)	-	Ex*	G	М	-
Halocarbons	Chloroform (trichloromethane)	HCCl <sub>3</sub> (67-66-3)	-	Ex*	-	-	-
I	Dichloromethane (DCM) (methylene chloride)	CH <sub>2</sub> Cl <sub>2</sub> (75-09-2)	-	Ex*	-	-	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	-	Ex*	Ex	Ex	-	
	Benzene (benzol)	C <sub>6</sub> H <sub>6</sub> (71-43-2)	-	Ex*	Ex	-	-
	Cyclohexane	C <sub>6</sub> H <sub>12</sub> (110-82-7)	-	Ex*	Ex	-	-
Hydrocarbons	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-
Hydroc	Heptane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (142-82-7)	-	Ex*	Ex	Ex	-
	Hexane	-	Ex*	Ex	-	-	
	lso-octane (2,2,4-trimethylpentane)						-
	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-

excellent			
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Poor	P	significant deterioration / loss of barrier properties after 1 week or less not suitable for any application	
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	Mesitylene (1,3,5-Trimethylbenzene )	C <sub>6</sub> H <sub>3</sub> (CH <sub>3</sub> ) <sub>3</sub> (108-67-8)	-	Ex*	Ex	Ex	ı	
	Mineral spirits / White spirits (Stoddard solvent)	N/A (8052-41-3)	-	Ex*	Ex	Ex	-	
	Naphtha	N/A (8030-30-6)	-	Ex*	Ex	Ex	-	
Hydrocarbons	Naphthalene (naphthalin, white tar)	C <sub>10</sub> H <sub>8</sub> (91-20-3)	-	Ex*	Ex	Ex	-	
Hydroc	Paraffin	N/A (8002-74-2)	-	Ex*	Ex	Ex	ı	
	Pentane	-	Ex*	-	-	-		
	Toluene (methylbenzene, phenylmethane, toluol)	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (108-88-3)	-	Ex*	Ex	Ех	-	
	Xylene (dimethyl benzene, xylol)	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex*	Ex	Ex	-	
	Water	H <sub>2</sub> O (7732-18-5)	-	Ex*	Ex	Ex	130°C 266°F Ex	
snı	Nalco DVE4D002 Corrosion Inhibitor	N/A	-	Ex*	G	-	-	
Miscellaneous	Nalco DVE4D006 Corrosion Inhibitor N/A		-	Ex*	G	-	-	
	Nalco EC1317A Corrosion inhibitor	N/A	-	Ex*	Ex	-	-	
	Nalco EC6303A Oxygen Scavenger	N/A	-	Ex*	Ex	-	-	

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Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks		
Moderate		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
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	Nalco EC6481A Hydrate Inhibitor	N/A	-	Ex*	Ex	-	-
	Nalco EC6622A Low Dosage Hydrate Inhibitor (LDHI)	N/A	-	Ex*	Ex	ı	-
Miscellaneous	Nalco EC9356A Hydrogen Sulphide Scavenger	N/A	-	Ex*	Ex	ı	-
	Nalco O3VD123 Corrosion Inhibitor	N/A	-	Ex*	G	-	-
	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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Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks		
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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.