

FN10037

					Chemical Resistance				
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other		
			10%	M*	м	М	-		
	Hydrochloric acid	HCI	5%	G*	G	М	-		
		(7647-01-0)	3%	G*	G	G	-		
	Nitric acid	HNO ₃ (7697-37-2)	10%	M*	м	м	-		
Inorganic Acids	Nitrous acid	cid HNO ₂	10%	M*	м	М	-		
Inorg	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	10%	M*	м	М	-		
	Sulphuric acid		20%	M*	М	Р	-		
		H ₂ SO ₄	10%	G*	м	М	-		
			5%	Ex*	G	G	-		
		(7664-93-9)	3%	Ex*	Ex	Ex	-		
	Acetic acid	CH₃COOH	10%	M*	Р	Р	-		
	(ethanoic acid)	(64-19-7)	5%	M*	м	Р	-		
Organic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex*	Ex	Ex	-		
Organi	Formic acid (methanoic acid)	HCOOH (64-18-6)	5%	M*	Р	Ρ			
	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	80%	M*	Р	Ρ	-		

Excellent Ex 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 suitable for short-term immersion and general chemical contact				
Moderate M no significant deterioration / barrier properties retained for 1 - 12 weeks suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		5 · · · · · · · · · · · · · · · · · · ·		
Poor	Р	significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		
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	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	Ex*	-	-	55°C 131°F G*
	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex*	Ex	Ex	-
	n-Butanol (butyl alcohol)	C₄H ₉ OH (71-36-3)	-	Ex*	Ex	Ex	-
les	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex*	Ex	-	-
Alcohols, Aldehydes and Ketones	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex*	Ex	Ex	140°C 284°F M
dehydes a	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex*	Ex	Ex	-
cohols, Al	n-Hexanol (hexyl alcohol)	C ₆ H ₁₃ OH (111-27-3)	-	Ex*	Ex	Ex	-
Alc	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex*	Ex	Ex	-
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex*	Ex	-	-
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex*	Ex	Ex	-
-	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex*	Ex	-	-
	Methanol solution (aqueous)	CH ₃ OH _(aq) (67-56-1)	55%	Ex*	Ex	-	79°C 174°F Ex
	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex*	Ex	-	-

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	(Synonym)	(CAS number)		68 °F	140 °F	194 °F			
	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	Ex	Ex	-		
ƙetones	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex*	Ex	Ex	-		
Alcohols, Aldehydes and Ketones	Secondary alcohols	R ₁ R ₂ CHOH	-	Ex*	Ex	Ex	-		
s, Aldehy	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex*	Ex	Ex	-		
Alcohol	Triethylene glycol (triglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-27-6)	-	Ex*	Ex	Ex	140°C 284°F G		
	Tetraethylene glycol (tetraglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-60-7)	-	Ex*	Ex	Ex	140°C 284°F G		
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	Ex*	Ex	Ex	-		
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex*	Ex	Ex	-		
Alkalis / Bases	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex*	Ex	Ex	-		
is / E			40%	Ex*	Ex	Ex	-		
Alkal	Potassium hydroxide (caustic potash)	КОН	20%	Ex*	Ex	Ex	-		
	······	(1310-58-3)	10%	Ex*	Ex	Ex	-		
			50%	Ex*	Ex	Ex	-		
	Sodium hydroxide	NaOU	40%	Ex*	Ex	Ex	-		
	(caustic soda)	NaOH	20%	Ex*	Ex	Ex	-		
		(1310-73-2)	10%	Ex*	Ex	Ex	-		

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	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex*	Ex	Ex	145°C 293°F G		
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	Ex*	G	G	120°C 248°F G		
es	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex*	Ex	Ex	140°C 284°F G		
Amines & Amides	N-Methylethanolamine (2-methylaminoethanol)	CH ₃ NHCH ₂ CH ₂ OH (109-83-1)	-	Ex*	Ex	Ex	-		
Amine	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ 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 ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex*	Ex	Ex	-		
	Butyl acetate (butyl ethanoate)	CH ₃ C(O)OCH ₂ CH ₂ CH ₂ CH ₃ (123-86-4)	-	Ex*	Ex	Ex	-		
hers	Dibutyl phthalate (DBP) (phthalic acid dibutyl ester)	C ₆ H ₄ (C(O)OCH ₂ CH ₂ CH ₂ CH ₃) ₂ (84-74-2)	-	Ex*	Ex	Ex	-		
Esters and Ethers	Diethyl ether (ether, ethoxyethane)	CH ₃ CH ₂ OCH ₂ CH ₃ (60-29-7)	-	Ex*	-	-	-		
Este	Dioctyl phthalate (DOP) (bis(2-ethylhexyl) phthalate, DEHP)	C ₆ H ₄ (C(O)OCH ₂ CH(CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃) ₂ (117-81-7)	-	Ex*	Ex	Ex	-		
	Ethyl acetate (ethyl ethanoate, acetic ester)	CH ₃ C(O)OCH ₂ CH ₃ (141-78-6)	-	Ex*	Ex	-	-		

	_	no significant deterioration / barrier properties retained for greater than 52 weeks		
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	Butane	CH ₃ CH ₂ CH ₂ CH ₃ (106-97-8)	-	Ex	Ex	Ex	-
	Carbon dioxide	CO ₂ (124-38-9)	-	Ex	Ex	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex	-
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex	Ex	Ex	-
	Ethane	C ₂ H ₆ (74-84-0)	-	Ex	Ex	Ex	-
Gases	Hydrogen	H ₂ (1333-74-0)	-	Ex	Ex	Ex	-
Ga	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	Ex	Ex	-
	Methane (natural gas)	CH ₄ (74-82-8)	-	Ex	Ex	Ex	-
	Nitrogen	N2 (7727-37-9)	-	Ex	Ex	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	Ex	Ex	-
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	Ex	Ex	-
	Ozone (wet)	O ₃ (10028-15-6)	-	G*	М	М	-

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Gases	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	Ex	Ex	-
Gas	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-
ıs	Chlorobenzene (benzene chloride, phenyl chloride)	C ₆ H ₅ Cl (108-90-7)	-	Ex*	G	М	-
Halocarbons	Chloroform (trichloromethane)	HCCl ₃ (67-66-3)	-	Ex*	-	-	-
Т	Dichloromethane (DCM) (methylene chloride)	CH ₂ Cl ₂ (75-09-2)	-	Ex*	-	-	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	-	Ex*	Ex	Ex	-	
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex*	Ex	-	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex*	Ex	-	-
Hydrocarbons	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-
Hydroe	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex*	Ex	Ex	-
	Hexane CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ - (110-54-3)				Ex	-	-
	lso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex*	Ex	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-

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Hydrocarbons	Mesitylene (1,3,5-Trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Ex*	Ex	Ex	-
	Mineral spirits / White spirits (Stoddard solvent)	N/A (8052-41-3)	-	Ex*	Ex	Ex	-
	Naphtha	-	Ex*	Ex	Ex	-	
	Naphthalene (naphthalin, white tar)			Ex*	Ex	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex*	Ex	Ex	-
	Pentane	Pentane CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ -		Ex*	-	-	-
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex*	Ex	Ex	-
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex*	Ex	Ex	-
Miscellaneous	Deionised water	H ₂ O (7732-18-5)	-	Ex*	Ex	Ex	140°C 284°F Ex
Miscell	Sour oil / Brine mix	N/A	-	Ex*	Ex	Ex	140°C 284°F Ex

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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.