



				(Chemical	Resistance	9
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
			10%	G*	М	м	-
	Hydrochloric acid	HCI	5%	G*	М	М	-
ids		(7647-01-0)	1%	Ex*	G	м	-
Inorganic Acids	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	5%	М*	М	Ρ	-
lnc			10%	M*	Р	Р	-
	Sulphuric acid	H_2SO_4	5%	M*	М	Р	-
		(7664-93-9)	1%	Ex*	м	м	-
st	Acetic acid	CH₃COOH	5%	P*	Р	Р	-
c Aci	(ethanoic acid)	(64-19-7)	1%	M*	М	М	-
Organic Acids	Phenol C ₆ H ₅ OH 80% (hydroxybenzene)				Ρ	Ρ	-
	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	M*	-	-	-
es	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex*	G	G	-
nd Keton	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex*	G	G	-
Alcohols, Aldehydes and Ketones	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex*	G	-	78°C 172°F M
lcohols,	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex*	Ex	Ex	-
A	Glycerol (glycerine, propane-1,2,3-triol)	· · · · · · · · · · · · · · · · · · ·				G	-
	n-Hexanol (hexyl alcohol)	Hexanol C ₆ H ₁₃ OH			G	G	-

ExcellentExno 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		5 · · · · · · · · · · · · · · · · · · ·	
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	Ρ	significant deterioration / loss of barrier properties after 1 week or less not suitable for any application	
*		Product must be post cured to deliver quoted chemical resistance	
Ex		Bold text highlights real life data obtained via chemical resistance testing	
Ex	Ex Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents		





					Chemical I	Resistance	9
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Higher alcohols	$C_nH_{(2n+1)}OH$ where n > 2	-	Ex*	G	G	-
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex*	G	-	-
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex*	G	G	-
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex*	М	-	65°C 149°F M
nes	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex*	М	-	-
Alcohols, Aldehydes and Ketones	Methyl isobutyl ketone (MIBK) (hexone, 4-Methylpentan-2-one)	(CH ₃) ₂ CHCH ₂ C(O)CH ₃ (108-10-1)	-	Ex*	Ex*	М	-
Idehydes	Methyl pentyl ketone (methyl n-amyl ketone, heptan-2-one)	CH ₃ COCH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-43-0)	-	Ex*	Ex	G	-
lcohols, A	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	G	G	-
A	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex*	Ex	Ex	-
	Secondary alcohols	R₁R₂CHOH	-	Ex*	G	G	-
	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex*	G	G	-
	Triethylene glycol (triglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ O H (112-27-6)	-	Ex*	G	М	-
	Tetraethylene glycol (tetraglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-60-7)	-	Ex*	G	М	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks	
		suitable for all applications including long term immersion	
Grand	~	no significant deterioration / barrier properties retained for 12 - 52 weeks	
Good	G	suitable for short-term immersion and general chemical contact	
Madavata		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	
Deer	Р	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		Bold text highlights real life data obtained via chemical resistance testing	
Ex	Ex Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents		





					Chemical	Resistance	e
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentratio n	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Ammonia solution (ammonium hydroxide)	NH _{3 (aq)} (1336-21-6)	25%	Ex*	-	-	-
Alkalis / Bases	Potassium hydroxide (caustic potash)	KOH 1310-58-3)	10%	Ex*	G	м	-
Alkali			50%	Ex*	G	Ex	-
1	Sodium hydroxide (caustic soda)	NaOH	20%	Ex*	G	G	-
	(,	(1310-73-2)	10%	Ex*	G	G	-
	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex*	Ex	Ex	-
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	M*	Ρ	Ρ	-
Amides	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex*	Ex	Ex	-
Amines & Amides	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	M*	Ρ	Ρ	-
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex*	G	М	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex*	Ex	G	-
	Butane	CH ₃ CH ₂ CH ₂ CH ₃ (106-97-8)	-	Ex	Ex	Ex	-
ses	Carbon dioxide	CO ₂ (124-38-9)	-	Ex	Ex	Ex	-
Gase:	Carbon monoxide CO -				Ex	Ex	-
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex	Ex	Ex	-

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	Moderate 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			
Poor	Poor P significant deterioration / loss of barrier properties after 1 week or less not suitable for any application not suitable for any application			
*		Product must be post cured to deliver quoted chemical resistance		
Ex		Bold text highlights real life data obtained via chemical resistance testing		
Ex		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents		



FN10193

					Chemical	Resistance	9
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)	concentration	68 °F	140 °F	194 °F	other
	Ethane	-	Ex	Ex	Ex	-	
	Hydrogen	H ₂ (1333-74-0)	-	Ex	Ex	Ex	-
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	Ex	Ex	-
	Methane (natural gas)	CH ₄ (74-82-8)	-	Ex	Ex	Ex	-
Gases	Nitrogen	N ₂ (7727-37-9)	-	Ex	Ex	Ex	-
Ga	Nitrous oxide (dinitrogen monoxide)	N2O (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	-
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	Ex	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex*	Ex	Ex	-
arbons	Crude Oil N/A		-	Ex*	Ex	Ex	
Hydrocarbons	Cyclohexane	-	Ex*	Ex	-	-	
	Diesel	N/A	-	Ex	Ex	Ex	-

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		o		
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	Ρ	significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		
*		Product must be post cured to deliver quoted chemical resistance		
Ex		Bold text highlights real life data obtained via chemical resistance testing		
Ex		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents		





					Chemical	Resistance	e
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentratio n	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Ethyl benzene (ethyl benzol, EB)	C ₆ H ₅ CH ₂ CH ₃ (100-41-4)	-	Ex*	Ex	G	-
	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-
	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*	Ex	-	-
arbons	lso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex*	Ex	Ex	-
Hydrocarbons	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-
	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	N/A (8030-30-6)	-	Ex*	Ex	Ex	-
	Naphthalene (naphthalin, white tar)	C ₁₀ H ₈ (91-20-3)	-	Ex*	Ex	Ex	-

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



FN10193

				(Chemical I	Resistance	9
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
	Paraffin	N/A (8002-74-2)	-	Ex*	Ex	Ex	-
Hydrocarbons	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex*	-	-	-
Hydroc	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex*	Ex	G	-
	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	G	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent		suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	9	suitable for short-term immersion and general chemical contact
Moderate	м	no significant deterioration / barrier properties retained for 1 - 12 weeks
Woderate	IVI	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Poor	Ρ	significant deterioration / loss of barrier properties after 1 week or less
POOP	P	not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
Ex		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents

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 exclude or limited.