

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance Rating at 20 °C (68 °F)		
			37%	Р		
	Hudrophlaria acid	HCl	20%	G		
	Hydrochloric acid		10%	Ex		
		(7647-01-0)	5%	Ex		
Inorganic Acids	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	5%	M		
Inorgan	Nitric acid	HNO ₃ (7697-37-2)	5%	M		
			30%	Р		
	Sulphuric acid	H ₂ SO ₄	20%	M		
	Sulphunic acid		10%	Ex		
		(7664-93-9)	5%	Ex		
	Acetic acid	CH₃COOH	5%	Р		
cids	(ethanoic acid)	(64-19-7)	1%			
Organic Acids	Lactic acid (2-hydroxypropanoic acid)	5%	P			
Or	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	80%	Р		
	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	1	Р		
	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex		
etones	n-Butanol (butyl alcohol)	C₄H ₉ OH (71-36-3)	-	Ex		
ldehydes and Ketones	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	G		
ehydes	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex		
ols, Ald	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex		
Alcohols, A	n-Hexanol (hexyl alcohol)	-	Ex			
	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex		
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex		

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 suitable for short-term immersion and general chemical contact
Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	IVI	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Poor	P	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
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 name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance Rating at 20 °C (68 °F)
es	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex
Alcohols, Aldehydes and Ketones	Methanol (methyl alcohol)	CH₃OH (67-56-1)	-	P
des anc	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	P
Aldehy	Methyl isobutyl ketone (MIBK) (hexone, 4-Methylpentan-2-one)	(CH ₃) ₂ CHCH ₂ C(O)CH ₃ (108-10-1)	-	М
cohols,	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex
₹	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex
	Ammonia solution (ammonium hydroxide)	NH _{3 (aq)} (1336-21-6)	20%	Ex
S			40%	Ex
Alkalis / Bases	Potassium hydroxide (caustic potash)	кон	20%	Ex
alis /		1310-58-3)	10%	Ex
Ak			50%	Ex
	Sodium hydroxide (caustic soda)	NaOH	20%	Ex
	(**************************************	(1310-73-2)	10%	Ex
	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex
nides	Diethylene glycolamine (DGA) H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ C		-	P
Amines & Amides	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex
Amine	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	Р
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex

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Moderate	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	
Poor P significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance Rating at 20 °C (68 °F)
	Butane	CH ₃ CH ₂ CH ₂ CH ₃ (106-97-8)	-	Ex
	Carbon dioxide	CO ₂ (124-38-9)	-	Ex
	Carbon monoxide	CO (630-08-0)	-	Ex
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex
	Chlorine (wet)	Cl ₂ (7782-50-5)	-	Ex
	Ethane	C ₂ H ₆ (74-84-0)	-	Ex
	Hydrogen	H ₂ (1333-74-0)	-	Ex
Gases	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex
	Methane (natural gas)	CH ₄ (74-82-8)	-	Ex
	Nitrogen	N ₂ (7727-37-9)	-	Ex
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex
	Ozone (wet)	O ₃ (10028-15-6)	-	М
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex
Hydrocarbons	Crude Oil	N/A	-	Ex
Hydroc	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	G
	Diesel	N/A	-	Ex

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance Rating at 20 °C (68 °F)
	Ethyl benzene (ethyl benzol, EB)	C ₆ H ₅ CH ₂ CH ₃ (100-41-4)	-	G
	Gasoline (petrol)	N/A (8032-32-4)	-	Ех
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex
	Hexane	CH ₃ 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
ons	Kerosene	N/A (8008-20-6)	-	Ex
Hydrocarbons	Mesitylene (1,3,5-Trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	G
Hyc	Mineral spirits / White spirits (Stoddard solvent)	N/A (8052-41-3)	-	Ex
	Naphthalene (naphthalin, white tar)	C ₁₀ H ₈ (91-20-3)	-	Ex
	Paraffin	N/A (8002-74-2)	-	Ex
	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	G
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	G
	Aluminium chloride	AICI ₃ (7446-70-0)	10%	Ex
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	10%	Ex
	Ammonium chloride	NH ₄ Cl (12125-02-9)	10%	Ex
Salts	Ammonium sulphate	(NH ₄) ₂ SO ₄ (7783-20-2)	10%	Ex
	Copper sulphate	CuSO ₄ (7758-98-7)	10%	Ex
	Ferric chloride	FeCl ₃ (7705-08-0)	10%	Ex
	Ferric sulphate	Fe ₂ (SO ₄) ₃ (10028-22-5)	10%	Ex

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CHEMICAL RESISTANCE OF BELZONA® 7311





	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance Rating at 20 °C (68 °F)
	Ferrous chloride	FeCl ₂ (7758-94-3)	10%	Ex
	Ferrous sulphate	FeSO ₄ (7720-78-7)	10%	Ех
	Magnesium chloride	MgCl ₂ (7786-30-3)	10%	Ex
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	10%	Ex
Salts	Potassium chloride	KCI (7447-40-7)	10%	Ex
Sa	Potassium sulphate	K ₂ SO ₄ (7778-80-5)	10%	Ex
	Sodium hypochlorite (bleach)	NaCIO (7681-52-9)	12%	G
	Sodium nitrate	NaNO ₃ (7631-99-4)	10%	Ex
	Sodium sulphate	Na ₂ SO ₄ (7757-82-6)	10%	Ex
	Sodium sulphide	Na ₂ S (1313-82-2)	10%	Ex

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Good G Good G Good G G G G G G G G G G G G G		
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