



	Chemical name (Synonym)	Chemical formula	6 number)	Concentration	20 °C 68 °F	40 °C 104 °F
				10%	G	М
	Hydrochloric acid	HCI		5%	68°F       104°         G       M         Ex       K         G       M         Ex       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         G       P         P       P         P       P         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M	М
s	·	(7	647-01-0)	1%	Ex	Ex
Inorganic Acids	Nitrie - sid	HNO <sub>3</sub>		10%	G	М
iic ∕	Nitric acid		697-37-2)	5%	Ex	М
gan	Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>		10%	М	М
nor	(orthophosphoric acid)		664-38-2)	5%	М	М
_				10%	М	М
	Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	664-93-9)	5%	G	М
		(		1%	Ex	G
s	Acetic acid	CH₃COOH		5%	Р	Р
cid	(ethanoic acid)		(64-19-7)	1%	Ex	Ex
Organic Acids	Formic acid (methanoic acid)	НСООН	(64-18-6)	-	Р	Р
Org	Phenol (hydroxybenzene)	C <sub>6</sub> H₅OH	108-95-2)	-	Р	Р
	Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO	(67-64-1)	-	Р	Р
	Amyl alcohol (1-Pentanol)	C₅H <sub>11</sub> OH	(71-41-0)	-	М	М
nes	n-Butanol C <sub>4</sub> H <sub>9</sub> OH (butyl alcohol) (71-36-3)		-	М	М	
d Keto	Ethanol (ethyl alcohol)	ch3ch2off		-	М	Р
des an	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH <sub>2</sub> OH) <sub>2</sub>	107-21-1)	-	Ex	Ex
Alcohols, Aldehydes and Ketones	Glycerol (glycerine, propane-1,2,3-triol)	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH	(56-81-5)	-	Ex	Ex
hols, /	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH₃CH(OH)CH₃	(67-63-0)	-	М	М
Alco	Methanol (methyl alcohol)	CH₃OH	(67-56-1)	-	Р	Р
	Methyl ethyl ketone (MEK, butanone)	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub>	(78-93-3)	-	Р	Р
	Propan-1-ol (Propyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH	(71-23-8)	-	М	М

Excellent Ex no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion		
Good	Good       G         no significant deterioration / barrier properties retained for 12 - 52 weeks         suitable for short-term immersion and general chemical contact	
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	Poor P significant deterioration / loss of barrier properties after 1 week or less 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

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	40 °C 104 °F
	Ammonia	NH <sub>3</sub> (7664-41-7)	25%	Ex	Ex
	Barium hydroxide	Ba(OH) <sub>2</sub> (17194-00-2)	-	Ex	Ex
ses	Calcium hydroxide (lime water)	Ca(OH) <sub>2</sub> (1305-62-0)	-	Ex	Ex
Alkalis/Bases	Magnesium hydroxide (milk of magnesia)	Mg(OH) <sub>2</sub> (1309-42-8)	-	Ex	Ex
Alka	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40% 20%	Ex Ex	Ex Ex
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	20/0	Ex Ex Ex	Ex Ex Ex Ex
	Diethanolamine (DEA) (2,2'-iminodiethanol)	$\begin{array}{c c c c c c c c } & A0\% & Ex & Ex & 20\% $			
nides	Diethylene gylcolamine (DGA) (2-(2-aminoethoxy) ethanol)			Р	Р
and Ar	N-Methyl diethanolamine (MDEA)		-	G	G
Amines and Amides	Monoethanolamine (MEA) (2-aminoethanol)			м	Р
A	Sulfanol solution (50% diisopropanolamine, 25% tetramethylene sulfone, 25% water)	N/A	-	G	G
	Carbon dioxide (dry)	CO <sub>2</sub> (124-38-9)	-	Ex	Ex
Gases	Carbon monoxide	CO (630-08-0)	-	Ex	Ex
Ga	Hydrogen	H <sub>2</sub> (1333-74-0)	-	Ex	Ex
	Nitrogen	N <sub>2</sub> (7727-37-9)	-	Ex	Ex
	Carbon tetrachloride	CCI <sub>4</sub> (56-23-5)	-	Р	Р
Halocarbons	Chlorobenzene (benzene chloride, phenyl chloride)	C <sub>6</sub> H <sub>5</sub> Cl (108-90-7)	-	Р	Р
Haloca	Chloroform (trichloromethane)	HCCl <sub>3</sub> (67-66-3)	-	Р	Р
	Dichloromethane (DCM) (methylene chloride)	CH <sub>2</sub> Cl <sub>2</sub> (75-09-2)	-	Р	Р

Excellent Ex no significant deterioration / barrier properties retained for greater than 52 weeks		
		suitable for all applications including long term immersion
Good	c	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good G		suitable for short-term immersion and general chemical contact
Madamia		no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	М	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Boost	P	significant deterioration / loss of barrier properties after 1 week or less
Poor	P	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

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	40 °C 104 °F
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex
	Crude oil	N/A	-	G	G
	Gasoline (ethanol-free petrol)	N/A (8032-32-4)	-	Ex	Ex
	Heptane	$CH_{3}CH_{2}CH_{2}CH_{2}CH_{2}CH_{2}CH_{3}$ (142-82-7)	-	Ex	Ex
suo	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> (110-54-3)	-	Ex	Ex
Hydrocarbons	Kerosene	N/A (8008-20-6)	-	Ex	Ex
Нуd	Mineral Spirits / White Spirits (Turpentine, Stoddards Solvent)	N/A (8052-41-3)		Ex	Ex
	Paraffin wax	N/A (8002-74-2)	-	Ex	Ex
	Petrolatum (Petroleum jelly)	N/A (8009-03-8)	-	Ex	Ex
	Toluene (methylbenzene, phenylmethane, toluol)	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (108-88-3)	-	G	G
	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)	-	G	G
	Brake fluid	N/A	-	Ex	Ex
	Emulsion paint	N/A	-	Ex	Ex
	Fertilizer solutions	N/A	-	Ex	Ex
	Grease	N/A	-	Ex	Ex
snoa	Ink (water based)	N/A	-	Ex	Ex
Miscellaneous	Mercury	Hg (7439-97-6)	-	Ex	Ex
Mise	Silicone oil	N/A	-	Ex	Ex
	Starch	N/A	-	Ex	Ex
	Water Deionised, Fresh, Mineral, Sea	H <sub>2</sub> O (7732-18-5)	-	Ex	Ex
	Water/Oil Mixtures	N/A	-	Ex	Ex
	Wax emulsions	N/A	-	Ex	Ex

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion
Good	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 suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Poor	Р	significant deterioration / loss of barrier properties after 1 week or less 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	20 °C 68 °F	40 °C 104 °F
	Bunker oil	N/A	-	Ex	Ex
	Diesel oil	N/A	-	Ex	Ex
eral	Fuel oil	N/A	-	Ex	Ex
Oils - Mineral	Hydraulic oil	N/A	-	Ex	Ex
oils	Lube oil	N/A	-	Ex	Ex
	Petroleum oil	N/A	-	Ex	Ex
	Transformer oil	N/A	-	Ex	Ex
	Castor oil	N/A	-	Ex	Ex
	Coconut oil	N/A	-	Ex	Ex
	Cod liver oil N/A		-	Ex	Ex
	Corn oil	N/A	-	Ex	Ex
nal	Cottonseed oil	N/A	-	Ex	Ex
e/Anin	Lard oil	N/A	-	Ex	Ex
getable	Linseed oil	N/A	-	Ex	Ex
Oils – Vegetable/Animal	Olive oil	N/A	-	Ex	Ex
Oil	Palm oil	N/A	-	Ex	Ex
	Pine oil	N/A	-	Ex	Ex
	Soybean oil	N/A	-	Ex	Ex
	Tall oil	N/A	-	Ex	Ex
	Tung oil	N/A	-	Ex	Ex

Excellent	Ех	no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion
Good	Good       G         no significant deterioration / barrier properties retained for 12 - 52 weeks         suitable for short-term immersion and general chemical contact	
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	oor P significant deterioration / loss of barrier properties after 1 week or less not suitable for any application	
Ex		Bold text highlights real life data obtained via chemical resistance testing
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	40 °C 104 °F	
	Aluminium chloride	AICI <sub>3</sub> (7446-70-0)	-	Ex	Ex	
	Aluminium sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10043-01-3)	-	Ex	Ex	
	Ammonium bicarbonate	(NH <sub>4</sub> )HCO <sub>3</sub> (1066-33-7)	-	Ex	Ex	
	Ammonium carbonate	(NH4)2CO3 (506-87-6)	-	Ex	Ex	
	Ammonium chloride	NH <sub>4</sub> Cl (12125-02-9)	-	Ex	Ex	
	Ammonium phosphate	(NH4)3PO4 (10361-65-6)	-	Ex	Ex	
	Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub> (6484-52-2)	-	Ex	Ex	
	Ammonium sulfate	(NH4)2SO4 (7783-20-2)	-	G	G	
	Barium carbonate	BaCO <sub>3</sub> (513-77-9)	-	Ex	Ex	
	Barium chloride	BaCl <sub>2</sub> (10361-37-2)	-	Ex	Ex	
Salts	Barium sulfate	BaSO <sub>4</sub> (7727-43-7)	-	Ex	Ex	
	Calcium carbonate	CaCO <sub>3</sub>	-	Ex	Ex	
	Calcium chloride	CaCl <sub>2</sub> (10043-52-4)	-	Ex	Ex	
	Calcium hypochlorite	Ca(ClO) <sub>2</sub> (7778-54-3)	10%	G	G	
	Calcium sulfate	CaSO4 (7778-18-9)	-	Ex	Ex	
	Copper acetate	Cu(CH3COO)2 (142-71-2)	-	Ex	Ex	
	Copper chloride	CuCl2 (7447-39-4)	-	Ex	Ex	
	Copper nitrate	Cu(NO3)2 (3251-23-8)	-	Ex	Ex Ex G G Ex Ex Ex Ex Ex Ex	
	Copper sulfate	CuSO4 (7758-98-7)	-	Ex	Ex	
	Ferric chloride	FeCl3 (7705-08-0)	-	Ex	Ex	
	Ferrous chloride	FeCl2 (7758-94-3)	-	G	G	

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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 suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment	
Poor	Р	significant deterioration / loss of barrier properties after 1 week or less not suitable for any application	
Ex		Bold text highlights real life data obtained via chemical resistance testing	
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	40 °C 104 °F
	Ferric sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10028-22-5)	-	Ex	Ex
	Ferrous sulfate	FeSO <sub>4</sub> (7720-78-7)	-	G	G
	Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub> (301-04-2)	-	Ex	Ex
	Magnesium chloride	MgCl <sub>2</sub> (7786-30-3)	-	Ex	Ex
	Magnesium sulfate (Epsom salt)	MgSO <sub>4</sub> (7487-88-9)	-	Ex	Ex
	Nickel chloride	NiCl <sub>2</sub> (7718-54-9)	-	Ex	Ex
	Potassium bromide	KBr (7758-02-3)	-	Ex	Ex
	Potassium chlorate	KClO <sub>3</sub> (3811-04-9)	-	Ex	Ex
	Potassium chloride	KCl (7447-40-7)	-	Ex	Ex
	Potassium cyanide	KCN (151-50-8)	-	Ex	Ex
Salts	Potassium ferrocyanide	K <sub>4</sub> [Fe(CN) <sub>6</sub> ]	-	Ex	Ex
Sa	Potassium iodide	KI (7681-11-0)	-	Ex	Ex
	Potassium nitrate	KNO3 (7757-79-1)	-	Ex	Ex
	Potassium permanganate	KMnO <sub>4</sub> (7722-64-7)	-	Ex	Ex
	Potassium sulfate	K2SO4 (7778-80-5)	-	Ex	Ex
	Silver nitrate	AgNO3 (7761-88-8)	-	Ex	Ex
	Sodium acetate	CH3COONa (127-09-3)	-	Ex	Ex
	Sodium borate (borax)	Na2B4O7 (1303-96-4)	-	Ex	Ex
	Sodium bromide	NaBr (7647-15-6)	-	Ex	Ex
	Sodium chlorate	NaClO3 (7775-09-9)	-	Ex	Ex
	Sodium chloride	NaCl (7647-14-5)	-	Ex	Ex
	Sodium chromate	Na2CrO4 (7775-11-3)	-	Ex	Ex

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion	
Good	sood G no significant deterioration / barrier properties retained for 12 - 52 weeks suitable for short-term immersion and general chemical contact		
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	Ρ	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	20 °C 68 °F	40 °C 104 °F
	Sodium cyanide	NaCN (143-33-	-	Ex	Ex
	Sodium fluoride	NaF (7681-49-	4) -	Ex	Ex
	Sodium hypochlorite (bleach)	NaClO (7681-52-	9) 10%	G	G
	Sodium nitrate	Sodium nitrate NaNO <sub>3</sub> (7631-99-4)		Ex	Ex
	Sodium phosphate (dibasic)	Na <sub>2</sub> HPO <sub>4</sub> (7558-79-	4) -	Ex	Ex
Salts	Sodium phosphate (tribasic)	Na <sub>3</sub> PO <sub>4</sub> (7601-54-	-	Ex	Ex
Sa	Sodium silicate	Na <sub>2</sub> SiO <sub>3</sub> (6834-92-	-	Ex	Ex
	Sodium sulfate Na <sub>2</sub> SO <sub>4</sub>		5)	Ex	Ex
	Sodium sulfide Na <sub>2</sub> S			Ex	Ex
	Stannous chloride (tin chloride)	SnCl <sub>2</sub> (7772-99-	3) -	Ex	Ex
	Zinc chloride	ZnCl <sub>2</sub> (7646-85-	7) -	Ex	Ex
	Zinc sulfate	ZnSO <sub>4</sub> (7733-02-	-	Ex	Ex

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks suitable for all applications including long term immersion	
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Moderate	м	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	
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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.