



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Fluorosilicic acid (Dihydrogen hexafluorosilicate)	H <sub>2</sub> SiF <sub>6</sub> (16961-83-4)	-	Р	
cids	Hydrochloric acid	HCI (7647-01-0)	20% 10%	P Ex	-
Inorganic Acids	Nitric acid	HNO <sub>3</sub> (7697-37-2)	20%	Р	-
Inorg			10% 30%	M G	-
	Sulfuric acid	H <sub>2</sub> SO <sub>4</sub> (7664-93-9)	20% 10%	Ex Ex	<del>-</del> -
	Acetic acid (ethanoic acid)	CH <sub>3</sub> COOH (64-19-7)	10%	М	-
Organic Acids	Phenol (hydroxybenzene)	C <sub>6</sub> H <sub>5</sub> OH (108-95-2)	-	Р	-
Organi	Stearic acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CO <sub>2</sub> H (57-11-4)	-	Ex	-
	Tartaric acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> (526-83-0)	-	Ex	-
	Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO (67-64-1)	-	Р	-
	Amyl alcohol (1-Pentanol)	C <sub>5</sub> H <sub>11</sub> OH (71-41-0)	-	Р	-
ones	n-Butanol (butyl alcohol)	C <sub>4</sub> H <sub>9</sub> OH (71-36-3)	-	Р	-
nd Ket	Ethanol (ethyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> OH (64-17-5)	-	Р	-
ydes a	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH <sub>2</sub> OH) <sub>2</sub>	-	M	-
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)	-	M	-
ohols,	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH <sub>3</sub> CH(OH)CH <sub>3</sub> (67-63-0)	-	Р	-
Alc	Methanol (methyl alcohol)	CH <sub>3</sub> OH (67-56-1)	-	Р	-
	Methyl ethyl ketone (MEK, butanone)	CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub> (78-93-3)	-	Р	-
	Propan-1-ol CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH (Propyl alcohol)				-
and	(Diethanolamine (DEA) 2,2'-iminodiethanol)	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (111-42-2)	-	Ex	-
Amines and Amides		CH <sub>3</sub> N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (105-59-9)	-	Ex	-
4	Monoethanolamine (MEA) (2-aminoethanol)	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH (141-43-5)	-	Ex	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Executive	_A	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
dood	O	suitable for short-term immersion and general chemical contact
Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
ivioderate	IVI	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Door	ā	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
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





	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Ammonia	NH <sub>3</sub> (7664-41-7)	25%	G	-
	Barium hydroxide	Ba(OH) <sub>2</sub>	-	Ex	
silis	Calcium hydroxide (lime water)	Ca(OH) <sub>2</sub>	-	Ex	
Alkalis	Magnesium hydroxide (milk of magnesia)	Mg(OH) <sub>2</sub>	-	Ex	
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20%	Ex	-
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50% 20%	Ex Ex	-
	Carbon dioxide (dry)	CO <sub>2</sub> (124-38-9)	-	Ex	-
Gases	Carbon monoxide	CO (630-08-0)	-	Ex	-
g	Hydrogen	H <sub>2</sub> (1333-74-0)	-	Ex	-
	Nitrogen	N <sub>2</sub> (7727-37-9)	-	Ex	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	G	-
	Benzene (benzol)	C <sub>6</sub> H <sub>6</sub> (71-43-2)	-	Р	-
	Crude oil	N/A	-	G	-
	Gasoline (petrol)	N/A (8032-32-4)	-	Р	-
	Heptane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (142-82-7)	-	М	-
Hydrocarbons	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)	-	M	-
lydroc	Kerosene	N/A (8008-20-6)	-	G	-
	Mineral Spirits / White Spirits (Turpentine, Stoddards Solvent)	N/A (8052-41-3)		G	
	Paraffin wax	N/A (8002-74-2)	-	G	-
	Petrolatum (Petroleum jelly)	N/A (8009-03-8)	-	G	-
	Toluene (methylbenzene, phenylmethane, toluol)	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (108-88-3)	-	Р	-
	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)	-	Р	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent	LA	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
no sign		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
Door	ā	significant deterioration / loss of barrier properties after 1 week or less
Poor	Р	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	Other
	Brake fluid	N/A		M	-
	Emulsion paint	N/A		Ex	-
	Fertilizer solutions	N/A		Ex	-
	Grease	N/A		Ex	-
	Ink (water based)	N/A		Ex	-
Miscellaneous	Mercury	Hg (7439-97-6)		Ex	-
Aiscella	Rubber latex emulsions	N/A		Ex	-
_	Silicone oil	N/A		Ex	-
	Starch	N/A		Ex	-
	Water Deionised, Fresh, Mineral, Sea	H <sub>2</sub> O (7732-18-5)	-	Ex	-
	Water/Oil Mixtures	N/A	-	Ex	-
	Wax emulsions	N/A	-	Ex	-
	Bunker oil	N/A	-	G	-
	Diesel oil	N/A	-	G	-
eral	Fuel oil	N/A	-	G	-
Oils - Mineral	Hydraulic oil	-	G	-	
Oils	Lube oil N/A -				-
	Petroleum oil	N/A	-	G	-
	Transformer oil	N/A	-	G	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Executive	_A	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.O. adamata	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
Door	ū	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
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68°F	Other
	Castor oil	N/A	-	G	-
	Coconut oil	N/A	-	G	-
	Cod liver oil	N/A	-	G	-
	Corn oil	N/A	-	G	-
lal	Cottonseed oil	N/A	-	G	-
e/Anin	Lard oil	N/A	-	G	-
getable	Linseed oil	N/A	-	G	-
Oils – Vegetable/Animal	Olive oil	N/A	-	G	-
Oii	Palm oil	N/A	-	G	-
	Pine oil	N/A	-	G	-
	Soybean oil	N/A	1	G	-
	Tall oil	N/A	-	G	-
	Tung oil	N/A	1	G	-
	Aluminium chloride	AICI <sub>3</sub> (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10043-01-3)	-	Ex	-
	Ammonium bicarbonate	(NH <sub>4</sub> )HCO <sub>3</sub> (1066-33-7)	-	Ex	-
lts	Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> (506-87-6)	-	Ex	-
Salts	Ammonium chloride	NH <sub>4</sub> Cl (12125-02-9)	-	Ex	-
	Ammonium phosphate	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub> (6484-52-2)	-	Ex	-
	Ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> (7783-20-2)	-	G	-

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Executive	_A	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
dood	O	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
Door	đ	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
Ex		<b>Bold</b> 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	Other
	Barium carbonate	BaCO <sub>3</sub> (513-77-9)	-	Ex	-
	Barium chloride	BaCl <sub>2</sub> (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO <sub>4</sub> (7727-43-7)	-	Ex	-
	Calcium carbonate	CaCO <sub>3</sub> (471-34-1)	-	Ex	-
	Calcium chloride	CaCl <sub>2</sub> (10043-52-4)	-	Ex	-
	Calcium hypochlorite	Ca(CIO) <sub>2</sub> (7778-54-3)	10%	M	-
	Calcium sulphate	CaSO <sub>4</sub> (7778-18-9)	-	Ex	-
	Copper acetate	Cu(CH <sub>3</sub> COO) <sub>2</sub>	-	Ex	-
	Copper chloride	CuCl <sub>2</sub> (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub> (3251-23-8)	-	Ex	-
Salts	Copper sulphate	CuSO <sub>4</sub> (7758-98-7)	-	Ex	-
	Ferric chloride	FeCl <sub>3</sub> (7705-08-0)	-	M	-
	Ferrous chloride	FeCl <sub>2</sub> (7758-94-3)	-	M	-
	Ferric sulphate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10028-22-5)	-	M	-
	Ferrous sulfate	FeSO <sub>4</sub> (7720-78-7)	-	M	-
	Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub> (301-04-2)	-	Ex	-
	Magnesium chloride	MgCl <sub>2</sub> (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	MgSO <sub>4</sub> (7487-88-9)	-	Ex	-
	Nickel chloride	NiCl <sub>2</sub> (7718-54-9)	-	Ex	-
	Potassium bromide	KBr (7758-02-3)	-	Ex	-
	Potassium chlorate	KCIO <sub>3</sub> (3811-04-9)	-	Ex	-

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Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
dood	O	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
Door	đ	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
Ex		<b>Bold</b> 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	Other
	Potassium chloride	KCI (7447-40-7)	-	Ex	-
	Potassium cyanide	KCN (151-50-8)	-	Ex	-
	Potassium ferrocyanide	K <sub>4</sub> [Fe(CN) <sub>6</sub> ] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO <sub>3</sub> (7757-79-1)	-	Ex	-
	Potassium permanganate	KMnO <sub>4</sub> (7722-64-7)	-	Ex	-
	Potassium sulfate	K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	-	Ex	-
	Silver nitrate	AgNO <sub>3</sub> (7761-88-8)	-	Ex	-
	Sodium acetate	CH <sub>3</sub> COONa (127-09-3)	-	Ex	-
	Sodium borate (borax)	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> (1303-96-4)	-	Ex	-
Salts	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium chlorate	NaClO <sub>3</sub> (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
	Sodium chromate	Na <sub>2</sub> CrO <sub>4</sub> (7775-11-3)	-	Ex	-
	Sodium cyanide	NaCN (143-33-9)	-	Ex	-
	Sodium fluoride	NaF (7681-49-4)	-	Ex	-
	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	M	-
	Sodium nitrate	NaNO <sub>3</sub> (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na <sub>2</sub> HPO <sub>4</sub> (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na <sub>3</sub> PO <sub>4</sub> (7601-54-9)	-	Ex	-
	Sodium silicate	Na <sub>2</sub> SiO <sub>3</sub> (6834-92-0)	-	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
dood	o	suitable for short-term immersion and general chemical contact
D.O. adamata	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
Door	ā	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
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(FN 10143)



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68°F	Other
	Sodium sulphate Na <sub>2</sub> SO <sub>4</sub> (7757-82		-	Ex	-
	Sodium sulphide	Na <sub>2</sub> S (1313-82-2)	-	Ex	-
Salts	Stannous chloride (tin chloride)	SnCl <sub>2</sub> (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl <sub>2</sub> (7646-85-7)	-	Ex	-
	Zinc sulfate	ZnSO <sub>4</sub> (7733-02-0)	-	Ex	-

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

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.