



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex	-
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	-	Р	-
	Hydrobromic acid	HBr (10035-10-6)	10%	М	-
ds	Hydrochloric acid	HCI	10% 5%	M	-
c Aci		(7647-01-0)	1%	G	
rgani	Nitric acid	HNO ₃ (7697-37-2)	5% 1%	G Ex	-
lno	Nitrous acid	HNO ₂	5%	G	-
	Dhaon haois a sid	(7/82-77-6)	1%	EX Ex	-
	orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	5%	Ex	-
		H ₂ SO.	1% 5%	Ex P	-
	Sulfuric acid	(7664-93-9)	1%	м	-
s	Acetic acid (ethanoic acid)	P G	-		
	Chloroacetic acid	-	Р	-	
	Chlorosulfonic acid (sulfurochloridic acid)	HSO ₃ Cl (7790-94-5)	-	Р	-
Acid	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	10%	Ex	-
Drganic	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	Р	-
0	Formic acid (methanoic acid)	HCOOH (64-18-6)	5%	Р	-
	Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	10%	Р	-
	Phenol	C ₆ H ₅ OH (108-95-2)	80%	Р	-
	n-Butanol (butvl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	-
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex	-
slohols	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	-
Alc	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	-
	Higher alcohols	$C_n H_{(2n+1)}OH$ where n > 2	-	Ex	-
	Methanol (methyl alcohol)	-	Ex	-	

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Moderate	м	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		significant deterioration / loss of barrier properties after 1 week or less not suitable for any application	
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ed	2-Methoxyethanol	C ₃ H ₈ O ₂	-	Ex	-
continue	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex	-
o sloho	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	-
Alco	Secondary alcohols	R ₁ R ₂ CHOH	-	Ex	-
1	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex	-
			30%	М	-
	Ammonia	NH₂	20%	G	-
		(7664-41-7)	10%	Ex	
			5%	Ex	-
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	Ex	-
alis	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	-
Alk	Magnesium hydroxide (milk of magnesia)	-	Ex	-	
	Botacsium hydroxida		40%	Ex	-
	(caustic potash)	KOH (1210 58 2)	20%	Ex - Ex - Ex -	
		(1310-36-3)	10%	Ex	-
	Sodium bydroxide	NaOH	50%	Ex	-
	(caustic soda)	(1310-73-2)	20%	Ex	-
	(00000000)		10%	Ex	-
	Aniline (Phenylamine)	C ₆ H ₅ NH ₂ (62-53-3)	-	Р	-
	Diethanolamine (DEA) (2,2'-iminodiethanol) HN(CH ₂ CH ₂ OH) ₂ (111-42-2)		-	Ex	-
	Diethylamine	CH ₃ CH ₂ NHCH ₂ CH ₃ (109-89-7)	-	Р	-
ides	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	Р	-
& Am	Dimethylformamide	(CH ₃) ₂ NC(O)H (68-12-2)	-	Р	-
nines	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex	-
An	Methylamine (25% in water)	CH ₃ NH ₂ (74-89-5)	25%	G	-
	Monoethanolamine (MEA) (2-aminoethanol)	Monoethanolamine (MEA) (2-aminoethanol) H ₂ NCH ₂ CH ₂ OH (141-43-5)			-
	Pyridine	C ₅ H ₅ N (110-86-1)	-	Р	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex	-

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	Beer (Pilsner)	N/A	-	Ex	-
uffs	Cider	N/A	-	Ex	-
dsti	Citrus juices	N/A	-	G	-
ŏ	Fermentation liquor	N/A	-	Ex	-
<u>8</u> F	Glucose	N/A	-	Ex	-
ges	Milk	N/A	-	G	-
erag	Sugar solution	N/A	-	Ex	-
eve	Vinegar (5% acetic acid)	N/A	-	Р	-
•	Whisky and Wine	N/A	-	Ex	-
	Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7)	-	G	-
	Butyl acetate	C ₆ H ₁₂ O ₂ (123-86-4)	-	G	-
	Dibutyl adipate	[CH ₂ CH ₂ CO ₂ (CH ₂) ₃ CH ₃] ₂ (105-99-7)	-	Ex	-
	Dibutyl phthalate	C ₁₆ H ₂₂ O ₄ (84-74-2)	-	Ex	-
s	Dibutyl sebacate	C ₁₈ H ₃₄ O ₄ (109-43-3)	-	Ex	-
ther	Dioctyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	-
's & E	Dioctyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-
Ester	Dioctyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂ (122-62-3)	-	Ex	-
	Diethyl ether	(C ₂ H ₅) ₂ O (60-29-7)	-	Ex	-
	Diphenyl isodecyl phosphate	C ₂₂ H ₃₁ O ₄ P (29761-21-5)	-	Ex	-
	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	G	-
	Isopropyl ether	C ₆ H ₁₄ O (108-20-3)	-	G	-
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	G	-
	Carbon dioxide (dry)	CO ₂ (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
ses	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex	-
Gat	Hydrogen	H ₂ (1333-74-0)	-	Ex	-
	Natural Gas (Methane)	CH ₄ (74-82-8)	-	Ex	-
	Nitrogen	N ₂ (7727-37-9)	-	Ex	-

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H	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	-
inuec	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	-
cont	Ozone (aqueous solution)	O ₃ (10028-15-6)	-	М	-
Gases	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	-
0	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	-
	Carbon tetrachloride	CCl ₄ (56-23-5)	-	М	-
	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	М	-
bons	Chloroform	CHCl ₃ (67-66-3)	-	М	-
locar	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	Р	-
На	Perchloroethylene (tetrachloroethylene)	Cl ₂ C=CCl ₂ (127-18-4)	-	G	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH ₃ CCl ₃ (71-55-6)	-	G	-
	Aviation fuel N/A (AVCAT, AVGAS, AVTAG, AVTUR)		-	Ex	-
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	G	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	G	-
	Gasoline – Ethanol free (Petrol)	N/A	-	Ex	-
rbons	Gasoline – Ethanol containing (Petrol)	N/A	-	Ex	-
droca	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex	-
Hye	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex	-
	lso-octane (2,2,4-trimethylpentane)	lso-octane (CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (2,2,4-trimethylpentane) (540-84-1)		Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	-
	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex	-

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	Styrene	C ₆ H ₅ CH=CH ₂ (100-42-5)	-	G	-
arbons nued	Toluene (methylbenzene, phenylmethane, toluol)	-	Ex	-	
ydroca contin	White Spirit (Stoddard solvent, Mineral spirits)	N/A (8052-41-3)	-	Ex	-
т	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	G	-
nes	Acetone	(CH ₃) ₂ CO (67-64-1)	-	Р	-
Keto	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Р	-
	Brake fluid	N/A	-	Ex	-
	Drilling mud	N/A	-	Ex	-
	Emulsion paint	N/A	-	Ex	-
	Fertilizer solutions	N/A	-	Ex	-
sno	Grease	N/A	-	Ex	-
ine	Ink (water based)	N/A	-	Ex	-
scella	Mercury	Hg (7439-97-6)	-	Ex	-
Ξ	Mine waters (acid)	N/A	-	Ex	-
	Oil/water mixtures	N/A	-	Ex	-
	Water, distilled	N/A	-	Ex	-
	Water, fresh	N/A	-	Ex	-
	Water, sea	N/A	-	Ex	-
_	Bunker oils (fuel oils)	N/A	-	Ex	-
era	Crude oil	N/A	-	Ex	-
۸in	Cutting oils, water emulsions	N/A	-	Ex	-
-	Diesel oil	N/A	-	Ex	-
oils	Lubricating oil	N/A	-	Ex	-
_	Transformer oil	N/A	-	Ex	-
/:	Castor oil	N/A	-	Ex	-
able	Coconut oil	N/A	-	Ex	-
get: mal	Cod liver oil	N/A	-	Ex	-
- Ve Ani	Corn oil	N/A	-	Ex	-
- sli	Linseed oil	N/A	-	Ex	-
0	Olive oil	N/A	-	Ex	-
	Aluminium chloride	AICI ₃ (7446-70-0)	10%	Ex	-
alts	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	10%	Ex	-
Sa	Ammonium chloride	NH ₄ Cl (12125-02-9)	10%	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄	10%	G	-

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Salts continued	Copper sulphate	CuSO ₄ (7758-98-7)	10%	Ex	
	Ferric chloride	FeCl ₃ (7705-08-0)	40%	Ex	-
	Ferric sulfate	Fe ₂ (SO ₄) ₃ (10028-22-5)	50%	Ex	-
	Ferrous chloride	FeCl ₂ (7758-94-3)	25%	G	-
	Ferrous sulfate	FeSO ₄ (7720-78-7)	25%	м	-
	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	G	-
	Sodium nitrate	NaNO ₃ (7631-99-4)	10%	Ex	-
	Sodium sulfate	Na ₂ SO ₄ (7757-82-6)	10%	Ex	-
	Sodium sulfide	Na ₂ S (1313-82-2)	10%	Ex	-

Excollent	Ev	no significant deterioration / barrier properties retained for greater than 52 weeks
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Good	e	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	9	suitable for short-term immersion and general chemical contact
Moderate	D/	no significant deterioration / barrier properties retained for 1 - 12 weeks
wouerate	IVI	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Poor		significant deterioration / loss of barrier properties after 1 week or less
PUUI	F	not suitable for any application
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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.