



	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	-
Inorganic Acids	Hydrochloric acid	HCI (7647-01-0)	10% 5% 1%	M M G	
rganic	Nitric acid	HNO ₃ (7697-37-2)	5% 1%	G Ex	-
oul	Nitrous acid	HNO ₂ (7782-77-6)	5% 1%	G Ex	
	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	10% 5% 1%	Ex Ex Ex	- - -
	Sulfuric acid	H ₂ SO ₄ (7664-93-9)	5% 1%	P M	-
	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	5% 1%	P G	- -
	Chloroacetic acid	CICH ₂ COOH (79-11-8)	-	Р	-
s	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	-
Organic Acids	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 (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	-
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex	-
Alcohols	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)	-	Ex	-	
	Higher alcohols Methanol	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex	-
	(methyl alcohol)	CH ₃ OH (67-56-1)	-	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		no significant deterioration / barrier properties retained for 12 - 52 weeks
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	20 °C 68 °F	Other
ed	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	Ex	-
Alcohols continued	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex	-
ohols c	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	-
	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex	-
			30%	М	-
	Ammonia	NH₃	20%	G	-
		(7664-41-7)	10%	Ex	
			5%	Ex	-
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	Ex	-
Alkalis	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	-
AIK	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex	-
	Potassium hydroxide	КОН	40%	Ex	-
	(caustic potash)	(1310-58-3)	20%	Ex	-
		(,	10%	Ex	-
	Sodium hydroxide	NaOH	50%	Ex	-
	(caustic soda)	(1310-73-2)	20%	Ex	-
			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	-
Amines & Amides	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex	-
A	Methylamine (25% in water)	CH ₃ NH ₂ (74-89-5)	25%	G	-
	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	Ex*	-
	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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Poor P significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		5
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s	Beer (Pilsner)	N/A	-	Ex	-
Beverages & Foodstuffs	Cider	N/A	-	Ex	-
dst	Citrus juices	N/A	-	G	-
l S	Fermentation liquor	N/A	-	Ex	-
ø	Glucose	N/A	-	Ex	-
ges	Milk	N/A	-	G	-
era	Sugar solution	N/A	-	Ex	-
Bev	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	-
Esters & Ethers	Dioctyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-
Estei	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	-
Gases	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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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	20 °C 68 °F	Other
_	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 continued	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	-
	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	-
Halocarbons	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 (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	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	-
Hydrocarbons	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	-
Ϋ́Η	Hexane	CH ₃ CH ₂ 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	-
	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	-
rbons ued	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex	-
Hydrocarbons continued	White Spirit (Stoddard solvent, Mineral spirits)	N/A (8052-41-3)	-	Ex	-
Ŧ	Xylene (dimethyl benzene, xylol)	C ₆ H4(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	-
Ketones	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	-
snc	Grease	N/A	-	Ex	-
nec	Ink (water based)	N/A	-	Ex	-
Miscellaneous	Mercury	Hg (7439-97-6)	-	Ex	-
Ϊ	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	-
Mineral	Cutting oils, water emulsions	N/A	-	Ex	-
1	Diesel oil	N/A	-	Ex	-
oils	Lubricating oil	N/A	-	Ex	-
	Transformer oil	N/A	-	Ex	-
e/	Castor oil	N/A	-	Ex	-
Oils - Vegetable/ Animal	Coconut oil	N/A	-	Ex	-
Vegeta Animal	Cod liver oil	N/A	-	Ex	-
An -	Corn oil	N/A	-	Ex	-
Sils	Linseed oil	N/A	-	Ex	-
Ŭ	Olive oil	N/A	-	Ex	-
	Aluminium chloride	AICI ₃ (7446-70-0)	10%	Ex	-
Salts	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	10%	Ex	-
Ň	Ammonium chloride	NH ₄ Cl (12125-02-9)	10%	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	10%	G	-

E	-	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
0000	J	suitable for short-term immersion and general chemical contact
Moderate	м	no significant deterioration / barrier properties retained for 1 - 12 weeks
Woderate		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Poor	D	significant deterioration / loss of barrier properties after 1 week or less
PUUI	P	not suitable for any application
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	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	-
nued	Ferrous chloride	FeCl ₂ (7758-94-3)	25%	G	-
continued	Ferrous sulfate	FeSO ₄ (7720-78-7)	25%	м	-
Salts (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	_

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LACENEIIC	L.	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Guu	9	suitable for short-term immersion and general chemical contact
Moderate	м	no significant deterioration / barrier properties retained for 1 - 12 weeks
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