(FN 10143)



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Fluorosilicic acid (Dihydrogen hexafluorosilicate)	H ₂ SiF ₆ (16961-83-4)	-	Р	
vcids	Hydrochloric acid	HCI (7647-01-0)	20% 10%	P Ex	-
Inorganic Acids	Nitric acid	HNO ₃ (7697-37-2)	20% 10%	P M	-
Inor	Sulfuric acid	H ₂ SO ₄ (7664-93-9)	30% 20%	G Ex	-
	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	10% 10%	Ex M	-
Organic Acids	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	-	Р	-
Organi	Stearic acid	CH ₃ (CH ₂) ₁₆ CO ₂ H (57-11-4)	-	Ex	-
	Tartaric acid	C ₄ H ₆ O ₆ (526-83-0)	-	Ex	-
	Acetone	(CH ₃) ₂ CO (67-64-1)	-	Р	-
	Amyl alcohol (1-Pentanol)	C ₅ H ₁₁ OH (71-41-0)	-	Р	-
ones	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Р	-
nd Ket	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Р	-
ydes a	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	М	-
Aldeh	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	М	-
Alcohols, Aldehydes and Ketones	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Р	-
Alc	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Р	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Р	-
	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Р	-
and	(Diethanolamine (DEA) 2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	-
Amines and Amides	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex	-
A	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	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	
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	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	





	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Ammonia	NH ₃ (7664-41-7)	25%	G	-
	Barium hydroxide	Ba(OH) ₂	-	Ex	
Alkalis	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	
Alka	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	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 ₂ (124-38-9)	-	Ex	-
Gases	Carbon monoxide	CO (630-08-0)	-	Ex	-
Ga	Hydrogen	H ₂ (1333-74-0)	-	Ex	-
	Nitrogen	N ₂ (7727-37-9)	-	Ex	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	G	-
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Р	-
	Crude oil	N/A	-	G	-
	Gasoline (petrol)	N/A (8032-32-4)	-	Р	-
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	М	-
arbons	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	М	-
Hydrocarbons	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 ₆ H ₅ CH ₃ (108-88-3)	-	Р	-
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Р	-

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Poor	Р	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
	Brake fluid	N/A		М	-
	Emulsion paint	N/A		Ex	-
	Fertilizer solutions	N/A		Ex	-
	Grease	N/A		Ex	-
s	Ink (water based)	N/A		Ex	-
Miscellaneous	Mercury	Hg (7439-97-6)		Ex	-
Aiscell	Rubber latex emulsions	N/A		Ex	-
~	Silicone oil	N/A		Ex	-
	Starch	N/A		Ex	-
	Water Deionised, Fresh, Mineral, Sea	H ₂ 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	N/A	-	G	-
oils	Lube oil	N/A	-	G	-
	Petroleum oil	N/A	-	G	-
	Transformer oil	N/A	-	G	-

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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	-
oil	Palm oil	N/A	-	G	-
	Pine oil	N/A	-	G	-
	Soybean oil	N/A	-	G	-
	Tall oil	N/A	-	G	-
	Tung oil	N/A	-	G	-
	Aluminium chloride	AICI ₃ (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Ex	-
	Ammonium bicarbonate	(NH ₄)HCO ₃ (1066-33-7)	-	Ex	-
ts	Ammonium carbonate	(NH ₄) ₂ CO ₃ (506-87-6)	-	Ex	-
Salts	Ammonium chloride	NH ₄ Cl (12125-02-9)	-	Ex	-
	Ammonium phosphate	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	G	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68°F	Other
	Barium carbonate	BaCO ₃ (513-77-9)	-	Ex	-
	Barium chloride	BaCl ₂ (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Ex	-
	Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	-
	Calcium chloride	CaCl ₂ (10043-52-4)	-	Ex	-
	Calcium hypochlorite	Ca(CIO) ₂ (7778-54-3)	10%	М	-
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	-
	Copper acetate	Cu(CH ₃ COO) ₂ (142-71-2)	-	Ex	-
	Copper chloride	CuCl ₂ (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO ₃) ₂ (3251-23-8)	-	Ex	-
Salts	Copper sulphate	CuSO ₄ (7758-98-7)	-	Ex	-
	Ferric chloride	FeCl ₃ (7705-08-0)	-	М	-
	Ferrous chloride	FeCl ₂ (7758-94-3)	-	М	-
	Ferric sulphate	Fe ₂ (SO ₄) ₃ (10028-22-5)	-	М	-
	Ferrous sulfate	FeSO ₄ (7720-78-7)	-	М	-
	Lead acetate	Pb(CH ₃ COO) ₂ (301-04-2)	-	Ex	-
	Magnesium chloride	MgCl ₂ (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	-	Ex	-
	Nickel chloride	NiCl ₂ (7718-54-9)	-	Ex	-
	Potassium bromide	KBr (7758-02-3)	-	Ex	-
	Potassium chlorate	KClO ₃ (3811-04-9)	-	Ex	-

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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	K4[Fe(CN)6] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO3 (7757-79-1)	-	Ex	-
	Potassium permanganate	KMnO ₄ (7722-64-7)	-	Ex	-
	Potassium sulfate	K ₂ SO ₄ (7778-80-5)	-	Ex	-
	Silver nitrate	AgNO ₃ (7761-88-8)	-	Ex	-
	Sodium acetate	CH ₃ COONa (127-09-3)	-	Ex	-
	Sodium borate (borax)	Na ₂ B ₄ O ₇ (1303-96-4)	-	Ex	-
Salts	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium chlorate	NaClO ₃ (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
	Sodium chromate	Na ₂ CrO ₄ (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%	м	-
	Sodium nitrate	NaNO ₃ (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na ₃ PO ₄ (7601-54-9)	-	Ex	-
	Sodium silicate	Na ₂ SiO ₃ (6834-92-0)	-	Ex	-

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	Sodium sulphate	Na ₂ SO ₄ (7757-82-6)	-	Ex	-
	Sodium sulphide Na ₂ S (1313-82-2		-	Ex	-
Salts	Stannous chloride (tin chloride)	SnCl ₂ (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl ₂ (7646-85-7)	-	Ex	-
	Zinc sulfate	ZnSO ₄ (7733-02-0)	-	Ex	-

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