

	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)	-	М	-
	Hydrobromic acid	HBr (10035-10-6)	10%	Ex	-
	Hydrochloric acid	HCl (7647-01-0)	35% 20% 10%	M G Ex	- - -
Inorganic Acids	Nitric acid	HNO ₃ (7697-37-2)	50% 20% 10%	P G G	- - -
norga	Nitrous acid	HNO ₂ (7782-77-6)	20%	Ex	-
-	Oleum	(1102 11 0)	-	Р	-
	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	20% 10% 5%	G G Ex	-
	Sulfuric acid	H ₂ SO₄	98% 50%	P M	- - -
	Sullulic acid	(7664-93-9)	20% 10%	G Ex	- -
	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	50% 20% 10%	P M M	- -
	Chloroacetic acid	CICH₂COOH	-	M	-
ş	Chlorosulfonic acid (sulfurochloridic acid)	(79-11-8) HSO ₃ Cl (7790-94-5)	-	M	-
ic Ac	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	G	-
Organic Acids	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	Р	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20% 10%	M M	- -
	Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	10%	G	-
	Phenol	C ₆ H ₅ OH (108-95-2)	80%	Р	-
	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	-
sloi	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	G	-
Alcohols	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	-
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	-
	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other	
d	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	G	-	
inue	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	Ex	-	
Alcohols continued	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex	-	
Icoho	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	-	
⋖	Secondary alcohols	R₁R₂CHOH	1	Ex	-	
	Tertiary alcohols	R₁R₂R₃COH	-	Ex	=	
		NII.	30%	G	-	
	Ammonia	NH ₃ (7664-41-7)	20% 10%	Ex Ex	- -	
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	Ex	-	
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	-	
Alkalis	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex	-	
⋖			40%	G	-	
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20%	Ex	-	
	(caustic potasii)	(1310-36-3)	10%	Ex	-	
			50%	Ex		
	Sodium hydroxide	NaOH	40%	Ex	-	
	(caustic soda)	(1310-73-2)	20%	Ex	=	
			10%	Ex	-	
	Aniline (Phenylamine)	C ₆ H ₅ NH ₂ (62-53-3)	-	M	-	
Se	Diethanolamine	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	-	
Amides	Diethylamine	CH ₃ CH ₂ NHCH ₂ CH ₃ (109-89-7)	-	Р	-	
es & /	Dimethylformamide	(CH ₃) ₂ NC(O)H (68-12-2)	-	Р	-	
Amines &	Methylamine (25% in water)	CH ₃ NH ₂ (74-89-5)	-	Ex	-	
	Pyridine Triethanolamine (TEA)	C ₅ H ₅ N (110-86-1)	-	Р	-	
	(2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex	-	
ş	Beer		-	Ex	-	
tuf	Cider		-	Ex	-	
ŏo	Citrus juices		-	Ex Ex	-	
F	Glucose	Fermentation liquor				
es 8	Milk		-	Ex G	-	
rag	Sugar solution		-	Ex	-	
Beverages & Foodstuffs	Vinegar		-	G	-	
B	Whisky and Wine		-	M	-	
-	,					

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7)	-	Ex	-
	Butyl acetate	C ₆ H ₁₂ O ₂ (123-86-4)	-	Ex	-
	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	-
Esters & Ethers	Dioctyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	-
rs & I	Dioctyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-
ste	Dioctyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂	-	Ex	-
ш	Diethyl ether	(C ₂ H ₅) ₂ O	-	Ex	-
	Diphenyl isodecyl phosphate	C ₂₂ H ₃₁ O ₄ P	-	Ex	-
	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	Ex	-
	Isopropyl ether	C ₆ H ₁₄ O (108-20-3)	-	Ex	-
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	Ex	-
	Carbon dioxide (dry)	CO ₂ (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex	-
	Hydrogen	H ₂ (1333-74-0)	-	Ex	-
S	Natural Gas (Methane)	CH ₄	-	Ex	-
Gases	Nitrogen	N ₂ (7727-37-9)	-	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	-
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	-
	Ozone (aqueous solution)		-	M	-
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Carbon tetrachloride	CCI ₄ (56-23-5)	-	G	-
	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	G	-
Halocarbons	Chloroform	CHCl ₃ (67-66-3)	-	G	-
arbe	Dry cleaning fluids		-	G	-
000	Methylene chloride	CH_2Cl_2	_	Р	_
На	(dichloromethane)	(75-09-2)		'	
	Perchloroethylene	$Cl_2C=CCl_2$	-	G	-
	(tetrachloroethylene)	(127-18-4)			
	1,1,1, - Trichloroethane	CH₃CCl₃	-	G	-
	(methyl chloroform)	(71-55-6)			
	Aviation fuel	N/A	-	Ex	-
	(AVCAT, AVGAS, AVTAG, AVTUR)				
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex	-
-		C ₆ H ₁₂		_	
	Cyclohexane	(110-82-7)	-	Ex	=
	Gasoline – Ethanol free		_	Ex	_
	(Petrol)			LX	
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex	-
SI	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	Ex	-
Hydrocarbons	lso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex	-
ydro	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	-
	Styrene	C ₆ H ₅ CH=CH ₂ (100-42-5)	-	Ex	-
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex	-
	White Spirit (Stoddard solvent, Mineral spirits)	(8052-41-3)	-	Ex	-
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	-
nes	Acetone	(CH ₃) ₂ CO	-	М	-
Ketones	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	М	-
	Brake fluid	· ·	-	Ex	-
snc	Drilling mud		-	Ex	-
nec	Emulsion paint		-	Ex	-
ella	Fertilizer solutions		-	Ex	-
Miscellaneous	Grease		-	Ex	-
≥ -	Ink (water based)		-	Ex	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
σ	Mercury	Hg	=	Ex	-
Miscellaneous continued	Mine waters (acid)		-	Ex	-
iscellaneou continued	Oil/water mixtures		-	Ex	-
le in	Water, distilled		=	Ex	-
Ais o	Water, fresh		-	Ex	-
-	Water, sea		-	Ex	-
_	Bunker oils (fuel oils)		=	Ex	-
Mineral	Crude oil		-	Ex	=
l ië l	Cutting oils, water emulsions		-	Ex	-
	Diesel oil		-	Ex	-
Oils	Lubricating oil		-	Ex	-
	Transformer oil		-	Ex	-
·	Castor oil		-	Ex	-
l ap	Coconut oil		-	Ex	-
Vegeta	Cod liver oil		-	Ex	-
) A	Corn oil		-	Ex	-
Oils - Vegetable/ Animal	Linseed oil		-	Ex	-
\vdash	Olive oil		-	Ex	-
	Aluminium chloride (dry)	AICl ₃ (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Ex	-
	Alums	Alums -		Ex	-
-	Ammonium bicarbonate	(1066-33-7)		Ex	-
-	Ammonium carbonate	(NH ₄) ₂ CO ₃ (506-87-6)	-	Ex	-
	Ammonium chloride	NH ₄ Cl (12125-02-9)	-	Ex	-
	Ammonium monophosphate	NH ₄ H ₂ PO ₄ (7722-76-1)	-	Ex	-
	Ammonium phosphate (dibasic)	(NH ₄) ₂ HPO ₄ (7783-28-0)	-	Ex	-
Salts	Ammonium phosphate (tribasic)	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	-
Š	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	-
-	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	Ex	-
-	Antimony trichloride	SbCl ₃ (10025-91-9)	-	Ex	-
	Barium carbonate	BaCO ₃ (513-77-9)	-	Ex	-
	Barium chloride	(10361-37-2)		Ex	-
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Ex	-
	Brines		=	Ex	=
	Calcium bisulfite	Ca(HSO ₃) ₂ (13780-03-5)	-	Ex	-
	Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
	Calcium chloride		=	Ex	-
	Calcium hypochlorite	Ca(CIO) ₂ (7778-54-3)	-	Ex	-
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	-
	Chrome alum	KCr(SO ₄) ₂ (10141-00-1)	-	Ex	-
	Copper acetate	Cu(CH ₃ COO) ₂	-	Ex	-
	Copper chloride	CuCl ₂ (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO ₃) ₂ (3251-23-8)	-	Ex	-
	Copper sulphate	CuSO ₄ (7758-98-7)	-	Ex	-
	Ferric chloride (dry)	FeCl ₃ (7705-08-0)	-	Ex	-
	Ferric nitrate	Fe(NO ₃) ₃ (10421-48-4)	-	Ex	-
	Ferric sulfate	Fe ₂ (SO ₄) ₃ (10028-22-5)	-	Ex	-
	Ferrous chloride	FeCl ₂ (7758-94-3)	-	Ex	-
per	Ferrous sulfate	FeSO ₄ (7720-78-7)	-	Ex	-
ontin	Lead acetate	Pb(CH ₃ COO) ₂ (301-04-2)	-	Ex	-
Salts continued	Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Ex	-
SS	Magnesium chloride	MgCl ₂ (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	-	Ex	-
	Mercuric chloride	HgCl ₂ (7487-94-7)	-	Ex	-
	Mercuric cyanide	Hg(CN) ₂ (592-04-1)	-	Ex	-
	Nickel ammonium sulfate	(NH ₄) ₂ Ni(SO ₄) ₂ (7785-20-8)	-	Ex	-
	Nickel chloride	NiCl ₂ (7718-54-9)	-	Ex	-
	Nickel nitrate	Ni(NO ₃) ₂ (13138-45-9)	-	Ex	-
	Nickel sulfate	NiSO ₄ (7786-81-4)	-	Ex	-
	Potassium aluminium sulphate (potash alum)	KAI(SO ₄) ₂ (10043-67-1)	-	Ex	-
	Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Ex	-
	Potassium bromide	KBr (7758-02-3)	-	Ex	-
	Potassium carbonate	K ₂ CO ₃ (584-08-7)	-	Ex	-

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	Potassium chlorate	KCIO ₃ (3811-04-9)	-	Ex	-
	Potassium chloride	KCI (7447-40-7)	-	Ex	-
	Potassium cyanide	KCN (151-50-8)	-	Ex	-
	Potassium dichromate	K ₂ Cr ₂ O ₇ (7778-50-9)	-	Ex	-
	Potassium diphosphate	K ₂ HPO ₄ (7758-11-4)	-	Ex	-
	Potassium ferricyanide	K ₃ [Fe(CN) ₆] (13746-66-2)	-	Ex	-
	Potassium ferrocyanide	K ₄ [Fe(CN) ₆] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO ₃ (7757-79-1)	=	Ex	-
	Potassium permanganate	KMnO ₄ (7722-64-7)	-	Ex	-
	Potassium sulfate	K ₂ SO ₄ (7778-80-5)	-	Ex	-
	Potassium sulfide	K ₂ S (1059-82-5)	-	Ex	-
ned	Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Ex	-
Salts continued	Silver nitrate	AgNO ₃ (7761-88-8)	-	Ex	-
alts c	Sodium acetate	CH ₃ COONa (127-09-3)	-	Ex	-
S	Sodium aluminate	NaAlO ₂ (1302-42-7)	-	Ex	-
	Sodium bicarbonate	NaHCO ₃ (144-55-8)	-	Ex	-
	Sodium bisulfate	NaHSO ₄ (7681-38-1)	-	Ex	-
	Sodium bisulfite	NaHSO ₃ (7631-90-5)	-	Ex	-
	Sodium borate (borax)	Na ₂ B ₄ O ₇ (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium carbonate (soda ash)	Na ₂ CO ₃ (497-19-8)	-	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	-

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CHEMICAL RESISTANCE OF BELZONA® 1111





	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
-	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	G	-
	Sodium metaphosphate	(NaPO ₃) ₆ (10124-56-8)	-	Ex	-
	Sodium metasilicate (sodium silicate)	Na ₂ SiO ₃ (6834-92-0)	-	Ex	-
	Sodium nitrate	NaNO ₃ (7631-99-4)	-	Ex	-
per	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Ex	-
Salts continued	Sodium phosphate (tribasic)	Na ₃ PO ₄ (7601-54-9)	-	Ex	-
	Sodium sulfate	Na ₂ SO ₄ (7757-82-6)	-	Ex	-
	Sodium sulfide	Na ₂ S (1313-82-2)	-	Ex	-
	Stannous chloride (tin chloride)	SnCl ₂ (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl ₂ (7646-85-7)	-	Ex	-
	Zinc hydrosulfite	ZnS ₂ O ₄ (7779-86-4)	-	Ex	-
	Zinc sulfate	ZnSO ₄ (7733-02-0)	-	Ex	-

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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.