

CHEMICAL RESISTANCE OF BELZONA® 4181

FN 10079



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Inorganic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex	-
	Chromic acid	H ₂ CrO ₄ (7738-94-5)	40%	P	-
			10%	Ex	-
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	30%	Ex	-
			10%	Ex	-
	Hydrobromic acid	HBr (10035-10-6)	40%	Ex	-
			10%	Ex	-
	Hydrochloric acid	HCl (7647-01-0)	36%	Ex	-
			10%	Ex	-
	Nitric acid	HNO ₃ (7697-37-2)	70%	P	-
			65%	Ex	-
			60%	Ex	-
			50%	Ex	-
			30%	Ex	-
15%			Ex	-	
Nitrous acid	HNO ₂ (7782-77-6)	20%	Ex	-	
Oleum		65%	P	-	
Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	85%	Ex	-	
		40%	Ex	-	
		10%	Ex	-	
Sulfuric acid	H ₂ SO ₄ (7664-93-9)	100%	P	-	
		98%	Ex	-	
		50%	Ex	-	
		20%	Ex	-	
		10%	Ex	-	
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	Glacial	Ex	-
			70%	P	-
			50%	Ex*	-
			20%	Ex	-
			10%	Ex	-
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	Ex	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	Ex	-
	Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	85%	Ex	-
			10%	Ex	-
	Maleic acid	HO ₂ CCHCHCO ₂ H (110-16-7)	-	Ex	-
	Salicylic acid	C ₆ H ₄ (OH)COOH (69-72-7)	-	Ex	-
Stearic acid (solid)	CH ₃ (CH ₂) ₁₆ CO ₂ H (57-11-4)	-	Ex	-	
Tannic acid	C ₇₆ H ₅₂ O ₄₆ (1401-55-4)	-	Ex	-	
Tartaric acid	HO ₂ CCH(OH)CH(OH)CO ₂ H (526-83-0)	-	Ex	-	

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Poor	P	Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.
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Alcohols	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	-
	2-Ethoxyethanol (Cellosolve)	C ₄ H ₁₀ O ₂ (110-80-5)	-	Ex	-
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex	-
	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	-
	1-Hexanol	CH ₃ (CH ₂) ₅ OH (111-27-3)	-	Ex	-
	Isobutanol	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex	-
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex	-
	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	Ex	-
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	-
Alkalis	Ammonia	NH ₃ (7664-41-7)	25% 10%	Ex Ex	- -
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	-
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20% 10%	Ex Ex	- -
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	40% 10%	Ex Ex	- -
Amines & Amides	Aniline (Phenylamine)	C ₆ H ₅ NH ₂ (62-53-3)	-	Ex	-
	Dibutylamine	C ₈ H ₁₉ N (111-92-2)	-	M	-
	Diethanolamine	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	-
	Diethylenetriamine	HN(CH ₂ CH ₂ NH ₂) ₂ (111-40-0)	-	M	-
	Dimethylamine	(CH ₃) ₂ NH (124-40-3)	-	M	-
	Dimethylformamide	(CH ₃) ₂ NC(O)H (68-12-2)	-	P	-
	Hydrazine	N ₂ H ₄ (302-01-2)	-	Ex	-

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Amines & Amides continued	Methylamine (40% aqueous)	CH ₃ NH ₂ (74-89-5)	-	Ex	-
	Methylamine (gas)	CH ₃ NH ₂ (74-89-5)	-	Ex	-
	Pyridine	C ₅ H ₅ N (110-86-1)	-	P	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex	-
	Triethylenetetramine	[CH ₂ NHCH ₂ CH ₂ NH ₂] ₂ (112-24-3)	-	Ex	-
Esters & Ethers	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	-
	N-Butyl ether	C ₈ H ₁₈ O (142-96-1)	-	Ex	-
	Dibutyl phthalate	C ₁₆ H ₂₂ O ₄ (84-74-2)	-	Ex	-
	Dibutyl sebacate	C ₁₈ H ₃₄ O ₄ (109-43-3)	-	Ex	-
	Diethyl ether	(C ₂ H ₅) ₂ O (60-29-7)	-	Ex	-
	Diethyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	-
	Diethyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-
	Diethyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂	-	Ex	-
	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	Ex	-
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	Ex	-
	Propylene glycol monomethyl ether acetate	CH ₃ CO ₂ CH(CH ₃)CH ₂ OCH ₃ (108-65-6)	-	Ex	-
	Tributyl phosphate	(CH ₃ CH ₂ CH ₂ CH ₂ O) ₃ PO (126-73-8)	-	Ex	-
Halocarbons	Carbon tetrachloride	CCl ₄ (56-23-5)	-	Ex	-
	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	Ex	-
	Chloroform	CHCl ₃ (67-66-3)	-	Ex	-
	Ethylene dichloride (1,2-dichloroethane)	C ₂ H ₄ Cl ₂ (107-06-2)	-	Ex	-
	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	Ex	-
	Perchloroethylene (tetrachloroethylene)	Cl ₂ C=CCl ₂ (127-18-4)	-	Ex	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH ₃ CCl ₃ (71-55-6)	-	Ex	-
	Trichlorotrifluoroethane (CFC-113)	Cl ₂ FC-CClF ₂ (76-13-1)	-	Ex	-

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Hydrocarbons	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex	-
	Ethane	C ₂ H ₆ (74-84-0)	-	Ex	-
	Gasoline – Ethanol free (Petrol)		-	Ex	-
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-5)	-	Ex	-
	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex	-
	Iso-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	-
	Naphtha		-	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	-
	Petroleum naphtha		-	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	-
	Turpentine	N/A (8006-64-2)	-	Ex	-
	White Spirit (Stoddard solvent, Mineral spirits)	N/A (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	-	
Ketones	Acetone	(CH ₃) ₂ CO (67-64-1)	-	Ex*	-
	Formaldehyde	HCHO (50-00-0)	37%	Ex	-
	Methyl amyl ketone (2-Heptanone)	C ₇ H ₁₄ O (110-43-0)	-	Ex	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex	-
Miscellaneous	Brake fluid		-	Ex	-
	Bromine water (saturated)		-	Ex	-
	Carbon disulphide	CS ₂ (75-15-0)	-	Ex	-
	Dimethyl sulfoxide	(CH ₃) ₂ SO (67-68-5)	-	Ex	-
	Emulsion paint		-	Ex	-
	Ethylethoxypropionate	C ₇ H ₁₄ O ₃ (763-69-9)	-	Ex	-
	Fertilizer solutions		-	Ex	-

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Miscellaneous continued	Grease		-	Ex	-
	Hydrogen peroxide	H ₂ O ₂ (7722-84-1)	35%	Ex	-
	Ink (water based)		-	Ex	-
	Isothiazolinone	C ₃ H ₃ NOS (1003-07-2)	-	Ex	-
	Mesitylene (1,3,5-trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Ex	-
	N-Methylpyrrolidone	C ₅ H ₉ NO (872-50-4)	-	Ex	-
	Naphthalene	C ₁₀ H ₈ (91-20-3)	-	Ex	-
	Pyrrole	C ₄ H ₄ NH (109-97-7)	-	Ex	-
	Resins & rosins (natural)		-	Ex	-
	Roof pitch		-	Ex	-
	Rubber latex emulsions		-	Ex	-
	Sewage		-	Ex	-
	Skydrol		-	Ex	-
	Starch		-	Ex	-
	Tar		-	Ex	-
	Tetraethyl lead	(CH ₃ CH ₂) ₄ Pb (78-00-2)	-	Ex	-
	Urea	CO(NH ₂) ₂ (57-13-6)	-	Ex	-
	Water, distilled		-	Ex	-
Water, fresh		-	Ex	-	
Water, sea		-	Ex	-	
Oils - Mineral	Castor oil		-	Ex	-
	Coconut oil		-	Ex	-
	Cod liver oil		-	Ex	-
	Corn oil		-	Ex	-
	Diesel oil		-	Ex	-
	Hydraulic oil		-	Ex	-
	Lubricating oil		-	Ex	-
	Oil, petroleum		-	Ex	-
	Oil/water mixtures		-	Ex	-
	Silicone oil		-	Ex	-
	Soybean oil		-	Ex	-
	Transfer oil		-	Ex	-
Tung oil		-	Ex	-	
Salts	Aluminium chloride (dry)	AlCl ₃ (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Ex	-
	Alums		-	Ex	-
	Ammonium bicarbonate	(NH ₄)HCO ₃ (1066-33-7)	-	Ex	-

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Salts continued	Ammonium fluorosilicate	(NH ₄) ₂ SiF ₆ (16919-19-0)	-	Ex	-
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	-
	Ammonium phosphate	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	Ex	-
	Barium carbonate	BaCO ₃ (513-77-9)	-	Ex	-
	Barium chloride	BaCl ₂ (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Ex	-
	Barium sulphide	BaS (21109-95-5)	-	Ex	-
	Brines		-	Ex	-
	Bromine chloride	BrCl (13863-41-7)	-	Ex	-
	Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	-
	Calcium chloride	CaCl ₂ (10043-52-4)	-	Ex	-
	Calcium fluoride	CaF ₂ (7789-75-5)	-	Ex	-
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Ex	-
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	-
	Chromium potassium sulphate (Chrome alum)	KCr(SO ₄) ₂ (10141-00-1)	-	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	-
	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	-	
Ferrous sulfate	FeSO ₄ (7720-78-7)	-	Ex	-	
Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Ex	-	

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Salts continued	Magnesium carbonate	MgCO ₃ (546-93-0)	-	Ex	-
	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 sulphate	NiSO ₄ (7786-81-4)	-	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	-
	Potassium chlorate	KClO ₃ (3811-04-9)	-	Ex	-
	Potassium chloride	KCl (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 (1312-73-8)	-	Ex	-	
Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Ex	-	
	Quaternary ammonium salts		-	Ex	-

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Salts continued	Silver nitrate	AgNO ₃ (7761-88-8)	-	Ex	-
	Sodium acetate	CH ₃ COONa (127-09-3)	-	Ex	-
	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	-
	Sodium fluorosilicate	Na ₂ SiF ₆ (16893-85-9)	-	Ex	-
	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	Ex*	-
	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	-
	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Ex	-
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	-	

Excellent	Ex	Suitable for all reasonable applications involving immersion for short periods.
Moderate	M	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.
Poor	P	<i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i>
*		Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona.
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
Note:		Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance or colour stability following contact.

CHEMICAL RESISTANCE OF BELZONA® 4181

FN 10079



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Salts continued	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	-

Excellent	Ex	Suitable for all reasonable applications involving immersion for short periods.
Moderate	M	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.
Poor	P	<i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i>
*		Product must be post cured to deliver quoted chemical resistance. As for general guidance, the coating should be subjected to the following conditions as a minimum; 1hr at 100 °C/2hrs at 90 °C/4hrs at 80 °C/8hrs at 70 °C/16hrs at 60 °C. For specific recommendations, please contact Belzona.
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
Note:		Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance or colour stability following contact.

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