

CHEMICAL RESISTANCE OF BELZONA® 4111

FN 10007



	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%	M	-
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	30%	M	-
			10%	G	-
	Hydrobromic acid	HBr (10035-10-6)	40%	G	-
			10%	Ex	-
	Hydrochloric acid	HCl (7647-01-0)	36%	P	-
			10%	Ex	-
	Nitric acid	HNO ₃ (7697-37-2)	65%	P	-
			30%	P	-
10%			G	-	
Nitrous acid	HNO ₂ (7782-77-6)	20%	Ex	-	
Oleum		65%	P	-	
Perchloric acid	HClO ₄ (7601-90-3)	60%	P	-	
Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	85%	P	-	
		30%	G	-	
		10%	G	-	
Sulfuric acid	H ₂ SO ₄ (7664-93-9)	100%	P	-	
		98%	P	-	
		50%	M	-	
		20%	M	-	
		10%	G	-	
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	50%	P	-
			20%	P	-
			10%	P	-
	Acrylic acid	CH ₂ =CHCO ₂ H (79-10-7)	-	P	-
	Chlorosulfonic acid (sulfurochloridic acid)	HSO ₃ Cl (7790-94-5)	-	M	-
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	Ex	-
	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	P	-
	Folic acid	C ₁₉ H ₁₉ N ₇ O ₆ (59-30-3)	-	Ex	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	P	-
Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	85%	P	-	
		10%	G	-	
Maleic acid	HO ₂ CCHCHCO ₂ H (110-16-7)	-	Ex	-	

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Organic Acids continued	Phenol	C ₆ H ₅ OH (108-95-2)	80%	P	-
	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	-
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)	-	G	-
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	M	-
	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)	-	M	-
	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	G	-
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	-
Alkalis	Ammonia	NH ₃ (7664-41-7)	30% 10%	G 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)	-	M
Dibutylamine		C ₈ H ₁₉ N (111-92-2)	-	P	-
Diethanolamine		HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	-
Diethylenetriamine		HN(CH ₂ CH ₂ NH ₂) ₂ (111-40-0)	-	P	-
Dimethylamine		(CH ₃) ₂ NH (124-40-3)	-	M	-
Dimethylformamide		(CH ₃) ₂ NC(O)H (68-12-2)	-	P	-

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Amines & Amides continued	Hydrazine	N ₂ H ₄ (302-01-2)	-	P	-
	Methylamine (40% aqueous)	CH ₃ NH ₂ (74-89-5)	-	G	-
	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)	-	P	-
Beverages & Foodstuffs	Apple juice		-	Ex	-
	Beer		-	Ex	-
	Beet sugar		-	Ex	-
	Butter		-	Ex	-
	Buttermilk		-	Ex	-
	Cider		-	Ex	-
	Citrus juices		-	Ex	-
	Fermentation liquor		-	G	-
	Glucose		-	Ex	-
	Ketchup		-	Ex	-
	Margarine		-	Ex	-
	Mayonnaise		-	Ex	-
	Milk		-	Ex	-
	Molasses		-	Ex	-
	Mustard		-	Ex	-
	Salad Oil		-	Ex	-
	Sugar liquids		-	Ex	-
	Tomato juice		-	Ex	-
Vinegar		-	G	-	
Whisky and Wine		-	Ex	-	
Yeast		-	Ex	-	
Esters & Ethers	Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7)	-	M	-
	Butyl acetate	C ₆ H ₁₂ O ₂ (123-86-4)	-	M	-
	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	-
	Diocetyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	-
	Diocetyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-

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Esters & Ethers continued	Diocetyl sebacate	$(\text{CH}_2)_8(\text{COOC}_8\text{H}_{17})_2$	-	Ex	-
	Ethyl acetate	$\text{CH}_3\text{COOCH}_2\text{CH}_3$ (141-78-6)	-	M	-
	Methyl acetate	$\text{CH}_3\text{COOCH}_3$ (79-20-9)	-	M	-
	Propylene glycol monomethyl ether acetate	$\text{CH}_3\text{CO}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{OCH}_3$ (108-65-6)	-	G	-
	Tributyl phosphate	$(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{O})_3\text{PO}$ (126-73-8)	-	Ex	-
Gases	Butane	C_4H_{10} (106-97-8)	-	Ex	-
	Carbon dioxide	CO_2 (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Chlorine gas	Cl_2	-	G	-
	Hydrogen gas	H_2	-	Ex	-
	Hydrogen sulphide	H_2S (7783-06-4)	-	Ex	-
	Natural Gas (Methane)	CH_4	-	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N_2O (10024-97-2)	-	Ex	-
	Ozone (aqueous solution)	O_3 (10028-15-6)	-	P	-
	Sulphur dioxide	SO_2 (7446-09-5)	-	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO_3 (7446-11-9)	-	Ex	-
Halocarbons	Carbon tetrachloride	CCl_4 (56-23-5)	-	M	-
	Chlorobenzene	$\text{C}_6\text{H}_5\text{Cl}$ (108-90-7)	-	P	-
	Chloroform	CHCl_3 (67-66-3)	-	P	-
	Ethylene dichloride (1,2-dichloroethane)	$\text{C}_2\text{H}_4\text{Cl}_2$ (107-06-2)	-	P	-
	Methylene chloride (dichloromethane)	CH_2Cl_2 (75-09-2)	-	P	-
	Perchloroethylene (tetrachloroethylene)	$\text{Cl}_2\text{C}=\text{CCl}_2$ (127-18-4)	-	Ex	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH_3CCl_3 (71-55-6)	-	M	-
	Trichlorotrifluoroethane (CFC-113)	$\text{Cl}_2\text{FC}-\text{CClF}_2$ (76-13-1)	-	G	-
Hydrocarbons	Benzene (benzol)	C_6H_6 (71-43-2)	-	P	-
	Cyclohexane	C_6H_{12} (110-82-7)	-	Ex	-
	Ethane	C_2H_6 (74-84-0)	-	Ex	-

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Hydrocarbons continued	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)	-	M	-
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	P	-
	Turpentine	N/A (8006-64-2)	-	Ex	-
	White Spirit (Stoddard solvent, Mineral spirits)	N/A (8052-41-3)	-	Ex	-
Xylene (dimethyl benzene, xylo)	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)	-	P	-
	Formaldehyde	HCHO (50-00-0)	37%	Ex	-
	Methyl amyl ketone (2-Heptanone)	C ₇ H ₁₄ O (110-43-0)	-	M	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	P	-
Miscellaneous	Bleach		-	M	-
	Brake fluid		-	Ex	-
	Bromine water (saturated)		-	Ex	-
	Carbon disulphide	CS ₂ (75-15-0)	-	P	-
	Chlorine water (saturated)		-	Ex	-
	Dimethyl sulfoxide	(CH ₃) ₂ SO (67-68-5)	-	P	-
	Emulsion paint		-	Ex	-
	Ethylethoxypropionate	C ₇ H ₁₄ O ₃ (763-69-9)	-	M	-
	Fertilizer solutions		-	Ex	-
	Grease		-	Ex	-
	Hydrogen peroxide	H ₂ O ₂ (7722-84-1)	35%	M	-
	Ink (water based)		-	Ex	-
Isothiazolinone	C ₃ H ₃ NOS (1003-07-2)	-	Ex	-	

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Miscellaneous continued	Mesitylene (1,3,5-trimethylbenzene)	$C_6H_3(CH_3)_3$ (108-67-8)	-	G	-
	N-Methylpyrrolidone	C_5H_9NO (872-50-4)	-	P	-
	Naphthalene	$C_{10}H_8$ (91-20-3)	-	Ex	-
	Pyrrrole	C_4H_4NH (109-97-7)	-	P	-
	Resins & rosins (natural)		-	Ex	-
	Roof pitch		-	Ex	-
	Rubber latex emulsions		-	Ex	-
	Sewage		-	Ex	-
	Skydrol		-	G	-
	Starch		-	Ex	-
	Tar		-	Ex	-
	Tetraethyl lead	$(CH_3CH_2)_4Pb$ (78-00-2)	-	Ex	-
	Tetrahydrofuran	$(CH_2)_4O$ (109-99-9)	-	P	-
	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	-
	Ammonium fluorosilicate	$(NH_4)_2SiF_6$ (16919-19-0)	-	Ex	-
	Ammonium nitrate	NH_4NO_3 (6484-52-2)	-	Ex	-
	Ammonium phosphate	$(NH_4)_3PO_4$ (10361-65-6)	-	Ex	-

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Salts continued	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	-
	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	-	

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Salts continued	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 (1059-82-5)	-	Ex	-
	Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Ex	-
	Quaternary ammonium salts		-	Ex	-
	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	-	

Excellent	Ex	Suitable for all reasonable applications including immersion.
Good	G	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
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
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® 4111

FN 10007



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Salts continued	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)	15%	M	-
	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	-
	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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