

CHEMICAL RESISTANCE OF BELZONA® 4111

FN 10005



	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% 10%	P M	- -
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	30% 10%	M G	- -
	Hydrobromic acid	HBr (10035-10-6)	40% 10%	G Ex	- -
	Hydrochloric acid	HCl (7647-01-0)	36% 10%	P Ex	- -
	Nitric acid	HNO ₃ (7697-37-2)	65% 30% 10%	P P 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% 30% 10%	P G G	- - -
	Sulfuric acid	H ₂ SO ₄ (7664-93-9)	100% 98% 50% 20% 10%	P P M M G	- - - - -
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	50% 20% 10%	P P 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% 10%	P 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	-
Diocetyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂	-	Ex	-	

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Esters & Ethers continued	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	M	-
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	M	-
	Propylene glycol monomethyl ether acetate	CH ₃ CO ₂ CH(CH ₃)CH ₂ OCH ₃ (108-65-6)	-	G	-
	Tributyl phosphate	(CH ₃ CH ₂ CH ₂ CH ₂ O) ₃ PO (126-73-8)	-	Ex	-
Gases	Butane	C ₄ H ₁₀ (106-97-8)	-	Ex	-
	Carbon dioxide	CO ₂ (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Chlorine gas	Cl (7782-42-5)	-	G	-
	Hydrogen gas	H ₂ (1333-74-0)	-	Ex	-
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	-
	Natural Gas (Methane)	CH ₄ (75-09-2)	-	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (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	C ₆ H ₅ Cl (108-90-7)	-	P	-
	Chloroform	CHCl ₃ (67-66-3)	-	P	-
	Ethylene dichloride (1,2-dichloroethane)	C ₂ H ₄ Cl ₂ (107-06-2)	-	P	-
	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	P	-
	Perchloroethylene (tetrachloroethylene)	Cl ₂ C=CCl ₂ (127-18-4)	-	Ex	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH ₃ CCl ₃ (71-55-6)	-	M	-
	Trichlorotrifluoroethane (CFC-113)	Cl ₂ FC-CClF ₂ (76-13-1)	-	G	-
Hydrocarbons	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	P	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex	-
	Ethane	C ₂ H ₆ (74-84-0)	-	Ex	-
	Gasoline – Ethanol free (Petrol)		-	Ex	-

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Hydrocarbons continued	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	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, 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)	-	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	Brake fluid		-	Ex	-
	Bromine water (saturated)		-	Ex	-
	Carbon disulphide	CS ₂ (75-15-0)	-	P	-
	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	-
	Mesitylene (1,3,5-trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	G	-
N-Methylpyrrolidone	C ₅ H ₉ NO (872-50-4)	-	P	-	

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Miscellaneous continued	Naphthalene	C ₁₀ H ₈ (91-20-3)	-	Ex	-
	Pyrrrole	C ₄ H ₄ NH (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 ₃ CH ₂) ₄ Pb (78-00-2)	-	Ex	-
	Tetrahydrofuran	(CH ₂) ₄ O (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) 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	-	

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Salts continued	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	-
	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	-	

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Salts continued	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	-
	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	-	

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Salts continued	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%	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	-	

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

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.