CHEMICAL RESISTANCE OF BELZONA® 4111

FN 10209

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 ˚C 68 ˚F	Other
Inorganic Acids	Carbonic acid	H_2CO_3 (463-79-6)	-	Ex	-
	Chromic acid	H_2CrO_4 (7738-94-5)	40% 10%	P M	- -
	Fluorosilicic acid	H_2SiF_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_3PO_4 (7664-38-2)	85% 30% 10%	P G G	- - -
	Sulfuric acid	H_2SO_4 (7664-93-9)	100% 98% 50% 20% 10%	P P M M **G**	- - - -
Organic Acids	Acetic acid (ethanoic acid)	CH_3COOH (64-19-7)	50% 20% 10%	P P P	- - -
	Acrylic acid	$CH_2=CHCO_2H$ (79-10-7)	-	P	-
	Chlorosulfonic acid (sulfurochloridic acid)	HSO_3Cl (7790-94-5)	-	M	-
	Citric acid	$C_6H_8O_7$ (77-92-9)	-	Ex	-
	Cresylic acid (cresol)	C_7H_8O (1319-77-3)	-	P	-
	Folic acid	$C_{19}H_{19}N_7O_6$ (59-30-3)	-	Ex	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	P	-
	Lactic acid (2-hydroxypropanoic acid)	$CH_3CH(OH)(COOH)$ (50-21-5/79-33-4/10326-41-7)	85% 10%	P G	- -
	Maleic acid	$HO_2CCHCHCO_2H$ (110-16-7)	-	Ex	-

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Organic Acids continued	Phenol	C_6H_5OH (108-95-2)	80%	P	-
	Salicylic acid	$C_6H_4(OH)COOH$ (69-72-7)	-	Ex	-
	Stearic acid (solid)	$CH_3(CH_2)_{16}CO_2H$ (57-11-4)	-	Ex	-
	Tannic acid	$C_{76}H_{52}O_{46}$ (1401-55-4)	-	Ex	-
	Tartaric acid	$HO_2CCH(OH)CH(OH)CO_2H$ (526-83-0)	-	Ex	-
Alcohols	n-Butanol (butyl alcohol)	C_4H_9OH (71-36-3)	-	Ex	-
	2-Ethoxyethanol (Cellosolve)	$C_4H_{10}O_2$ (110-80-5)	-	G	-
	Ethanol (ethyl alcohol)	CH_3CH_2OH (64-17-5)	-	M	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	$(CH_2OH)_2$ (107-21-1)	-	Ex	-
	Glycerol (glycerine, propane-1,2,3-triol)	$HOCH_2CH(OH)CH_2OH$ (56-81-5)	-	Ex	-
	1-Hexanol	$CH_3(CH_2)_5OH$ (111-27-3)	-	Ex	-
	Isobutanol	$(CH_3)_2CHCH_2OH$ (78-83-1)	-	Ex	-
	Methanol (methyl alcohol)	CH_3OH (67-56-1)	-	**M**	-
	2-Methoxyethanol	$C_3H_8O_2$ (109-86-4)	-	G	
	Propylene glycol (1,2-Propanediol)	$CH_3CH(OH)CH_2OH$ (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)	$C_6H_5NH_2$ (62-53-3)	-	M	-
	Dibutylamine	$C_8H_{19}N$ (111-92-2)	-	P	-
	Diethanolamine	$HN(CH_2CH_2OH)_2$ (111-42-2)	-	Ex	-
	Diethylenetriamine	$HN(CH_2CH_2NH_2)_2$ (111-40-0)	-	P	-
	Dimethylamine	$(CH_3)_2NH$ (124-40-3)	-	M	-

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Amines & Amides continued	Dimethylformamide	$(CH_3)_2NC(O)H$ (68-12-2)	-	P	-
	Hydrazine	N_2H_4 (302-01-2)	-	P	-
	Methylamine (40% aqueous)	CH_3NH_2 (74-89-5)	-	G	-
	Methylamine (gas)	CH_3NH_2 (74-89-5)	-	Ex	-
	Pyridine	C_5H_5N (110-86-1)	-	P	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	$N(CH_2CH_2OH)_3$ (102-71-6)	-	Ex	-
	Triethylenetetramine	$[CH_2NHCH_2CH_2NH_2]_2$ (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	$CH_3COO(CH_2)_4CH_3$ (628-63-7)	-	M	-
	Butyl acetate	$C_6H_{12}O_2$ (123-86-4)	-	M	-
	N-Butyl ether	$C_8H_{18}O$ (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	$(C_2H_5)_2O$ (60-29-7)	-	Ex	-

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Esters & Ethers continued	Dioctyl adipate	$C_{22}H_{42}O_4$ (123-79-5)	-	Ex	-
	Dioctyl phthalate	$C_6H_4(C_8H_{17}COO)_2$ (117-81-7)	-	Ex	-
	Dioctyl sebacate	$(CH_2)_8(COOC_8H_{17})_2$	-	Ex	-
	Ethyl acetate	$CH_3COOCH_2CH_3$ (141-78-6)	-	M	-
	Methyl acetate	CH_3COOCH_3 (79-20-9)	-	M	-
	Propylene glycol monomethyl ether acetate	$CH_3CO_2CH(CH_3)CH_2OCH_3$ (108-65-6)	-	G	-
	Tributyl phosphate	$(CH_3CH_2CH_2CH_2O)_3PO$ (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	-	G	-
	Hydrogen gas	H	-	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	C_6H_5Cl (108-90-7)	-	P	-
	Chloroform	$CHCl_3$ (67-66-3)	-	P	-
	Ethylene dichloride (1,2-dichloroethane)	$C_2H_4Cl_2$ (107-06-2)	-	P	-
	Methylene chloride (dichloromethane)	CH_2Cl_2 (75-09-2)	-	P	-
	Perchloroethylene (tetrachloroethylene)	$Cl_2C=CCl_2$ (127-18-4)	-	Ex	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH_3CCl_3 (71-55-6)	-	M	
	Trichlorotrifluoroethane (CFC-113)	$Cl_2FC\text{-}CClF_2$ (76-13-1)	-	G	-

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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	-
	Gasoline – Ethanol free (Petrol)		-	Ex	-
	Heptane	$CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-7)	-	Ex	-
	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	Ex	-
	Iso-octane (2,2,4-trimethylpentane)	$(CH_3)_3CCH_2CH(CH_3)_2$ (540-84-1)	-	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	-
	Naphtha		-	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	-
	Petroleum naphtha		-	Ex	-
	Styrene	$C_6H_5CH=CH_2$ (100-42-5)	-	M	-
	Toluene (methylbenzene, phenylmethane, toluol)	$C_6H_5CH_3$ (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)	$C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	**Ex**	-
Ketones	Acetone	$(CH_3)_2CO$ (67-64-1)	-	P	-
	Formaldehyde	HCHO (50-00-0)	37%	Ex	-
	Methyl amyl ketone (2-Heptanone)	$C_7H_{14}O$ (110-43-0)	-	M	-
	Methyl ethyl ketone (MEK, butanone)	$CH_3C(O)CH_2CH_3$ (78-93-3)	-	P	-
Miscellaneous	Brake fluid		-	Ex	-
	Bromine water (saturated)		-	Ex	-
	Carbon disulphide	CS_2 (75-15-0)	-	P	-
	Dimethyl sulfoxide	$(CH_3)_2SO$ (67-68-5)	-	P	-
	Emulsion paint		-	Ex	-
	Ethylethoxypropionate	$C_7H_{14}O_3$ (763-69-9)	-	M	-
	Fertilizer solutions		-	Ex	-
	Grease		-	Ex	-

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Miscellaneous continued	Hydrogen peroxide	H_2O_2 (7722-84-1)	35%	M	-
	Ink (water based)		-	Ex	-
	Isothiazolinone	C_3H_3NOS (1003-07-2)	-	Ex	-
	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	-
	Pyrrole	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	-

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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	-
	Ammonium sulfate	$(NH_4)_2SO_4$ (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	$Cu(CH_3COO)_2$ (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	-

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Salts continued	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	$(NH_4)_2Ni(SO_4)_2$ (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_2CO_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	$K_2Cr_2O_7$ (7778-50-9)	-	Ex	-
	Potassium diphosphate	K_2HPO_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_2SO_4 (7778-80-5)	-	Ex	-

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Salts continued	Potassium sulfide	K_2S (1059-82-5)	-	Ex	-
	Potassium sulphite	K_2SO_3 (10117-38-1)	-	Ex	-
	Quaternary ammonium salts		-	Ex	-
	Silver nitrate	$AgNO_3$ (7761-88-8)	-	Ex	-
	Sodium acetate	CH_3COONa (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)	$Na_2B_4O_7$ (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium carbonate (soda ash)	Na_2CO_3 (497-19-8)	-	Ex	-
	Sodium chlorate	$NaClO_3$ (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
	Sodium chromate	Na_2CrO_4 (7775-11-3)	-	Ex	-
	Sodium cyanide	NaCN (143-33-9)	-	Ex	-
	Sodium fluoride	NaF (7681-49-4)	-	Ex	-
	Sodium fluorosilicate	Na_2SiF_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_2SiO_3 (6834-92-0)	-	Ex	-
	Sodium nitrate	$NaNO_3$ (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na_2HPO_4 (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na_3PO_4 (7601-54-9)	-	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**	*Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.*
*		Product must be post cured to deliver quoted chemical resistance
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 RESISTANCE OF BELZONA® 4111

FN 10209

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 ˚C 68 ˚F	Other
Salts continued	Sodium sulfate	Na_2SO_4 (7757-82-6)	-	Ex	-
	Sodium sulfide	Na_2S (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_2O_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**	*Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.*
*		Product must be post cured to deliver quoted chemical resistance
Ex		**Bold** text highlights real life data obtained via chemical resistance testing
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