CHEMICAL RESISTANCE OF BELZONA® 2141

FN 10051

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 ˚C 68 ˚F	Other
Inorganic Acids	Hydrochloric acid	HCl (7647-01-0)	20%	**M**	-
			10%	**G**	-
	Nitric acid	HNO_3 (7697-37-2)	20%	P	-
			10%	**P**	-
	Sulfuric acid	H_2SO_4 (7664-93-9)	30%	**Ex**	-
			20%	**Ex**	-
			10%	Ex	-
Organic Acids	Acetic acid (ethanoic acid)	CH_3COOH (64-19-7)	10%	**P**	-
			5%	**P**	-
	Phenol (hydroxybenzene)	C_6H_5OH (108-95-2)	-	P	-
	Stearic acid	$CH_3(CH_2)_{16}CO_2H$ (57-11-4)	-	Ex	-
	Tartaric acid	$C_4H_6O_6$ (526-83-0)	-	G	-
Alcohols, Aldehydes and Ketones	Acetone	$(CH_3)_2CO$ (67-64-1)	-	P	-
	Amyl alcohol (1-Pentanol)	$C_5H_{11}OH$ (71-41-0)	-	P	-
	n-Butanol (butyl alcohol)	C_4H_9OH (71-36-3)	-	P	-
	Ethanol (ethyl alcohol)	CH_3CH_2OH (64-17-5)	-	**P**	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	$(CH_2OH)_2$ (107-21-1)	-	P	-
	Glycerol (glycerine, propane-1,2,3-triol)	$HOCH_2CH(OH)CH_2OH$ (56-81-5)	-	P	-
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	$CH_3CH(OH)CH_3$ (67-63-0)	-	P	-
	Methanol (methyl alcohol)	CH_3OH (67-56-1)	-	P	-
	Methyl ethyl ketone (MEK, butanone)	$CH_3C(O)CH_2CH_3$ (78-93-3)	-	**P**	-
	Propan-1-ol (Propyl alcohol)	$CH_3CH_2CH_2OH$ (71-23-8)	-	P	-
Amines and Amides	(Diethanolamine (DEA) 2,2'-iminodiethanol)	$HN(CH_2CH_2OH)_2$ (111-42-2)	-	M	-
	N-Methyl diethanolamine (MDEA)	$CH_3N(CH_2CH_2OH)_2$ (105-59-9)	-	M	-
	Monoethanolamine (MEA) (2-aminoethanol)	$H_2NCH_2CH_2OH$ (141-43-5)	-	**M**	-

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Moderate	**M**	no significant deterioration / barrier properties retained for 1 - 12 weeks *suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment*
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Alkalis	Ammonia	NH_3 (7664-41-7)	25%	**G**	-
	Barium hydroxide	$Ba(OH)_2$ (17194-00-2)	-	Ex	
	Calcium hydroxide (lime water)	$Ca(OH)_2$ (1305-62-0)	-	Ex	
	Magnesium hydroxide (milk of magnesia)	$Mg(OH)_2$ (1309-42-8)	-	Ex	
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20%	Ex	-
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50% 20%	**Ex** **Ex**	- -
Gases	Carbon dioxide (dry)	CO_2 (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Hydrogen	H_2 (1333-74-0)	-	Ex	-
	Nitrogen	N_2 (7727-37-9)	-	Ex	-
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	G	-
	Benzene (benzol)	C_6H_6 (71-43-2)	-	P	-
	Crude oil	N/A	-	**G**	-
	Gasoline (E10 petrol)	N/A (8032-32-4)	-	M	-
	Heptane	$CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-5)	-	G	-
	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	G	-
	Kerosene	N/A (8008-20-6)	-	**Ex**	-
	Mineral Spirits / White Spirits (Turpentine, Stoddards Solvent)	N/A (8052-41-3)		G	
	Paraffin wax	N/A (8002-74-2)	-	Ex	-
	Petrolatum (Petroleum jelly)	N/A (8009-03-8)	-	Ex	-
	Toluene (methylbenzene, phenylmethane, toluol)	$C_6H_5CH_3$ (108-88-3)	-	P	-
	Xylene (dimethyl benzene, xylol)	$C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	**P**	-

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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 ˚C 68°F	Other
Miscellaneous	Aqueous Urea Solution (Adblue)	$CO(NH_2)_2$ (57-13-6)	32.5%	**Ex**	-
	Brake fluid	N/A		G	-
	Emulsion paint	N/A		Ex	-
	Fertilizer solutions	N/A		Ex	-
	Grease	N/A		Ex	-
	Ink (water based)	N/A		Ex	-
	Mercury	Hg (7439-97-6)		Ex	-
	Rubber latex emulsions	N/A		Ex	-
	Silicone oil	N/A		Ex	-
	Starch	N/A		Ex	-
	Water *Deionised, Fresh, Mineral, Sea*	H_2O (7732-18-5)	-	**Ex**	-
	Water/Oil Mixtures	N/A	-	Ex	-
	Wax emulsions	N/A	-	Ex	-
Oils - Mineral	Bunker oil	N/A	-	Ex	-
	Diesel oil	N/A	-	Ex	-
	Fuel oil	N/A	-	Ex	-
	Hydraulic oil	N/A	-	Ex	-
	Lube oil	N/A	-	Ex	-
	Petroleum oil	N/A	-	Ex	-
	Transformer oil	N/A	-	Ex	-

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Oils – Vegetable/Animal	Castor oil	N/A	-	Ex	-
	Coconut oil	N/A	-	Ex	-
	Cod liver oil	N/A	-	Ex	-
	Corn oil	N/A	-	Ex	-
	Cottonseed oil	N/A	-	Ex	-
	Lard oil	N/A	-	Ex	-
	Linseed oil	N/A	-	Ex	-
	Olive oil	N/A	-	Ex	-
	Palm oil	N/A	-	Ex	-
	Pine oil	N/A	-	Ex	-
	Soybean oil	N/A	-	Ex	-
	Tall oil	N/A	-	Ex	-
	Tung oil	N/A	-	Ex	-
Salts	Aluminium chloride	$AlCl_3$ (7446-70-0)	-	Ex	-
	Aluminium sulphate	$Al_2(SO_4)_3$ (10043-01-3)	-	Ex	-
	Ammonium bicarbonate	$(NH_4)HCO_3$ (1066-33-7)	-	Ex	-
	Ammonium carbonate	$(NH_4)_2CO_3$ (506-87-6)	-	Ex	-
	Ammonium chloride	NH_4Cl (12125-02-9)	-	Ex	-
	Ammonium phosphate	$(NH_4)_3PO_4$ (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH_4NO_3 (6484-52-2)	-	Ex	-
	Ammonium sulfate	$(NH_4)_2SO_4$ (7783-20-2)	-	Ex	-

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Salts continued	Barium carbonate	$BaCO_3$ (513-77-9)	-	Ex	-
	Barium chloride	$BaCl_2$ (10361-37-2)	-	Ex	-
	Barium sulfate	$BaSO_4$ (7727-43-7)	-	Ex	-
	Calcium carbonate	$CaCO_3$ (471-34-1)	-	Ex	-
	Calcium chloride	$CaCl_2$ (10043-52-4)	-	Ex	-
	Calcium hypochlorite	$Ca(ClO)_2$ (7778-54-3)	10%	G	-
	Calcium sulphate	$CaSO_4$ (7778-18-9)	-	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	$FeCl_3$ (7705-08-0)	-	Ex	-
	Ferrous chloride	$FeCl_2$ (7758-94-3)	-	**Ex**	-
	Ferric sulphate	$Fe_2(SO_4)_3$ (10028-22-5)	-	Ex	-
	Ferrous sulfate	$FeSO_4$ (7720-78-7)	-	**Ex**	-
	Lead acetate	$Pb(CH_3COO)_2$ (301-04-2)	-	Ex	-
	Magnesium chloride	$MgCl_2$ (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	$MgSO_4$ (7487-88-9)	-	Ex	-
	Nickel chloride	$NiCl_2$ (7718-54-9)	-	Ex	-
	Potassium bromide	KBr (7758-02-3)	-	Ex	-
	Potassium chlorate	$KClO_3$ (3811-04-9)	-	Ex	-

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Salts continued	Potassium chloride	KCl (7447-40-7)	-	**Ex**	-
	Potassium cyanide	KCN (151-50-8)	-	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	-
	Silver nitrate	$AgNO_3$ (7761-88-8)	-	Ex	-
	Sodium acetate	CH_3COONa (127-09-3)	-	Ex	-
	Sodium borate (borax)	$Na_2B_4O_7$ (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	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 hypochlorite (bleach)	NaClO (7681-52-9)	10%	**G**	-
	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	-
	Sodium silicate	Na_2SiO_3 (6834-92-0)	-	Ex	-

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Salts continued	Sodium sulphate	Na_2SO_4 (7757-82-6)	-	**Ex**	-
	Sodium sulphide	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 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.

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