CHEMICAL RESISTANCE OF BELZONA® 1511

FN 10178

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20°C 68°F	60°C 140°F	90°C 194°F
Inorganic Acids	Hydrochloric acid	HCl (7647-01-0)	10%	G*	M	P
			5%	**Ex***	G	**M**
			1%	Ex	G	G
	Nitric acid	HNO_3 (7697-37-2)	10%	M	P	P
			5%	**G***	M	**M**
	Phosphoric acid (orthophosphoric acid)	H_3PO_4 (7664-38-2)	10%	M	M	P
			5%	M	M	P
	Sulfuric acid	H_2SO_4 (7664-93-9)	10%	M	P	P
			5%	**G**	M	**P**
			1%	Ex	G	M
Organic Acids	Acetic acid (ethanoic acid)	CH_3COOH (64-19-7)	5%	**G***	P	**P**
			2%	**Ex***	M	**P**
			1%	Ex*	Ex	**Ex**
			0.1%	Ex*	Ex	**Ex**
	Phenol (hydroxybenzene)	C_6H_5OH 108-95-2)	-	P	P	P
Alcohols, Aldehydes and Ketones	Acetone	$(CH_3)_2CO$ (67-64-1)	-	M	-	-
	Amyl alcohol (1-Pentanol)	$C_5H_{11}OH$ (71-41-0)	-	G	M	M
	n-Butanol (butyl alcohol)	C_4H_9OH (71-36-3)	-	G	M	M
	Ethanol (ethyl alcohol)	CH_3CH_2OH (64-17-5)	-	G	M	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	$(CH_2OH)_2$ (107-21-1)	-	**Ex**	Ex	**Ex**
	Glycerol (glycerine, propane-1,2,3-triol)	$HOCH_2CH(OH)CH_2OH$ (56-81-5)	-	Ex	Ex	Ex
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	$CH_3CH(OH)CH_3$ (67-63-0)	-	G	M	M
	Methanol (methyl alcohol)	CH_3OH (67-56-1)	-	**G**	M	-
	Methyl ethyl ketone (MEK, butanone)	$CH_3C(O)CH_2CH_3$ (78-93-3)	-	M	P	-
	Propan-1-ol (Propyl alcohol)	$CH_3CH_2CH_2OH$ (71-23-8)	-	G	M	M
Alkalis/Bases	Ammonia	NH_3 (7664-41-7)	25%	Ex	-	-
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40%	Ex	Ex	Ex
			20%	Ex	Ex	Ex
	Sodium hydroxide (caustic soda)	$NaOH$ (1310-73-2)	50%	**Ex**	Ex	**Ex**
			40%	Ex	Ex	Ex
			20%	Ex	Ex	Ex
			10%	Ex	Ex	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

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Amines and Amides	Diethanolamine (DEA) (2,2'-iminodiethanol)	$HN(CH_2CH_2OH)_2$ (111-42-2)	-	Ex	Ex	Ex
	Diethylene gylcolamine (DGA) (2-(2-aminoethoxy) ethanol)	$H_2NCH_2CH_2OCH_2CH_2OH$ (929-06-6)	-	M	P	P
	N-Methyl diethanolamine (MDEA)	$CH_3N(CH_2CH_2OH)_2$ 105-59-9)	-	**Ex**	Ex	**Ex**
	Monoethanolamine (MEA) (2-aminoethanol)	$H_2NCH_2CH_2OH$ (141-43-5)	-	**Ex***	M	**P**
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulfone, 25% water)	N/A	-	**Ex***	M	**P**
Gases	Carbon dioxide (dry)	CO_2 (124-38-9)	-	Ex	Ex	Ex
	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex
	Hydrogen	H_2 (1333-74-0)	-	Ex	Ex	Ex
	Hydrogen Sulphide	H_2S (7783-06-4)	-	Ex	Ex	Ex
	Nitrogen	N_2 (7727-37-9)	-	Ex	Ex	Ex
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex	Ex
	Crude oil	N/A	-	Ex	Ex	Ex
	Gasoline (petrol)	N/A (8032-32-4)	-	Ex	Ex	Ex
	Heptane	$CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-7)	-	Ex	Ex	Ex
	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	Ex	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	Ex	Ex
	Mineral Spirits / White Spirits (Turpentine, Stoddards Solvent)	N/A (8052-41-3)		Ex	Ex	Ex
	Paraffin wax	N/A (8002-74-2)	-	Ex	Ex	Ex
	Petrolatum (Petroleum jelly)	N/A (8009-03-8)	-	Ex	Ex	Ex
	Toluene (methylbenzene, phenylmethane, toluol)	$C_6H_5CH_3$ (108-88-3)	-	**Ex**	G	**G**
	Xylene (dimethyl benzene, xylol)	$C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	G	G
Misc	Water	H_20	-	Ex	Ex	Ex
	Brine/Seawater	N/A	-	Ex	Ex	Ex

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