



# CALMARC CHEMICALS

## MANUFACTURING INDUSTRIAL CHEMISTS

16 GOONGARRIE ST, BAYSWATER WA 6053  
TELEPHONE: Bus. (08) 93782022, Mobile: 0418 956 860 A/H (08) 9381 5052  
Facsimile: (08) 9377 2575 A.C.N 009 026 386. ABN 18 340 289 669

THIS PRODUCT IS A HAZARDOUS SUBSTANCE AS DEFINED BY SAFE WORK AUSTRALIA

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Bore Reviver  
Manufacture Code: BORE  
Emergency Telephone No: (08) 9378 2022  
0408 940 669  
(08) 9381 5052  
13 11 26(all hours)  
Email: accounts@calmarc.com.au  
Creation Date: 18 October 2016  
SDS Responsibility: Calmarc Chemical's Technical Sales (08) 9378 2022  
0408 940 669  
Other Information: This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibilities for products sold are subject to our standard terms and conditions. A copy of our terms and conditions and technical information pamphlets are available upon request.

**DISCLAIMER**  
This information is based on the present level of knowledge about safety requirements not specific properties. The listed data is therefore subject to change and revision without notice and cannot be guaranteed. No warranty expressed or implied is made as to accuracy, reliability or completeness of the detail in this document.

### SECTION 2 – HAZARDS INFORMATION/EMERGENCY OVERVIEW

**Globally Harmonised System**  
Hazard Classification: Hazardous according to the criteria of the Globally Harmonised System of classification and labelling of Chemicals (GHS).

**Signal Word**: DANGER

**Physical Data**: Product is corrosive.

**ACUTE HEALTH EFFECTS**  
**Swallowed**: Toxic if swallowed. May cause nausea, vomiting and intense thirst. Causes severe burns to the mouth, throat and stomach. May cause immediate pain and ulceration to all membranes and tissues. Corrosion of the stomach may lead within a few hours or a few days to gastric perforation and peritonitis. Late oesophageal, gastric and pyloric strictures and stenoses should be anticipated.



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<b>Eye</b>	Causes burns. May cause extensive necrosis of the conjunctiva and corneal epithelium, resulting in perforation or opaque scarring.
<b>Skin</b>	Causes burns. May cause immediate pain and ulceration of all membranes and tissues.
<b>Inhalation</b>	Irritating to the mucous membranes and respiratory tract. Chemical pneumonitis can be expected after respiratory exposure to acid vapours or after tracheobronchial aspiration and ingested acid. Death may occur due to complication such as circulatory shock, asphyxia due to gottic or laryngeal adema, perforation of the stomach with peritonitis, gastric haemorrhage, infection or anition due to stricture formation.
<b>Chronic</b>	Prolonged exposure may cause bronchitis, pneumonia and pulmonary oedema.

**SPECIAL HEALTH EFFECTS**

**Environmental** Do not allow products to enter drinking water, rivers and streams as it may harm vegetation and wildlife.

<b>GHS Classification</b>	<b>Pictogram</b>	<b>Hazard Statement</b>
Corrosive Category 1 & 1B		H314 – Causes severe skin burns and eye damage.
Specific Target Organ Toxicity Category 3		H331 – Toxic if inhaled.

<b>GENERAL</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>PREVENTATIVE</b>	P234 Keep only in original container. P260 Do not breathe dust/fumes/gas/mist/vapours/spray. P261 Avoid breathing vapours/spray. P264 Wash face, hands and any exposed skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing and eye/face protection.



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<b>RESPONSE</b>	
P304 + P340 P331 P321 P301 + P330 + P331 P303 + P361 + P353 P363 P310 P305 + P351 + P338 P390	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor. Specific treatment (see this PDS) IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTRE or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Absorb spillage to prevent material damage.
<b>STORAGE</b>	
P410 + P403 P233 P405 P406 P402	Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant polypropylene container with a resistant liner. Store in a dry place.
<b>DISPOSAL</b>	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HSNO Classifications	Health	6.1B	Substances that are acutely toxic
	Hazards	8.1A	Substances that are corrosive to metals
		8.2B	Substances that are corrosive to dermal tissue
		8.3A	Substances that are corrosive to ocular tissue
	Environmental	9.1D	Slightly harmful to aquatic environment
Hazards	9.3C	Harmful to terrestrial vertebrates.	

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENTS	CAS No.	CONCENTRATION
Hydrochloride salt	506-89-8	10-30% m/m
Tensides(surfactants)		10-30% m/m
Water	7732-18-5	30-60% m/m

**SECTION 4 – FIRST AID MEASURES**

<b>Swallowed</b>	Immediately rinse mouth with water. Give plenty of water to drink. DO NOT induce vomiting. If vomiting occurs, give more water to achieve effective dilution. Seek medical assistance. Poisons information Telephone 13 11 26(all hours).
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<b>Eye</b>	Immediately irrigate with copious amounts of water for at least 15 minutes. Hold eyelids open while rinsing. Seek immediate medical assistance.
<b>Skin</b>	Immediately wash contaminated skin area with plenty of water. Remove contaminated clothing and wash if being reused. Seek medical attention. Treat skin with 1% Sodium Bicarbonate solution to neutralise acid residue.
<b>Inhalation</b>	Remove patient from contaminated area. Loosen clothing. Keep patient warm and relaxed until full recovery. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have trained person give oxygen through a facemask. If breathing has stopped, apply artificial respiration. If cardiac arrest occurs apply external cardiac massage. Seek medical advice if symptoms persevere.
<b>Advice to Doctor</b>	Treat symptomatically as for strong acids.

### SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion</b>	Not combustible but slippery when wet. Severe fire: use water or water fog.
<b>Ventilation</b>	Use only in a well-ventilated area. Mechanical ventilation or forced draught over the work area is recommended. Avoid generating or inhaling mists or aerosols. Keep away from glass.
<b>Autoignition Temperature</b>	Does not ignite.
<b>Source of Ignition</b>	Does not ignite.
<b>Flash Point</b>	Not Flammable.
<b>Extinguishing Media</b>	Water fog, water spray.
<b>Special Fire Fighting Procedures</b>	Wear acid resistant chemical splash suit.
<b>Decomposition Products</b>	Severe fire, after evaporation, emits toxic acid fumes.
<b>Reactivity</b>	The solution is a strong acid and will react violently with metals, oxidants and bases.
<b>Protection of Firefighters</b>	Wear safety boots, non-flammable overalls, gloves, safety hat (with face shield) or firefighter helmet (preferred), goggles and self-contained breathing apparatus. All skin areas should be covered. Block all drains and water courses to inhibit any spillage into them.



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### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal</b>	Slippery when wet. Use hydrated lime or alkalis to neutralise. Place the excess hydrated lime used for neutralisation in a plastic bag and dispose at an industrial tip site. Mop up the remaining residue and wash to waste. Avoid washing into waterways. Rinse area with water and collect using a mop or wet vacuum cleaner. Launder all contaminated clothing or wiping rags before re-use.
<b>Cleaning Protection</b>	Open up the area where spill or leak has occurred to ventilate direct vapours away. Have absorbents, such as vermiculite, attapulgate, cardboard or sand on hand to control flow of the spilled mobile product. Use wet vacuum cleaner or mop to collect any small spills.

### SECTION 7 – HANDLING AND STORAGE

<b>Protection against explosions and fires</b>	Keep containers on site away from sources of heat, sparks and earth if necessary, for static electricity. Use secure locked storage if possible and have forced or natural ventilation over worksite or storage areas.
<b>Packages</b>	The product is supplied in high density polypropylene bottles, jerry cans or cubes. Packaging group type II and III.
<b>Storage</b>	Keep containers securely sealed, clean protected against physical damage. Store in a cool place away from heat. BORE REVIVER is corrosive to steel, copper, aluminium and metals in general. It is incompatible with glass and materials containing silica. Keep away from children.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	The ingredients of which components with established Safe Work Australia exposure standards are listed below. Other ingredients do not have established NOHSC exposure standards.
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INGREDIENTS	TWA (Time Weighed Average)	STEL (Short Term Exposure Limit)
Hydrochloric Acid (trace amounts)	5ppm 7.5 mg/m <sup>3</sup> Peak limitation	2 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Use only in a well-ventilated area. Mechanical ventilation or forced draught over the work area is recommended. Avoid generating or inhaling mists or aerosols. Keep away from metals.
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#### PERSONAL PROTECTIVE EQUIPMENT

<b>Eye/Face Protection</b>	Wear safety glasses, goggles or preferably a face shield. In enclosed non-ventilated areas, an air line to full head cover helmet with mask may be necessary. Breathing mask to be suitable for organic vapours.
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<b>Skin/Body Protection</b>	Wear nitrile or PVC gloves for 8-hour day. Short-term protection (1 hour), natural rubber is suitable. Wear full coverall clothing protection with safety boots.
<b>Hygiene Measure</b>	Wash hands before meal breaks and at the end of a work period. Any contaminated clothing should be removed. Avoid inhaling any fumes on a long-term basis.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Substance	Formulation blend of chemicals
Physical Form	Low viscosity liquid
Colour	Light yellow clear liquid
Odour	Trace
pH	1.0 +/- 0.2
Boiling Point	>100°C at 100 kPa
Melting Point	Not Applicable
Flash Point	Not Applicable
Freezing Point	Approx. 0°C
Autoignition	Does not ignite.
Water Solubility	Infinite
Vapour Pressure	Not Known
Vapour density	Not Known
Specific Gravity	1.2 g/cc @ 25°C
Corrosivity	Corrosive Class 8

### SECTION 10 – STABILITY AND REACTIVITY

<b>Stability</b>	Stable as supplied at normal (average) atmospheric temperatures.
<b>Reactivity</b>	Strong acid. Reacts violently with bases, oxidants and metals.
<b>Decomposition Products</b>	Severe fire, after evaporation, emits toxic acid fumes.

### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>For Hydrochloric Acid</b>	
Immediate	Oral-Rabbit LD <sub>50</sub> : 900 mg/kg Inhalation-human LC <sub>LO</sub> : 1300ppm/30 minutes Inhalation-human LC <sub>LO</sub> : 3000ppm/5 minutes
Delayed (Subchronic and Chronic) Effects	Exposure to concentrations over 1000 ppm may cause headache, irritation of the eyes, nose, throat, and, if continued, drowsiness and lassitude, loss of appetite, and inability to concentrate. There is no concrete evidence that repeated exposure to vapour results in cirrhosis of the liver. Ingestion of large doses can cause alcohol poisoning. Repeated ingestion can lead to alcoholism.
Other data	None



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### SECTION 12 – ECOLOGICAL INFORMATION

None known.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal** Allow absorbents to dry out in the open atmosphere. Contaminated product should be reprocessed by an approved organisation. Place any dried absorbent in plastic bags, seal and dispose at an approved site.

### SECTION 14 – TRANSPORT INFORMATION

Shipping Name	Acid Solution-Category 1 & 1B
Dangerous Goods Code	8
Subsidiary Risk	None
UN Number	1760
Packaging Group	II or III
I.E.R.G. No.	40
HAZCHEM	2R

### SECTION 15 – REGULATORY INFORMATION

**POISON SCHEDULE** 6

### SECTION 16 – OTHER INFORMATION

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product.

Directions for use are on the label and brochure describing **Bore Reviver**.

**SDS NEXT REVIEW DATE** 2 September 2024

**END OF SDS FOR BORE REVIVER**