

SAFETY DATA SHEET

1. Product and Company Identification

Company Name: Sierra Aust Pty Ltd
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Product Name: **Crystal Bore Cleaner**
Product Code: 8005, 8020
Intended Use: Water Bore Cleaning Solution
Chemical Nature: Liquid - Mixture

2. Hazards Identification

Hazardous Chemical according to classification by Safe Work Australia
Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

GHS Classification: Acute Toxicity - Oral, Category 4
 Acute Toxicity – Dermal, Category 4



GHS Signal Word: **WARNING**

Hazard Statement(s):
 H302 Harmful if swallowed
 H312 Harmful in contact with skin

Precautionary Statement(s):

General:

- 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

Prevention:

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P302+P352 IF ON SKIN: Wash with plenty of soap and water
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P330 Rinse mouth
- P363 Wash Contaminated clothing before re-use

Storage:

- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition / Information on Ingredients

Ingredients Names and Proportions

Chemical Entity	Cas Number	Proportion(%)
Ethanedioic Acid	144-62-7	>20
Ingredients not classified as hazardous		<3

4. First aid Measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms Caused by Exposure:

Inhalation:	May result in slight irritation to respiratory tract – coughing, dryness.
Skin:	May cause irritation – redness and itching. Prolonged contact may cause corrosive injury.
Eye:	A severe eye irritant, corrosive to eyes, may cause redness, swelling and/or blurred vision. Can result in permanent eye injury.
Ingestion:	Hazardous. Highly corrosive. Swallowing may cause severe burns of mouth, throat and stomach. Symptoms may include vomiting abdominal pain, collapse and possible convulsions.

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Unsuitable Extinguishing Media: None.

Specific hazards arising from the substance or mixture: Non-combustible material. In case of fire and/or explosion do not breathe fumes.

Special protective equipment and precautions for fire-fighters:

Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Keep containers cool with water spray. Hazchem code 2X.

6. Accidental Release Measures

Emergency procedures/Environmental precautions:

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up: Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. Handling and Storage

Precautions for safe handling

Avoid contact with eyes, skin and clothing. Do not ingest and avoid breathing mist. Wash thoroughly after handling. Handle open containers in well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands.

Conditions for safe storage, including any incompatibilities: Do not store near strong oxidising agents and alkalis.

8. Exposure Controls and Personal Protection

Exposure control measures

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Oxalic Acid: 1mg/m³ TWA (8hr), 2 mg/m³ STEL.

Biological monitoring

No biological limit allocated.

Engineering controls

Ensure that adequate ventilation is provided. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual protection measures

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If inhalation risk exists an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.
Thermal hazards:	Not applicable.

Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. Physical and Chemical Properties

Appearance:	Clear liquid
Odour:	Data not available
pH:	2 (approx.)
Melting point/freezing point (°C):	0 (approx.)
Initial boiling point and boiling range (°C):	100 (approx.)
Flash point (°C):	Data not available
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Non-combustible
Upper/lower flammability or explosive limits (%):	Data not available
Vapour pressure (mbar @ 20°C):	Data not available
Vapour density (air = 1, @ 20°C):	Data not available
Density (g/ml):	1.06
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available

Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm ² /s @ 20°C):	Data not available

10. Stability and Reactivity

Reactivity

Stable under normal conditions of use.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

Stable under normal conditions of use.

Conditions to avoid

No additional remark.

Incompatible materials

May react vigorously with alkalis, alkali metals and oxidising agents.

Hazardous decomposition products

May evolve oxides of carbon.

11. Toxicological Information

Acute toxicity:	Oxalic acid is highly corrosive. Oral LD50 (rat): 475mg/kg Dermal LD50 (rabbit): 2000mg/kg
Skin corrosion/irritation:	Irritant.
Serious eye damage/irritation:	Severe irritant.
Respiratory or skin sensitisation:	Not expected to be a sensitiser
Germ cell mutagenicity:	Not expected to be a mutagen
Carcinogenicity:	Not expected to be a carcinogen
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available.
Aspiration hazard:	Not considered an aspiration hazard

12. Ecological Information

Ecotoxicity

Acute toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Persistence and degradability

Biodegradable.

Bioaccumulative potential

Data not available.

Mobility in soil

Miscible with water.

Other adverse effects

Data not available.

13 Disposal Considerations

Disposal methods:

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

UN number:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S.
Australian Dangerous Goods class:	8
Australian Dangerous Goods packing group:	III
Hazchem code:	2X

15. Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	6
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	37

16. Other Information

This SDS contains only safety related information. For other information see product literature.

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.