
1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name BORE REJUVINATOR
Synonyms MUDEX BORE REJUVINATOR

1.2 Uses and uses advised against

Uses BORE WATER STAIN REMOVER
A cleaning agent to remove iron oxides from water bores, pumps, and reticulation.

1.3 Details of the supplier of the product

Supplier name MUDEX (PTY) LTD
Address 5 Coulson Way, Canning Vale, WA, 6155, AUSTRALIA
Telephone + 61 (08) 9390 4620
Email info@mudex.com.au
Website <http://www.mudex.com.au>

1.4 Emergency telephone numbers

Emergency +61 427 558 155

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Not classified as a Physical Hazard

Health Hazards

Acute Toxicity: Oral: Category 4
Acute Toxicity: Skin: Category 4
Skin Corrosion/Irritation: Category 1B
Serious Eye Damage / Eye Irritation: Category 1
Specific Target Organ Toxicity (Repeated Exposure): Category 2
Corrosive to the respiratory tract

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

Pictograms

Hazard statements.

H302	Harmful if swallowed.
H312	May be harmful if in contact with skin.
H314	May cause skin burns and eye damage.
H318	May cause serious eye damage.
H373	May cause damage to organs (kidneys) through prolonged or repeated exposure.

Prevention Statements

P260	Do not breathe dust/ fumes.
P264	Wash hands thoroughly after handling
P270	Do not eat, drink, or smoke while using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response Statements

P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or HAIR): Take off all contaminated clothing. Rinse with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water until advised to stop by a medical professional. Remove contact lenses if safe to do so.
P310	Immediately call a POISON CENTRE or doctor/ physician.
P314	Get medical advice/ attention if unwell.
P321	Specific treatment is advised – see first aid instructions.
P363	Wash contaminated clothing before reuse.

Storage statements

None allocated.

Disposal statements

P501	Dispose of contents/ container in accordance with relevant regulations.
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2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
OXALIC ACID DIHYDRATE	6153-56-6	205-634-3	>60%
NON-HAZARDOUS INGREDIENTS	Not available	Not available	Remainder

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
First aid facilities	Eye wash facilities should be available.

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4.2 Most important symptoms and effects, both acute and delayed.

May cause burns. Systemic effects may result in interference with normal calcium levels within the body resulting in kidney damage, heart, and nervous system disturbances.

4.3 Immediate medical attention and special treatment needed.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture.

Non-flammable. May evolve toxic gases (carbon oxides, formic acid, hydrocarbons) when heated to decomposition.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

2X

2 Fine water spray.

X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up.

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking, and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities.

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage, and sealed when not in use. Check regularly for leaks or spills. Store away from direct sunlight, below 30°C.

7.3 Specific end uses.

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

No exposure standards have been entered for this product.

Biological limits

No biological limit values have been entered for this product.

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8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well-ventilated areas. Maintain dust levels below the recommended exposure standards.

PPE

Eye/ Face

Wear dust-proof goggles.

Hands

Wear PVC or rubber gloves.

Body

When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory

Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high level, wear a Powered Air Purifying Respirator (PAPR) with a class P3 (Particulate) filter or a full-face Class P3 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	WHITE POWDER
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	1.5 (1% solution)
Vapour density	NOT AVAILABLE
Solubility (water)	SOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

10.4 Conditions to avoid.

Avoid heat, sparks, open flames, and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidizing agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and other silver compounds.

10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, formic acid, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed or in contact with skin.

Information available for the ingredients

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
OXALIC ACID DIHYDRATE	425mg/kg (AICIS)	--	--

Skin Contact may result in pain, burns, discoloration, brittle nails, and gangrene tissue damage.
Eye Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns, and possible permanent damage.
Sensitization Not classified as causing skin or respiratory sensitization.
Mutagenicity Not classified as a mutagen.
Carcinogenicity Not classified as a carcinogen.
Reproductive Not classified as a reproductive toxin.
STOT – Single Overexposure may result in mucous membrane irritation of the respiratory tract, coughing and inflammation. High level may result in interference with normal calcium levels within the body resulting in kidney damage, heart and nervous system disturbances.
STOT – repeated Prolonged exposure to oxalic acid may result in urinary stones as crystals of calcium oxalate are a major constituent of kidney stones (HSBD).
Aspiration Not classified as causing aspiration problems.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

Partially biodegradable.

12.3 Bioaccumulative potential

This product does not bioaccumulate.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

SOIL: Oxalic acid will degrade quickly on the surface but would be expected to leach to groundwater. WATER: Will not volatilize, adsorb to sediment, bioconcentrate in aquatic organisms, oxidize or hydrolyze.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste disposal Neutralize with lime, weak alkali or similar. For small amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer/ supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	No14.ne allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a marine pollutant

14.6 Special precautions for user

None allocated.

15. REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/ legislation specific for the substance or mixture

Poison Schedule Classification Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). Safework Australia criteria is based on the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals.

Inventory Listings **Australia: AIIC (Australian Inventory of Industrial Chemicals)**

All components are listed on AIIC or are exempt.

16. OTHER INFORMATION

Additional information: **ACIDS:** When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small amount of acid o a large volume of water, NEVER the reverse.

RESPIRATORS: In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m ³	Milligrams per Cubic Metre

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OEL Occupational Exposure Limit
pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm Parts Per Million
STEL Short-Term Exposure Limit
STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons
SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Report Status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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