

SAFETY DATA SHEET

Section 1 - Identification of Chemical Product and Company

DISTRIBUTED BY:

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Restore Solutions
Your Environment Specialist

Trade Name: MICROCIDE
Product Code: NA
Product Use: Disinfectant, Algaecide
Revision Date: February 2024
Expiry date: February 2029

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as a HAZARDOUS CHEMICAL in accordance with the GHS. It is classified as a DANGEROUS GOOD by the ADG code.

Classification of the substance or mixture:

Skin Corrosion - Category 1

Acute Toxicity – Category 4

Acute Aquatic Toxicity – Category 2

Signal Word: Danger



Hazard Statements:

H314 Causes severe skin burns and eye damage

H302 Harmful if swallowed

H401 Toxic to aquatic life

Precautionary Statements:

Prevention

P260 Do not breathe mist/vapour spray

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

P270 Do not eat, drink or smoke when using this product.

Response

P301 + P330 + P331+ P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poisons Information Centre or doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a Poison Centre or doctor.

P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up

Disposal

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

SUSMP Classification: Schedule 5 (CAUTION)

ADG Classification: 8 Corrosive

UN Number: 1760 CORROSIVE LIQUID N.O.S. (Benzalkonium Chloride Solution 10-15%)

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%
Quaternary Ammonium Compounds	63449-41-2	10 to 30%
Other ingredients deemed not to hazardous	Not available	to 100 %

Section 4 - First Aid Measures

Eye Contact	Hold eyelids apart and flush the eye continuously with running water for at least 15 minutes or until advised by a Poisons Information Centre or doctor. Seek medical attention.
Skin Contact	Remove contaminated clothing and wash skin thoroughly with water for at least 15 minutes or until advised by a Poisons Information Centre or doctor. Seek medical advice.
Inhalation	Remove patient to fresh air avoid becoming a casualty. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
If Swallowed	Do NOT induce vomiting. Rinse mouth with water and give water to drink. Seek medical attention. For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.
Advice to Doctor	Treat symptomatically.
Additional Information	-

Section 5 - Fire Fighting Measures

Not flammable. This product is not likely to be the initiator of a fire but may contribute to the fuel of a fire

Suitable Extinguishing Equipment

If involved in a fire, appropriate extinguishing media include fine water spray, dry extinguishing media, foam and carbon dioxide

Special Protective Equipment and Precautions for Fire Fighters

When fighting fires involving significant quantities of this product, wear a splash suit complete with self-contained breathing apparatus.

Specific hazards arising from the chemical:

Toxic and/or irritating fumes including nitrous gasses, carbon monoxide and carbon dioxide may be emitted.

Hazchem Code: Not Applicable

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal protective equipment should be worn when cleaning up spills. Restrict access to area until completion of cleanup. Stop leak if safe to do so. May be slippery when spilled.

Methods and Materials for containment and cleaning up

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Contain spill with absorbent material, such as sand, vermiculite or other inert material. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre.

Environmental precautions

Prevent spill entering sewers or waterways.

Section 7 - Handling and Storage

Precautions for Safe Handling

Avoid skin and eye contact and avoid breathing in vapour, mists or aerosols. An eye bath and safety shower is recommended. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Store away from incompatible materials listed in section 10 including oxidizing agents, acids, combustible materials and sources of ignition. Protect from direct sunlight.

Store in original packaging as approved by manufacturer.

Section 8 - Exposure Controls and Personal Protection

No exposure limits available for this material.

ASCC Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
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None

Gloves and safety glasses are recommended to avoid skin and eye contact. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: Use in a well-ventilated area. This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels.

Personal Protective Equipment

RESPIRATOR: Wear an approved respirator where vapours are generated and engineering controls are inadequate.

EYES: Safety glasses or splash goggles to prevent splashing in the eyes.

HANDS: Wear chemical resistant gloves.

CLOTHING: Chemical resistant coveralls and safety footwear.

Section 9 - Physical and Chemical Properties:

Physical Description:	Colourless Liquid	Water Solubility:	Soluble
Odour:	Characteristic	pH:	7 to 9
Boiling Point:	No data	Flash Pt.	No data
Freezing/Melting Point:	No data	Volatility:	No data
Volatiles:	No data	Odour Threshold:	No data
Vapour Pressure:	No data.	Evaporation Rate:	No data
Vapour Density:	No data	Coeff Oil/water Distribution:	No data
Specific Gravity:	~1	Autoignition temp:	No data

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose

Chemical Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Avoid exposure to heat, sources of ignition and open flames. Avoid contact with incompatible materials. Avoid exposure to light.

Incompatible Materials: Strong oxidising agents, acids, alkalis, combustible materials and sources of ignition.

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Hazardous Decomposition Products:

Toxic and/or irritating fumes including carbon monoxide and carbon dioxide may be released on thermal decomposition.

Hazardous Reactions: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

No adverse health effects expected if this product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may occur if the product is mishandled or over exposure occurs are:

- Swallowed** Corrosive to the gastro-intestinal tract. May result in nausea, pain and vomiting, irritation of the mouth, esophagus, stomach and gastrointestinal tract.
- Eye** Corrosive to the eyes. Symptoms may include reddening, stinging and watering of the eyes. Corneal damage may develop, with possible impairment of vision. Lengthy exposure or delayed treatment may cause permanent damage.
- Skin** Corrosive to the skin. May burn the skin if not washed off without delay. Irritating to skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
- Inhaled** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath, headache, dizziness and nausea.

Chronic Effects

No Data Available

Acute Toxicity

No data available for this product. Data for the constituent/s;
Benzalkonium Chloride
LD50 (oral – rat) – 400mg/kg

Section 12 - Ecological Information

Avoid contaminating waterways.

Ecotoxicity

Toxic to aquatic life.

Persistence/degradability

No data

Section 13 - Disposal Considerations

Disposal method

Refer to State/Territory Waste Management Authority. Dispose of material through a licensed waste contractor. Rinse empty containers thoroughly before recycling or disposing to an authorised landfill.

Special precautions

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Section 14 - Transport Information

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code)

UN Number: 1760
UN Proper Shipping Name: CORROSIVE LIQUID N.O.S. (Benzalkonium Chloride Solution 10-15%)
Class and subsidiary risk: 8 Corrosive
Packing Group: II
Special precautions for user: Not applicable
Hazchem Code: 2R

Section 15 - Regulatory Information

Poisons Schedule (SUSMP): Schedule 5 (CAUTION)
All ingredients are listed in the Australia Inventory of Chemical Substances (AICS).

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Section 16 - Other Information

Date of Preparation: February 2024

This SDS contains only safety-related information. For other data see product literature. Please read all labels carefully before using product.

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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.