

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name:	Moss & Algae Killer
Proper Shipping Name	Toxic liquid, corrosive, organic, n.o.s
Recommended use:	Moss, Mould & Lichen Remover
Company Details	Chem Mate Limited
Address:	41 Angle Street, Onehunga, Auckland, New Zealand
Telephone:	
Fax:	+64 9 262 0802
Free Phone	0800 243 662
Emergency Telephone:	National Poison Centre(24 hours): 0800 POISON [764 766]
Date of preparation	25 May 2014

Section 2: Hazard Identification



DANGER:

- Toxic if swallowed.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Causes severe skin burns and eye damage.
- Very toxic to aquatic life with long lasting effects.

Prevention:

- Keep out of reach of children.
- Read label before use.
- Wash hands thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
Wear protective gloves and eye/face protection.
- Avoid breathing vapours/spray.
- In case of inadequate ventilation, wear suitable respiratory protection.
- Avoid release to the environment.

Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
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Quaternary Ammonium Chloride

50%

63449-41-2

Non hazardous materials

Up to 100

Section 4: First Aid Measures

- Eyes:** If medical advice is needed, have product container or label at hand. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin:** Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
- Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
- Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position, comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

For Further Information Telephone (24 Hours)The National Poison Centre: 0800 Poison [764 766]

Section 5: Fire Fighting Measures

- Flash Point:** Not available
- Auto ignition Temperature:** Not available
- Flammable Limits in Air % by Volume:** Not available
- Extinguishing Media:** All
- Fire Fighting Instructions:**
- Unusual Fire and Explosion Hazards:** Not available

Section 6: Accidental Release Measures

Collect spillage. Do not release into waterways.

Section 7: Handling And Storage

Handling

- Storage:** Store locked up in the original container. Protect from physical damage. Clean up all spills immediately to prevent secondary accidents.

Section 8: Exposure Controls/Personal Protection

- Engineering Controls:** General (mechanical) room ventilation is considered satisfactory in enclosed spaces.
- Eye / Face Protection:** Safety Glasses/Full face masks
- Body Protection:** PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.

Respiratory Protection: Avoid exposure to spray mist. Suitable respiratory protection should be worn.

Exposure Limits: Not available

Section 9: Physical And Chemical Properties

Appearance	colourless liquid
Boiling/Melting Point	100/0°C
Vapour Pressure mmHg/25°C	24
Percent Volatile	80
Specific Gravity	1.07
Flash Point	Nil
Flammability Limits	Nil
Auto ignition Temperature	Nil

Section 10: Stability And Reactivity

Stability of the Substance: Stable under general conditions

Conditions to avoid: Heat

Materials to avoid: Oxidising agents

Hazardous Decomposition Products:

Conditions Contributing to Hazardous Polymerization

Section 11: Toxicological Information

Inhalation: Respiratory sensitizers

SPECIES:

RESULT: In acute cases pulmonary oedema resulting from aspiration, dyspnea and cyanosis due to paralysis of the respiratory muscles, bronchoconstriction, cough can occur.

REFERENCE SOURCE: (Adelson & Sunshine, 1952; Chataigner et al., 1991; Chan 1994).

Ingestion: SPECIES: Mouse; ENDPOINT: LD50 ;VALUE: 150 mg/kg

REFERENCE SOURCE: Lewis, R.J. Saxs Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996. 324. **PEER REVIEWED** [HSDB]

Skin: SPECIES: Rat ;ENDPOINT: LD50;VALUE: 1420 mg/kg

REFERENCE SOURCE: Lewis, R.J. Saxs Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996. 324. **PEER REVIEWED** [HSDB]

Eye:

SPECIES:

RESULT: Eye exposure may result in mild discomfort (0.1% solution) to very serious corneal damage (10% solution) depending on the agent and the concentration. High concentrations of benzalkonium chloride can cause ocular toxicity in human eyes

REFERENCE SOURCE: (Reynolds, 1996). [INCHEM]

Section 12: Ecological Information

Environmental Precautions:

Ecological Toxicity:

SPECIES: Scenedesmus pannonicus (Green algae)

TYPE OF EXPOSURE: Static; DURATION: 72 hr; ENDPOINT: EC50

VALUE: 80 ug/L (= 0.08 mg/l)

REFERENCE SOURCE: Comparative Short-Term Research with Water-Organisms to Determine the Acute Toxicity of a Number of Biocides. Canton, J.H., and E.A.M. Mathijssen-Spiekman (1983) Rep.No.668115-001, Natl.Inst.Public Health Environ.Hyg.:6 p.(DUT) [ECOTOX]

Biocumulative: No

Rapidly Degradable: Yes

Environmental Risk:

Section 13: Disposal Considerations

Dispose through Licensed Disposal Company

Section 14: Transport Information



UN No:

2927

Proper Shipping Name:

TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Dangerous Goods Class:

6.1

Subsidiary risk

8

Packing Group:

III

Hazchem Code:

2Z

Section 15: Regulatory Information

HSNO Approval No: HSR002595
Group Standard: Industrial and Institutional Cleaning Products (Toxic [6.1], Corrosive)
HSNO Classes: 6.1C (oral), 6.1C (dermal), 6.5A (respiratory), 6.5B(contact),
6.9B(dermal) 8.2C, 8.3A, 9.1A 9.3B

Section 16: Other Information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]
New Zealand Emergency Services: 111

For General Information: Nayyar Ghazali: +64 272729562; 0800 262 0800

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End of Safety Data Sheet.