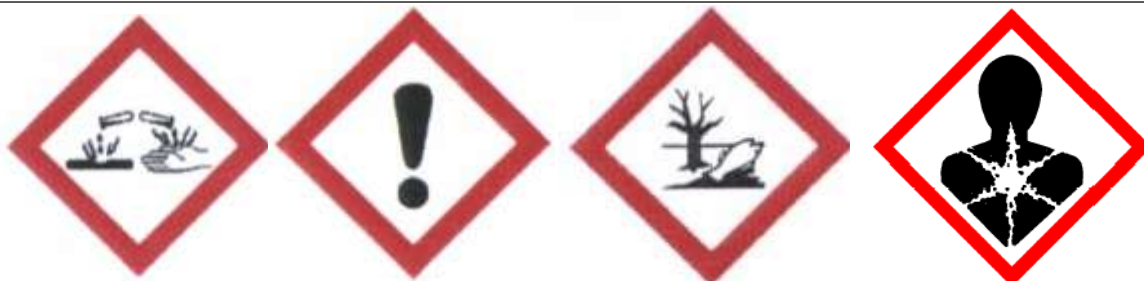

SAFETY DATA SHEET

Product Name *Moss and Mould Killer (Moss and Algae Killer)*

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: *Moss and Mould Killer (Moss and Algae Killer)*
Recommended use: **High Concentrated Moss, Mould, Lichen and Algae Remover**
Company Details: **Envirochem International (NZ) Ltd (Chemmate Limited)**
Address: 41 Angle Street, Onehunga
Auckland. New Zealand
Telephone Number: +64 9 262 0800
Emergency Telephone Number: National Poison Information Centre 0800 764 766
Date of Preparation: 01/06/2017

2. HAZARD IDENTIFICATION



DANGER

HSNO Hazard Classification: 6.1D (oral), 6.5A, 6.5B, 6.9B, 8.2C, 8.3A, 9.1B, 9.3C

Hazard Statement:

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Toxic to aquatic life with long lasting effects.
Harmful to terrestrial vertebrates.

Prevention Statements:

- Keep out of reach of children.
- Read label before use.
- Read Safety Data Sheet before use.
- Do not breathe dust/fumes/gas/mist/vapours/spray.
- Wash hand thoroughly after handling
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to environment.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.

Response Statement:

- If medical advice is needed, have product container or label at hand.
- Immediately call POISON CENTER or doctor/physician.
- Get medical advice/attention if you feel unwell.

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- Rinse mouth.
 - Do NOT induce vomiting.
 - Wash contaminated clothing before re-use
 - Collect spillage.
 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
 - IF ON SKIN: Wash with plenty of soap and water.
 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 - IF INHALED: if breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - If experiencing respiratory symptoms: Call a POISON center or doctor/physician.

Storage Statement:

- Store locked up.

Disposal:

- Disposal should be through qualified contractor.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration %
Quaternary Ammonium Chloride	63449-41-2	<75
Non-hazardous Material		Balance

4. FIRST AID MEASURES

Ingestion:

Immediately rinse mouth with water. If swallowed do not induce vomiting. Give water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical aid immediately.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment. Do not rub eyes or keep eyes closed

Skin Contact:

Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

Inhalation:

Remove the effected person out to a ventilated area. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

5. FIRE FIGHTING MEASURE

Extinguishing Media:

Use dry chemical powder, foam, polymer foam, and water spray or fog type extinguishers. Water may be ineffective on fire. However, water spray may be used to extinguish fires and to absorb heat. Keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills away from exposures.

Hazards from combustion products:

Evaporation of aqueous component, residual material can burn if ignited. While burning, it will emit toxic fumes including carbon monoxide and carbon dioxide.

Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighters' uniform.

6. ACCIDENTAL RELEASE MEASURES

Emergency Precautions:

Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do not let product reach drain or waterways; advise the Environmental Protection Authority or your local Waste Management.

Methods and Materials for Containment and Clean Up:

Soak up spilled product using absorbent, non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Natural ventilation is adequate. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.

Storage:

Store in a tightly closed container and locked up. Store in cool, dry, well-ventilated area away from incompatible substances. Keep containers closed at all times, check regularly for leak.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:

The Occupational Safety and Health Service, NZ Department of Labour have set no Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES) for this substance.

Biological limit values:

None established

Engineering Controls:

The use of local exhaust ventilation is recommended (but not mandatory) to control process emissions near the source. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection:

Always use safety glasses or a face shield when handling this product.

Skin/Body Protection:

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when manufacturing this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless
Physical State:	Liquid
Odour:	Odourless
pH:	Approx.10
Melting/Freezing Point:	Not available
Initial Boiling point/range:	>100 Deg
Solubility:	Soluble in water
Specific Gravity	1.00

Vapour Density:	Not available
Vapour pressure:	Not available
Ignition Point:	Not available
Flash Point:	Not available
Viscosity	Low
% Volatilities	Not available
Decomposition Temperature	Not available

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable at room temperature and pressure

Conditions to avoid:

No real conditions to avoid

Incompatible Materials:

Incompatible with strong oxidizers and acids

Hazardous decomposition:

When involved in a fire, this product may generate carbon monoxide

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the safety data sheet.

Symptoms or effects that may arise if the product is mishandled and the overexposure occurs are:

Acute Effects

Ingestion:

Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion of large amounts of this product will result in headaches, nausea, dizziness and tracheal burning.

Eye Contact:

This product is irritating and pain followed by swelling to the conjunctiva.

Skin Contact:

This product may be irritating to skin.

Inhalation:

May be irritating to respiratory tract. Exposure to high concentrations over an extended period of time may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations and possible loss of consciousness.

Toxicological Data:

For Quaternary Ammonium Chloride: LD50 Rat 1420 mg/kg LD50 mouse 150 mg/kg

12. ECOLOGICAL INFORMATION

No data is available for the product

Environmental Precautions

Do not release to waterways.

Ecological Toxicity:

For Quaternary Ammonium Chloride:

LC50 fathead minnow 0.28 mg/l, Exposure: 96 hours

EC50 daphnia magna 0.006 mg/l, Exposure 48 hours

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities.

14. TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Goods by the criteria of New Zealand Dangerous Goods Code for transport by road and rail

Marine Transport:

Classified as Dangerous Goods by the criteria of international Maritime Dangerous Goods Code for transport by sea.

Air Transport:

Classified as Dangerous Goods by the criteria of international Air Association Dangerous Goods Regulations for transport by air



Shipping Name:	Disinfectant liquid corrosive N.O.S (Benzalkonium chloride)
Hazard Class:	8
UN Number:	1903
Packing Group:	III
Hazchem Code:	2X

15. REGULATORY INFORMATION

HSNO Approval No:	HSR002526
Group Standard:	Cleaning Products Corrosive. Group Standard 2006
HSNO Classification:	6.1D (oral), 6.5A, 6.5B, 6.9B, 8.2C, 8.3A, 9.1B, 9.3C

16. OTHER INFORMATION

New Zealand National Poison Information Centre:	0800 764 766
New Zealand Emergency Services:	111
Envirochem International (NZ) Ltd :	+64 9 262 0800

Every endeavour 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. Envirochem International (NZ) Limited 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 Local Councils regulations.