## SAFETY DATA SHEET



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

**Product Name:** MOSS KILL

**Proper Shipping Name** Toxic liquid, corrosive, inorganic, n.o.s

**Recommended use:** Moss, Mould & Lichen Remover

**Restriction of use:** Refer to Section 15

Company Details Marketing Chemicals Ltd

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**Telephone:** +64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]

**Fax:** +64 9 634 3864

**Emergency Telephone:** +64 274 340990(24 hours)

National Poison Centre(24 hours): 0800 POISON [ 764 766]

**Date of preparation** 3 September 2024 v2

## **Section 2: Hazard Identification**

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Cleaning Products (Corrosive) - HSR0002526

### **Pictograms**



Signal Word: **DANGER** 

GHS Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute dermal toxicity Cat. 4	H312	Harmful in contact with skin.
Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.

Prevention Code Prevention Statement
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P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for
	breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

# Section 3: Composition/Information on Ingredients

Name	% by Wt.	<b>CAS Number</b>
Quaternary Ammonium Chloride	25.0 - 60.0	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.

## Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	Harmful if swallowed.
Inhalation	Not applicable
Skin	Harmful in contact with skin. Causes severe skin burns.
Eyes	Causes serious eye damage.

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

## **Section 5: Fire Fighting Measures**

Hazard Type	Non Flammable.
Hazards from	Toxic fumes, hydrogen chloride
products	
Suitable Extinguishing	Water spray or fog, Dry Chemical Powder, Foam or Carbon Dioxide
media	
<b>Precautions for</b>	Wear full protective gear.
firefighters and special	
protective clothing	
HAZCHEM CODE	2X

## **Section 6: Accidental Release Measures**

Wear protective clothing as detailed in Section 8. Evacuate all unnecessary personnel. Stop the leak, if possible.

Do not allow to enter waterways.

If product is released or spilled: Neutralise with dilute alkali (soda ash or slaked lime) & then flush away with copious amounts of running water.

## **Section 7: Handling And Storage**

#### **Handling:**

- Read label before use.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.

### **Storage:**

- Store locked up in the original container.
- Keep out of reach of children Protect from physical damage.
- Clean up all spills immediately to prevent secondary accidents.
- Store away from incompatible materials listed in Section 10.

## **Section 8: Exposure Controls/Personal Protection**

## **WORKPLACE EXPOSURE STANDARDS** (provided for guidance only)

TWA STEL

Substance ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

#### No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minut average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

## **Personal Protection Equipment**



**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

## **Section 9: Physical And Chemical Properties**

Appearance	Liquid
Colour	Clear
Odour	Not available
Odour Threshold	Not available
pН	Not available
<b>Boiling Point</b>	100°C
<b>Melting Point</b>	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.00
Solubility in Water	Completely
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
Kinematic Viscosity	Not available
<b>Particle Characteristics</b>	Not applicable
<b>Evaporation Rate</b>	Not available

## **Section 10: Stability And Reactivity**

**Stability of the Substance:** Stable under general conditions

Conditions to avoid:

Materials to avoid: Oxidising agents **Hazardous Decomposition** None known

**Products:** 

**Conditions Contributing to Hazardous Polymerization** 

None known.

#### **Toxicological Information Section 11:**

### **Acute Effects:**

Swallowed	Harmful if swallowed. ENDPOINT: LD50 ;VALUE: 150 mg/kg
Dermal	Harmful in contact with skin. SPECIES: Rat ;ENDPOINT: LD50;VALUE: 1420
	mg/kg
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.
Eye	Causes serious damage to eyes. 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.
Skin	Causes severe skin burns and eye damage.

### **Chronic Effects:**

Carcinogenicity	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

## **Section 12: Ecological Information**

Very toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

**Ecological Toxicity:** SPECIES: Scenedesmus pannonicus (Green algae)

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

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

Bioccumulative: No Rapidly Degradable: Yes

## **Section 13: Disposal Considerations**

Disposal Method: Empty packaging completely prior to disposal. Do not pierce or burn, even after

> use. Place any recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with

local regulations.

**Precautions:** 

Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Corrosive". Do not allow to enter waterways if possible.

#### Section 14: **Transport Information**

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021



### Road, Rail, Sea and Air Transport

UN No	3266
Class - Primary	8
Packing Group	II
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 1L/kg, it can be transported
	as a non-DG as long as the product packaging is still labelled as per DG
	requirements and the driver is given safety information in accordance
	with Chapter 3.4 of the UNRTDG.

#### **Section 15: Regulatory Information**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Cleaning Products (Corrosive) - HSR0002526

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	250 L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100 L

Emergency Response Plan	100 L
Secondary Containment	100 L
Restriction of Use	None

## **Section 16: Other Information**

### Glossary

EC<sub>50</sub> Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms inhaling or

ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

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