

SAFETY DATA SHEET

According to

HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

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

Product: Moss Kill

Product Use: Moss, Mould & Lichen Remover

Restriction of Use: Refer to Section 15

Cmpany Details: Marketing Chemicals Ltd
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0800 764 766 (National Poison Centre)

Date of SDS Preparation: 6 September 2019

Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Cleaning Products (Corrosive) - HSR0002526

Pictograms:



Corrosive

Signal Word: DANGER

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1D (dermal)	H312	Harmful in contact with skin.	Acute Tox. 5
8.2B	H314	Causes severe skin burns and eye damage.	Skin Corr. 1B
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Acute 1

Prevention Code	Prevention Statement
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 gloves/protective clothing/eye protection/face protection*.

Response Code Response Statement

P101 If medical advice is needed, have product container or label at hand.

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P310 Immediately call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P363 Wash contaminated clothing before reuse. P391 Collect spillage. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P312P301 + P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse P303 + P361+P353 skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

P304 + P340

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, P305 + P351 + P338

if present and easy to do. Continue rinsing.

Storage Code Storage Statement P405 Store locked up.

Disposal Code Disposal Statement P501 Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Quaternary Ammonium Chloride	25.0 - 60.0	68424-85-1
Non hazardous materials	To Bal	

Section 4: First Aid Measures

Routes of Exposure:

Rinse cautiously with water for several minutes. Remove contact lenses, if present If in Eyes

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

If on Skin 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.

If Swallowed Rinse mouth. Do NOT induce vomiting. If vomiting occurs, lean patient forward or

place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Immediately call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not

breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	Harmful if swallowed.
Inhalation	Not applicable
Skin	May be harmful if in contact with skin. Causes skin burns.
Eyes	Causes serious eye damage.
Chronic	Not applicable.

Section 5: Fire Fighting Measures

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Hazard Type	Non Flammable.
Hazards from	None known.
products	
Suitable Extinguishing	All
media	
Precautions for	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.

Stop the leak, if possible. Ventilate the space involved. Contain, vacuum up, place in non-sparking container for disposal. Construct a dike to prevent spreading. Collect run-off and transfer to drums or tanks for later disposal. Dispose of according to Local Regulations.

Section 7: Handling and Storage

Handling:

- Read label before use.
- 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/m³ ppm mg/m³

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-minute 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 2017 9TH EDITION.

Personal Protection Equipment

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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
Boiling Point	100°C
Melting Point	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
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable
Evaporation Rate	Not available

Section 10: Stability and Reactivity

Stability of the Substance: Stable under normal storage and use conditions.

Conditions to avoid: Heat

Materials to avoid: Oxidising agents
Hazardous Decomposition None known.

Products:

Conditions Contributing to

Hazardous Polymerization

Not known.

Section 11: Toxicological Information

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	

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	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.

Chronic Effects:

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

Section 12: Ecotoxicological Information

HSNO Classes: 9.1A = 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

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Ouanternary Ammonium Compounds (Cas No 63449-41-2):

- Quantition of Tourist (Castro Cott)			
Route	Species	Duration	Value
			LC50/EC50
Algae	Scenedesmus pannonicus (Green algae)	72 hr (static)	0.08 mg/L
Acute aquatic, Crustacean	Ceriodaphnia dubia Water flea	48 hr	40.38 mg/L
Bioaccumulative	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 5433:2012



Road, Rail, Sea and Air Transport

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UN No	3266
Class - Primary	8
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 1L, 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.
Hazchem Code	2X

Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Cleaning Product(corrosive) - HSR002526

HSNO Classification: 6.1D(oral), 6.1E(dermal), 8.2B, 8.3A, 9.1A

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L (9.1A)
Emergency Response Plan	100L (9.1A)
Secondary Containment	100L (9.1A)
Restriction of Use	None

Section 16: Other Information

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms inhaling or

ingesting it.

LD₅₀ 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 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 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.

For General Information: Marketing Chemicals Ltd,

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