

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: **AMAZING HASTE MOSS & MOULD KILLER**
Recommended Use: Outdoor cleaning product for hard surfaces, e.g. boats, bricks, caravans, concrete, decks, driveways, fences, pathways, masonry.
Supplier: TMK Packers Ltd
Address: 2/20 Trugood Drive, East Tamaki.
PO Box 258 031, Botany, Manukau 2163
Telephone: (+64) 9 273 3753
Facsimile: (+64) 9 273 3752
Website: www.tmkpackers.co.nz
Emergency phone: National Poisons Centre
0800 POISON [0800 764 766]

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020* of the HSNO Act, 1996.

HSNO Approval: HSR002526
HSNO Classifications: Skin corrosion/irritation, Category 1B ; Eye corrosion/ irritation, Category 1; Hazardous to the aquatic environment, acute, Category 1.

Pictograms:



Signal word: **DANGER**

Hazard Statements:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life.

Prevention Statements:

P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe vapours/spray.
P264 Wash hands and exposed skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves and eye protection.

Response Statements:

P101 If medical advice is needed, have product container or label at hand.
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.
P363 Wash contaminated clothing before re-use.
P304 + P340 IF INHALED: Remove 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 THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor.

P391 Collect spillage.

Storage Statements:

P405 Store locked up.

Disposal Statement:

P501 Dispose of product and containers in accordance with local regulations.

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	9 - 10
Other ingredients*, including water	Trade secret	Balance

* do not affect the hazardous classifications for the mixture

4. FIRST AID MEASURES

For advice, contact National Poisons Centre (0800 POISON; 0800 764 766) or a doctor.

Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth with water. Immediately call a POISON CENTRE or doctor for advice.

Skin Contact

If skin contact occurs, remove contaminated clothing and rinse skin with plenty of water. If irritation persists, get medical attention. Wash contaminated clothing before re-use.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get immediate medical attention.

Inhalation

Move the person to fresh air immediately. Keep person warm and at rest until recovered. Get immediate medical advice if person has symptoms or is unwell.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Advice to Doctor

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Use an extinguishing media suitable for surrounding materials/fire. Water spray or water fog, dry chemical or alcohol foam or CO₂. Do not use water jet.

Fire & Explosion hazards: Non-flammable liquid.

Hazards from combustion products: Smoke, carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride and other unspecified compounds..

In event of fire:



- Alert Fire Bridge (111); advise location and nature of hazard.
- Keep bystanders away.
- Wear breathing apparatus and protective gloves.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

Firefighting Equipment: Full protective clothing and self-contained breathing apparatus (SCBA).

Hazchem code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity"

Minor spills

- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labeled container that can be sealed.
- Seal container and dispose of safely.

Major spills

- Clear area of personnel/bystanders and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Stop leak if safe to do so.
- Contain spill with sand, earth, or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Collect recoverable product into labeled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read label before use. Keep out of reach of children. Corrosive liquid to skin and eye tissue. Use in well-ventilated area. Do not allow clothing contaminated or wetted with product to stay in contact with skin.

Wash hands and exposed skin with soap and water after handling.

Keep container closed when not in use.

Conditions for safe storage:

Keep out of reach of children. Store locked up in a cool, dry place away from direct sunlight. Check containers periodically for leaks or distortion.

Incompatible materials: Mild steel, copper and copper alloys, aluminium, zinc and zinc alloys, strong acids.



8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

WES values are not set for components in the 13th edition of WES values published by WorkSafe April 2022.

Ingredient	Exposure route	WES-TWA	WES-STEL

Biological limit values:

Ingredient	Determinant	Sampling time	BEI

Engineering Controls:

Ventilation:

Use product outdoors or in well-ventilated area.

Personal Protective Equipment:

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Respiratory Protection: Do not breathe vapours, mist and spray. Wear an approved respirator when using in confined area or where over-exposure risk exists.

Eye Protection: Protect eyes from splashes; wear safety glasses with side shields or wear chemical goggles.

Skin/ Body Protection: Wear gloves, e.g. PVC or nitrile, also safety footwear or safety gumboots, e.g. rubber. Wear long sleeves and long trousers or coveralls to protect skin and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear green liquid
Odour	-	Non-specific
Odour threshold	-	Not available
pH	-	Not determined
Melting point/Freezing point	°C	Not determined
Initial boiling point/range	°C	Not available
Flash Point	°C	>100
Flammability (solid/gas)	-	Not applicable
Flammable limits	%	Not applicable
Vapour Pressure @ 20°C	KPa	Not available
Vapour Density @ 20°C	kPa	Not available
Specific gravity @ 20°C	g/ml	~1.0
Solubilities	-	Soluble in water
Partition coefficient: n-octanol/water	-	Not determined
Auto-ignition temperature	°C	Not determined
Decomposition temperature	°C	Not determined
Kinematic viscosity	cSt	Not available
Particle characteristics	-	Not applicable

The values listed are indicative of this product's physical and chemical properties.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.



Conditions to avoid: Sources of heat, overheating.

Hazardous decomposition products: No decomposition products except on burning.
See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions: No specific information.

Hazardous polymerization: Not known to occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information determined for mixture.

Acute toxicity: May be harmful if swallowed.

Respiratory irritation: Inhalation of vapours may cause some discomfort to upper respiratory tract.

Skin corrosion/irritation: Corrosive to skin.

Eye damage/irritation: Cause damage to eyes. Symptoms of tearing, swelling, redness, burning sensation and blurred vision.

Respiratory/skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific organ toxicity: Not classified.

Narcotic effects: No information.

Toxicological information:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Rat, oral LD₅₀ 344 mg/kg bw

12. ECOLOGICAL INFORMATION

Toxicological information determined for mixture.

Ecotoxicity:

Aquatic toxicity: Product is very toxic to aquatic life.

Soil environment: Not classified.

Terrestrial vertebrate toxicity: Not classified.

Terrestrial invertebrate toxicity: Not classified.

Persistence/degradability: Not expected to be persistent/

Mobility: No specific information.

Ecotoxicity Information:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Rainbow trout, LC₅₀ (96 hr) 0.93 mg/L

Fathead minnow, LC₅₀ (96 hr) 0.28 mg/L

Daphnia magna, EC₅₀ (96 hr) 0.016 mg/L

Environmental Exposure Standards: Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Care should be taken to ensure compliance with national, regional and local authority regulations.

Dispose of product safely. Do not pour down drains or sewers.

Packaging may still contain residues. Ensure that empty packaging is rinsed with water. If not recycled, puncture and crush before disposal to landfill. Do not use container for storage of other products.



14. TRANSPORT INFORMATION

UN Number: 1903
Shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S (9 -10 % QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)
Class: 8
Subclass: 9
Packing group: II
Hazchem code: 2X



Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 8, packing group II.
Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.

Environmental hazards: Yes
Marine pollutant: Yes
Special precautions: No

15. REGULATORY INFORMATION

Country/ Region: New Zealand
Inventory: NZIoC
Status: Components listed

EPA New Zealand Approval Code:

Cleaning Product (Corrosive) Group Standard 2020: HSR002526.
Refer www.epa.govt.nz for information on Controls (HS Notices) and www.worksafe.govt.nz .

Packaging: Schedule II

Child resistant packaging required if container is 5 L or less. Container must also be permanently identified as containing a CORROSIVE substance. Does not apply if only supplied to a workplace and children cannot gain access.

Requires management in accordance with HSW HS Regulations: 1000 kg or 1000 L

Location Compliance Certificate: Yes (250 kg or 250 L)

Amounts that must be secured when unattended: Not applicable

Fire extinguishers: Not applicable

Threshold quantity for secondary containment and emergency response plan: 100 kg or 100 L

Threshold quantity for signage: 100 kg or 100 L

Tracking required: No

Certified Handler: No

Agricultural Compounds and Veterinary Medicines Act (ACVM) 1997: Registration not required.
Montreal Protocol, the Stockholm Convention or Rotterdam Convention: Not applicable.

Product : Amazing Haste Moss & Mould Killer
Date of Issue: 15th June, 2022

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16. OTHER INFORMATION

Issue number: 5
Date of Issue: 15th June 2022
Reasons for Issue: Product composition change and update GHS classifications, HSNO number and SDS information.
Replaces: 28th March 2019

Abbreviations:

CAS No Chemical Abstracts Number
EPA Environmental Protection Authority
GHS Global Harmonised System
HS Hazardous Substance
HSNO Hazardous Substances and New Organisms
LFL Lower flammable limit
m³ cubic metre
mg milligram
NZIoC New Zealand Inventory of Chemicals
ppm Parts per million
STEL Short Term Exposure Limit
TWA Time Weighted Average
UFL Upper flammable limit
WES Workplace Exposure Standard

References:

Supplier Material Safety Data Sheets
EPA website: www.epa.govt.nz

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

