

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 Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 6.1E, 6.3A, 6.4A, 6.5A, 6.5B, 6.9B, 9.1B



Signal word: **DANGER**

Hazard Statements :

H303 May be harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long-lasting effects.

Prevention Statements :

P102 Keep out of reach of children.
P103 Read label before use.



- P260 Do not breathe mist or spray.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to environment.
 P280 Wear gloves and eye protection.
 P285 In case of inadequate ventilated wear approved respiratory protection.

Response Statements:

- P101 If medical advice is needed, have product container or label at hand.
 P312 Call a POISON CENTRE or doctor if you feel unwell.

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice.
 P363 Wash contaminated clothing before re-use.

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice.

- P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

- P391 Collect spillage.

Storage Statements:

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Disposal Statements:

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

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%)
Benzalkonium chloride	8001-54-5	1 - 10
Nonylphenol, ethoxylated	9016-45-9	1 - 10
Water	7732-18-5	> 80

4. FIRST AID MEASURES

For advice, contact the National Poisons Centre (0800 POISON; 0800 764 766) or a doctor.
 Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Give water to drink. Get medical advice if person feels unwell.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists or rash develops, get medical attention.

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 medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if respiratory symptoms or person feels unwell.

First Aid Facilities: Provide eye bath and hand washing facilities.

Advice to Doctor: Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Flashpoint: Non flammable
Flammable limits: LFL : not available UFL: not available

Extinguishing media:

Water, foam, CO2, dry chemical.

Fire & Explosion hazards:

Do not breathe smoke, gases or vapours generated in a fire. Decomposition products may be toxic.

Firefighting Equipment:

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

In event of fire:

- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- 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.

Hazards from combustion products:

Product will emit toxic fumes.

Hazchem Code: 3Z

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity". Contain spill and prevent from entering waterways or storm water drains.

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 labelled container.
- Seal container and dispose of safely.

Major spills

- Clear area of personnel 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.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled 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 product label before use. Use outdoors or in a well-ventilated area. Avoid all personal contact including by inhalation. Wear personal protective equipment and clothing including gloves and wash hands with soap and water after handling. Do not eat, drink or smoke when using product. Do not allow clothing contaminated or wetted with product to stay in contact with skin.

Conditions for safe storage:

Store in original packaging in a cool, dry well-ventilated place out of reach of children. Check containers periodically for leaks or distortion.

Incompatible materials:

None identified.

8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

No Workplace Exposure Standards (WES) have been for components in this product.

Biological limit values: None established

Engineering Controls:

Ventilation: Avoid breathing vapours, mist or spray. Use product outdoors or in a well-ventilated area.

Personal Protective Equipment:

Respiratory Protection: Not normally required. Wear a SAA approved respirator when using in confined area or where over-exposure risk exists.

Eye Protection: Protect eyes from splashes. Always use safety glasses with side shields, or wear goggles.



Skin/ Body Protection:

Wear gloves, e.g. PVC or nitrile, also safety footwear or safety gumboots, e.g. rubber, and clothing with long sleeves and long trousers or coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Green liquid
Odour	-	No distinguishing odour
Flash Point	°C	> 100 °C
Specific gravity @ 20°C	g/ml	~ 1.0
Vapour Pressure @ 20°C	mm Hg	Not available
Vapour Density @ 20°C	kPa	Not available
Explosive Limits in Air	%	Not available
Viscosity	cSt	Not available
Volatiles	%vol/vol	Not available
Alkalinity/acidity (as pH)	-	Not available
Solubility in Water	% w/w	Miscible

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: No specific information available.

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

Hazardous reactions: No specific information available.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Unlikely to be harmful if swallowed however gastrointestinal tract discomfort may result in nausea and vomiting.

Eye Contact

This product may be irritating to the eyes resulting in tearing and redness. Repeated or prolonged exposure will aggravate and symptoms (redness) and may also lead to blurred vision and transient eye damage or ulceration.

Skin Contact

This product can be irritating to the skin and may cause an allergic skin reaction.

Inhalation

Vapours and mist may cause discomfort including allergic or asthma like symptoms.

Chronic Effects: No specific ill-effects identified.



Other Health Effects Information: No specific ill-effects identified.

Toxicological Information:

Benzalkonium chloride Oral, LD₅₀, mouse 150 mg/kg
Dermal, LD₅₀, rat 1420 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Product has been identified as being toxic to aquatic life (fish, crustacea, algae).

Persistence/degradability: Not expected to be persistent nor bioaccumulative.

Mobility: No information available.

Other information: Benzalkonium chloride
Fathead minnow EC₅₀ (96hr) 0.28 mg/L

Environmental Exposure Standards: Not set.

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, regional and local authority regulations. Packaging may still contain product residue.

14. TRANSPORT INFORMATION

UN Number: 3082
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(CONTAINS BENZALKONIUM CHLORIDE)
Class: 9
Packing group: III
Hazchem code: 3Z

Dangerous Goods Segregation

This product is classified as Dangerous Good Class 9.

Please consult NZS 5433:2012 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: New Zealand
Inventory: NZ Inventory of Chemicals
Status: Listed

EPA New Zealand HSNO Approval Code: HSR002530; Cleaning Product (Subsidiary Hazard) Group Standard 2006.

Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Issue: 4
Date of Issue: 29th May, 2015
Reasons for Issue: 5-year review of Safety Data Sheet.
Replaces: 27th April 2010

Abbreviations:

CAS No Chemical Abstracts Number
EPA Environmental Risk Management Authority
HSNO Hazardous Substances and New Organisms
NZIoC New Zealand Inventory of Chemicals
STEL Short Term Exposure Limit
TWA Time Weighted Average
WES Workplace Exposure Standard

References:

Supplier 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

