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MATERIAL SAFETY DATA SHEET INFORMATION For further information: Please refer to the Material Safety Data Sheet following

Issue: December 12

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PRODUCT: Mouldshield K

Other Names: Antifungal agent

Hazardous Nature:

Appearance

Uses: Heavy duty antifungal agent

UN No.: 3082

Dangerous Goods Class: 9

Poisons Schedule:

Subsidiary Risk: None

Packing Group:

Hazchem Code: 2X

Council criteria.

Exposure Standards: TWA: None specified: consider 5 g/m³; STEL: None specified: consider 5 g/m³; Peak

Clear, yellow liquid

Limitation (if any): None; Skin Sensitiser (if any): none. Refer to Section 8 for further

This product is classified as hazardous according to Australian Safety and Compensation

information and definitions.

Physical Characteristics (Typical) Section 9 of the MSDS

Boiling Point/Range (°C): 224

Flash Point (°C): 105

Specific Gravity/Density (g/ml @ 15°C): 0.95

pH: Not applicable

Chemical Stability: This product is stable at room temperature and pressure.

Reactivity: Heating, alkaline environments

Product Ingredients Section 3 of the MSDS

Ingredient	CAS Number	<u>Proportion</u>
Diethylene Glycol Monobutyl Ether	112-34-5	> 50
Terbutryn	886-50-0	< 10
Octylisothiazolone	26530-20-1	< 10

For further ingredients information, please refer to the full MSDS

Risk Phrases Section 2 of the MSDS

R 43: May cause sensitisation by skin contact

R 20/21: Harmful by inhalation and in contact with skin

R 36/38: Irritating to eyes and skin

R 53: May cause long term adverse effects in the aquatic environment

DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.



1. IDENTIFICATION

Product Name: Mouldshield K
Other Names: Antifungal agent

Chemical Family: Blended solvent system

Molecular Formula: Not Applicable

Recommended Use: Heavy duty antifungal agent

Supplier: Shieldcoat Pty Ltd **ABN:** 79 090 620 410

Address: 2/1075 Beaudesert Road, Archerfield Qld 4108

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2. HAZARDS IDENTIFICATION

Hazard Classification

This product is classified as hazardous according to Australian Safety and Compensation Council criteria.

Hazard Category

T: Toxic; N: Dangerous to the environment; Xn: Harmful; Xi: Irritant

Risk Phrases

R 43: May cause sensitisation by skin contact

R 20/21: Harmful by inhalation and in contact with skin

R 36/38: Irritating to eyes and skin

R 53: May cause long term adverse effects in the aquatic environment

Safety Phrases

S 1/2: Keep locked up and out of the reach of children

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection -

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

S 60: This material and its container must be disposed of as hazardous waste

S 61: Avoid release to the environment. Refer to special instructions/safety data sheets

Dangerous Goods Classification 9

Poisons Schedule 5

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Diethylene Glycol Monobutyl Ether	112-34-5	> 50
Terbutryn	886-50-0	< 10
Octylisothiazolone	26530-20-1	< 10

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

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Eve Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affective victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Water fog, or spray mist, extinguishing powder, carbon dioxide or foam

Hazards from combustion products

Nitrogen oxides, carbon monoxide, sulfur dioxide

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code

2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping use explosion proof pump or hand pump or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

Eliminate any sources of ignition.

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- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

7. HANDLING AND STORAGE

Precautions for Safe Handling

This product is combustible. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electric

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible Materials

Natural Rubber, Butvl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: None specified: consider 5 g/m³, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: None specified: consider 5 g/m³, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), where none applies in this case.

Biological Limit Values (BLV)

No data available

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or 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, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear, yellow liquid
Boiling Point/Range	°C	224

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Property	Unit of measurement	Typical Value
Flash Point	°C	105
SG/Density (@ 15°C)	g/ml; kgm ⁻³	0.95
Vapour Pressure @ 20°C	kPa	No data available
Vapour Density @ 20°C	g/ml; kgm ⁻³	No data available
Autoignition Temperature	°C	> 400
Explosive Limits in Air	% vol/vol	0.9 - 5.9
Viscosity @ 20°C	cPs, mPas	No data available
Percent volatiles	% vol/vol	100
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Partly soluble
Other solvents	-	Organic solvents

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

This product is stable at room temperature and pressure.

Conditions to avoid

Heating, alkaline environments

Hazardous decomposition products

Nitrogen compounds, sulfur dioxide, carbon monoxide on burning and oxidation

Hazardous reactions

Oxidising and reducing agents, strong alkalis

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

If swallowed, may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapours will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

Eye Contact

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

Skin Contact

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

Chronic Effects

Components of this product are suspected skin sensitisers and immunotoxicants.

Other Health Effects Information

Persons with pre-existing skin or respiratory conditions should avoid overexposure to this product.

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Toxicological Information

Oral LD₅₀: Octhilinone: Rat: 550 mg/kg

Dermal LD₅₀: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: This product is known to be toxic to aquatic life.

Daphnia Magna EC₅₀: No data available Blue-green algae: Expected to be toxic Green algae: Expected to be toxic

Persistence/Biodegradability:

Octhilinone: log P: 2.45; Terbutryn: log P: 4.3

Mobility:

This product is soluble in water and is expected to be highly mobile on dilution.

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. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3082	UN No.	3082	UN No.	3082
Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.
DG Class	9	DG Class	9	DG Class	9
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	2X	Hazchem	2X	Hazchem	2X

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 9 for Transport by Road, Rail, and Sea.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS Status: Listed

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Poisons Schedule: 5

16. OTHER INFORMATION

Reasons for Issue: Upgraded MSDS. New information in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer ASCC: Australian Safety and Compensation Council

References:

Supplier Material Safety Data Sheets

• Sax's Dangerous Properties of Industrial Materials, Richard J Lewis Snr., pub. Canada (2000)

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 Shieldcoat Pty Ltd.

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