

SAFETY DATA SHEET : VAPOR GARD

1. IDENTIFICATION

Product Name: Vapor Gard
Product Code:
Other Names: pinolene (a terpenic non-ionic polymer)
Recommended Use: anti-transpirant
Distributor: Key Industries Ltd
Address: P.O. Box 65070, Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 494 1659
National Poisons Centre: 0800 POISON (0800 764 766)

2. HAZARDS IDENTIFICATION

Hazard Classifications: 6.3B, 6.4A, 6.5B, 9.1A
Hazards: May cause skin and eye irritation.
May cause sensitisation (allergenic dermatitis) from repeated or prolonged skin contact.
Very toxic to fish and aquatic organisms.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (w/w)
di-1- <i>p</i> -menthene	34363-01-4	>60%
Other non-hazardous materials	n/a	1 – 5%

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning.

If swallowed do NOT induce vomiting. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If conscious and alert, rinse mouth and drink 1-2 cupfuls of water. If splashed in eyes, flush immediately with plenty of water for 15 minutes. Do not rub or close eyes. If skin or hair contact occurs, remove contaminated clothing and wash affected area with soap and water.

5. FIRE FIGHTING MEASURES

Extinguish fire using fine water spray, carbon dioxide, foam or dry agent as extinguishing media. Contain all water run-off. Use breathing apparatus and gloves.

Hazchem Code

2Z

NFPA (USA)

not established

Flash Point

>200°C Non-flammable and not combustible.

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

Date of Issue: 28th August 27, 2017

Date of Revision: : 28th August 27, 2022

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6.. ACCIDENTAL RELEASE MEASURES

Small Spills

Wear appropriate protective clothing whilst cleaning up small spills (see Personal Protection). Apply absorbent material such as earth, sand or clay granules to the spill. Sweep up material for disposal when absorption is complete. Clean up minor spills immediately.

Large Spills

Wear protective clothing. Clear the area of all unprotected personnel. Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or clay granules to spill area. Form a barricade around the spill and in front of drains or waterways in spill vicinity, using earth or other available material. Prevent entry of material into drains or water ways.

Waste Disposal Method

Contaminated absorbent and wash water should be disposed of according to local regulations under the Resource Management Act. Avoid contamination of any water supply with chemical or empty container.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear chemically impervious gloves and long sleeved clothing. Wear approved safety glasses or goggles. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, feed, or food by storage, handling, or disposal. Read and observe all precautions and instructions on the label. Avoid contact with food, clothing, medicines or other household goods during transportation.

Conditions for safe storage

Store containers upright and closed. Store in a cool, dry place away from direct sunlight and in well-ventilated areas. Keep away from heat and strong oxidizers. Emptied containers may retain product residues and therefore require rinsing before disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Exposure guideline: 245 mg/m³.

Engineering Controls

Use in well ventilated areas. No special engineering controls are required for normal use. Keep containers closed when not in use.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION- Cont

Hygiene Controls

Facilities for storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands and face after work.

Personal Protective Equipment

Respiratory Protection

Generally not required.

Eye Protection

Wear approved safety glasses.

Skin/Body Protection

Wear waterproof gloves and cover exposed arms and legs. Practice normal hygiene when opening the container and using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	yellow - amber liquid
Odour	moderate (terpene-like)
Physical State	liquid
pH	neutral
Boiling Point	not established
Melting Point	not applicable
Flashpoint	>93°C
Flammable Limits	Not established
Corrosivity	non-corrosive
Specific Gravity @ 20°C:	0.94 g/ml
Vapour Pressure	very low at 25°C (0.0212 Pa)
Vapour Density	not established
Solubility	Forms an emulsion with water. The soft flexible film formed after spray application reduces water transpiration lost from plant foliage. Active for 2 - 3 months.

10. STABILITY AND REACTIVITY

Chemical Stability

Product is considered stable. Avoid exposure to heat.

Specific Materials to Avoid

Can react with strong oxidizing agents and strong acid catalysts.

Hazardous Decomposition

If involved in a fire, it may emit fumes containing toxic compounds.

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11. TOXICOLOGICAL INFORMATION

Acute Effects

Low toxicity

Ingestion: Acute oral LD₅₀ rat >5000 mg/kg.

Dermal: Acute dermal LD₅₀ rat >2000 mg/kg

Inhalation: Acute inhalation LC₅₀ rat >2.46 mg/L/4 hrs (highest conc. attainable, no deaths recorded).

Eye Contact: Slightly irritant.

Skin Contact: Generally non-irritant, but may cause mild irritation in sensitive persons. May cause sensitisation from prolonged or repeated skin contact.

Chronic Effects

Long term exposure is not known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Moderately toxic to -

fish (acute LC₅₀ 20 mg/L, 96 hrs),

aquatic invertebrates (*Daphnia magna*) (acute EC₅₀ 55 mg/L, 48 hrs), and

algae (acute EC₅₀ 3 mg/L, 72hrs).

Non-toxic to bees (acute LD₅₀ 200 µg/bee, 48 hrs).

Non-toxic to earthworms (acute LC₅₀ 1000 mg/kg, 14 days).

Environmental Fate

Fate in soil: The active ingredient is non-mobile (Koc 25,000) and is degraded in soils by micro-organisms in about 15 days.

Fate in water: Not readily degradable in water. It is partly soluble in water. It may cause long-term adverse effects in aquatic environments.

Other: It has no inhibitory effects on sewage micro-organisms.

13. DISPOSAL CONSIDERATIONS

Product Disposal

This product should be disposed of according to local regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

14. TRANSPORT INFORMATION

This product is not classified as a Dangerous Good by the NZLTA ref 45001.

Store apart from animal and human foodstuffs.

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15. REGULATORY INFORMATION

ACVM Registration Number: Not applicable
HSNO Approval Code: HSR002503
HSNO Classifications: 6.3B, 6.4A, 6.5B, 9.1A
HSNO Controls:

Harmful – May cause skin and eye irritation. May cause allergic contact dermatitis from repeated or prolonged skin contact. Avoid skin and eye contact. Wear goggles, gloves and suitable protective clothing.

Very toxic to fish and aquatic organisms. Avoid contamination of any water supply with chemical or empty container.

16. OTHER INFORMATION

Reasons for Issue:

Update format and content to comply with legislation.

HSNO	Hazardous Substances & New Organisms
ASCC	Australian Safety & Compensation Council
ACVM	Agricultural Compounds & Veterinary Medicines

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace. 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 Key Industries Limited.