

Safety Data Sheet: RainGard

1. IDENTIFICATION

Product Name: RainGard
Other Names: Pinolene (a terpenic non-ionic polymer)
Recommended Use: Adjuvant, Non-ionic Spreader-Sticker
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)
International Company Name & Contact Details: MILLER CHEMICAL & FERTILIZER (AUSTRALIA) PTY LTD
Address: Level 3 / 141-149 Ifould Street, Adelaide, SA 5000
Tel: +61 08 8132 1644 Fax: +61 8 08 8132

2. HAZARDS IDENTIFICATION

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

Approval: HSR002503; Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017.

Hazard Classifications: 6.3B, 6.4A, 6.5B, 9.1A

Pictograms:



Signal word: WARNING

Hazard statements:
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Precautionary statements:

Prevention:
P103 Read label before use.
P261 Avoid breathing mist/vapours/spray.
P264 Wash hands and exposed skin thoroughly before use.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
Response:
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 reuse.
P305 + P351 + P338 IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P391 Collect spillage.

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

Storage:

Disposal:

Other information:

Hazardous Substance (Labelling) Notice 2017

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

NZS5433 Transportation of Dangerous Goods on Land

Classified as DG Class 9 for transport.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/v)
di-1- <i>p</i> -menthene	34363-01-4	90.4
Other non-hazardous materials	mixture	balance

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. Have product label or Safety Data Sheet at hand.

INGESTION: Rinse mouth. Give a glass of water to drink. Get medical advice if person feels unwell.

If vomiting occurs spontaneously, keep head below hips to prevent vomit entering lungs.

SKIN CONTACT: Wash with soap and water. If irritation or rash develops, obtain medical advice.

EYE CONTACT: Flush with running water for at least 15 minutes. Remove contact lenses if present, and easy to do after 5 minutes before continuing rinsing. If irritation develops, obtain medical assistance.

INHALATION: Remove patient to fresh air and keep at rest until recovered. Get medical advice if person feels unwell.

First Aid facilities:

Provide eye baths and safety showers close to work areas.

Advice to Doctor:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint: Non-flammable.

Suitable extinguishing media: Water fog, fine water spray, carbon dioxide, dry chemical, foam.

Hazards from combustion products: Generates carbon dioxide, carbon monoxide and smoke.

Precautions for fire fighters and special protective equipment: Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray.

Hazchem Code: 3Z

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6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions:

Wear appropriate personal protection equipment to prevent exposure by inhalation, and to skin and eyes. Ensure adequate ventilation. Wear approved respirator where mist or dust of unknown concentration may be generated. Self-contained breathing apparatus is recommended.

Environmental Precautions:

Contain spillage and prevent from entering drains, sewer or any water course. In event of spillage contaminating a water-course, notify the Police, local Health Protection Officer and Council.

Methods and materials for containment

Dyke and contain spillage with sand, earth, sawdust or vermiculite and transfer liquid and solids separately to labelled containers for recovery or disposal. Clean up and report spills immediately.

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.

Changing out of work clothing and showering recommended at the end of each work shift. Wash work clothes separately from other household clothing.

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 in original container. Store in a cool, dry place away from direct sunlight and in well-ventilated areas.

Keep away from sources of ignition, heat and strong oxidizers. Store apart from animal and human foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Health Exposure Standards: Workplace Exposure Standards (WES), have not been set by Worksafe for compounds in this substance:

Biological limit values: None established

Engineering Controls:

Ventilation: Use outdoors or in a well-ventilated area.

Personal Protective Equipment:

Respiratory Protection: Respiratory protection may be necessary under certain use conditions. Under such conditions, an approved respirator or disposable face mask according to local standards, must be worn.

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Eye Protection: Wear safety goggles or face shield.

Skin/ Body Protection: Wear chemical resistant elbow length gloves (rubber, neoprene, nitrile or equivalent), waterproof boots, protective clothing, e.g. overalls with long sleeves buttoned at neck and wrist, long pants).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear red-amber colour liquid
Odour	Moderate, terpene
Odour threshold	Not determined
pH	6.0 – 7.0 @ 20°C
Melting/Freezing point °C	-18 °C
Boiling Point/Range °C	Not determined
Flash Point °C	> 100 °C
Flammability (solid, gas)	Not applicable
Upper/lower flammability/explosive limits	Not known
Vapour Pressure mm Hg @ 20°C	0.0212
Vapour Density Pa @ 25°C	>4 (air =1)
Relative density	0.92 – 0.93 g/ml @ 20°C
Solubilities	Emulsifies in water
Partition coefficient: n-octanol/water	Not determined
Autoignition Temperature °C	268 °C
Decomposition Temperature °C	Not determined
Kinematic viscosity	Not determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to avoid: Contact with oxidizing agents, excessive heat and sources of ignition.

Hazardous decomposition products: At high temperatures may release oxides of carbon.

Hazardous reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity classifications determined by assessment of the components in the formulated mixture.

Acute toxicity: Not classified. Large doses may cause nausea, vomiting and stomach pains or cramps.

Aspiration hazard: Not classified as an aspiration hazard.

Respiratory irritation: Not classified as respiratory irritant.

Skin corrosion/irritation: May be mildly irritating to skin.

Serious eye damage/irritation: Irritant.

Respiratory or skin sensitization: Classified as a contact sensitizer with prolonged or repeated exposure.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific organ toxicity: Not classified.

Narcotic effects: Not classified.

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Toxicological Information:

Oral, rat, LD₅₀ >5000 mg/kg

Inhalation, rat, LC₅₀ (4 hr) >2.46 mg/L (highest concentration attainable)

Dermal, rabbit, LD₅₀ >5000 g/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: This mixture is classified as very toxic to aquatic life. Do not contaminate waterways, sewers, or drains when using product, or disposing of product or wash water from equipment.

Persistence and degradability: Is degraded in soil by microorganisms in about 15 days. Not readily degradable in water.

Potential to be bioaccumulative: No specific information available for mixture.

Mobility in soil: Partially soluble in water. Log _{KOC} >4.4.

Other adverse effects: No information available

Ecotoxicological Information:

Fish, LC₅₀ (96 hr) 5.7 mg/L

Daphnia magna, EC₅₀ (48 hr) 0.26 mg/L

Algae, EC₅₀ 0.18 mg/kg

Earthworms, acute LD₅₀ (14 days) 1000 mg/kg

Honey bee, acute LD₅₀ (48 hr) 200 µg/bee

Environmental Exposure Limits (EEL's): Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure container is empty before disposal to landfill. Triple rinse with water. Use rinsings in preparing the diluted solution.

Waste should be disposed of to an approved waste disposal facility or by burying at an approved site. Do not burn product or containers.

Ensure disposal of containers and product is in compliance with requirements of national and local authorities.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3082	UN No.	3082	UN No.	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS LIQUID, NOS (TERPENE POLYMER)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS LIQUID, NOS (TERPENE POLYMER)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS LIQUID, NOS (TERPENE POLYMER)
DG Class	9	DG Class	9	DG Class	9
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3Z	Hazchem	3Z		

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

Date of Issue: 15th October 2018

Date of Revision: October 2023

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Marine Pollutant: Yes

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class for Transport.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

The maximum quantity per package permitted on a passenger service vehicle is 10 litres.

15. REGULATORY INFORMATION

HSNO Act 1996

Approval Code:

HSR002503

Additives, Process Chemicals and Raw Materials
(Subsidiary Hazard) Group Standard 2017.

Classifications:

6.3B, 6.4A, 6.5B, 9.1A

Controls:

Refer to www.epa.govt.nz for information on Controls and
www.worksafe.govt.nz for further information on compliance.

Additional label statement requirements:

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

ACVM Act 1997

Registration Number:

Not required (exempt product).

16. OTHER INFORMATION

Date of issue: 15 October 2018

Reasons for Issue: Update SDS format and content to comply with change in regulations.

Replaces: SDS dated 20 August 2014.

Abbreviations:

ACVM	Agricultural Compounds and Veterinary Medicines
EPA	New Zealand Environmental Protection Authority
GHS	Global Harmonised System
HSIS	Hazardous Substance Information System
HSNO	Hazardous Substances and New Organisms
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit (15 minute exposure period)
TWA	Time-Weighted Average (8 hours exposure period)
WES	Workplace Exposure Standard

References:

EPA www.epa.govt.nz
Supplier information and SDS



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www.keyindustries.co.nz

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Worksafe NZ www.worksafe.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 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.

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