

PYRADYM[®]

Date of Issue: 20 September 2008

1. Identification of the substance and company

Chemical Name : pyrethrins

Recommended use An insecticide for the control of a wide range of insect pests on Avocados, Citrus, Kiwifruit and Ornamentals

Supplier: Henry Manufacturing Limited
Box 12-015
Ahuriri
Napier

Tel: 027-294-1490
Fax: 09 5354408
E-mail: info@henrymanufacturing.co.nz

Emergency Phone: 0800 POISON (0800 764 766) 24 hours

2. Hazards Identification

Hazard Classifications: 6.1E, 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.4A

Identification Details: ECOTOXIC
Very toxic to fish and other aquatic organisms.
Very toxic to bees and other terrestrial invertebrates.

3. Composition & Information on Ingredients

<u>Common Name</u>	<u>CAS No</u>	<u>% w/v</u>
Pyrethrins	8003-34-7	2.9 – 3.6
Hydrocarbons	proprietary	85-95%

4. First Aid Information

Health Hazards (Acute & Chronic)

Acute: May be harmful if inhaled. May cause skin irritation. May cause respiratory sensitisation and an allergic skin reaction.

Chronic: May cause reproductive/development damage from repeated oral exposure and lung damage at high doses.

Carcinogenicity: Negative

Emergency and First Aid procedures:

- Eye** Flush eyes with water for 15 minutes. Get medical attention if irritation persists.
- Contact:**
- Skin:** Avoid skin contact. Remove contaminated clothing and wash skin and hair with running water. Get medical attention if irritation persists.
- Inhalation:** Avoid inhalation. Remove patient to fresh air. If recovery delayed obtain medical advice. Give CPR if not breathing.
- Ingestion** If swallowed, do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

5. Fire Fighting Measures

- Hazchem Code:** 2X
- Extinguishable media:** Fine water fog spray, foam or carbon dioxide.
- Equipment:** Full protective clothing and self contained breathing apparatus.
- Conditions:** Contain spill using absorbent inert material. Collect and place in containers for landfill disposal.
- Hazardous decomposition or by-products:** Under fire conditions this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide and nitrogen oxides.

6. Accidental Release Measures

- Personal Precautions:** Wear face mask, gloves, overalls and boots.
- Safety Precautions:** Avoid access by children. Wear appropriate protective clothing.
- Environmental Precautions:** Avoid contamination of any water supply, drains etc with diluted and undiluted material.
- Waste disposal method:** Ensure product container is empty before triple rinsing and adding rinsate to spray tank. Recycle clean container in the AgRecovery program or crush and bury in a suitable landfill.

7. Handling & Storage

- Handling:** Avoid contact with skin and eyes and inhalation of product when opening, mixing and using.
- Storage:** Store in original container, tightly closed, in a cool dry well-ventilated place, out of direct sunlight and away from foodstuffs. When stored appropriately under ambient temperatures, Pyradym should show no significant degradation for two years.
- Conditions to Avoid:** Direct sunlight, freezing and elevated temperatures above 35⁰C.
- Packaging materials:** 1 and 5-litre HDPE jerry cans

8. Exposure Controls / Personal Protection

Protective Gloves:	Rubber gloves
Face and Inhalation protection:	Face shield or mask
Other protective clothing or equipment;	Overalls and covered footwear
Work/Hygiene Practices:	Do not allow product to come into contact with food preparation surfaces. A water supply for washing should be available where accidental exposure may occur. Wash contaminated areas with suitable detergent. Wash hands after handling product especially before eating and drinking.

9. Physical & Chemical Properties

Appearance :	Clear yellow oily liquid
Odour:	pyrethrins
pH:	Neutral
Flash Point:	>110°C
Specific gravity:	0.8 – 0.9
Corrosiveness:	Non-corrosive
Oxidising:	Non-oxidiser

10. Stability & Reactivity

Stability:	Two years shelf when stored in original unopened container at ambient temperatures.
Conditions to avoid:	Direct sunlight and temperatures below freezing and above 35°C.
Hazardous Decomposition Products :	None known

11. Toxicological Information – Pyrethrins technical

Acute toxicity:	Oral LD ₅₀ 1400 mg/kg (rat)
Dermal toxicity:	Dermal LD ₅₀ >2000 mg/kg (rabbits)
Inhalation toxicity:	LC ₅₀ 3.4 mg/kg (rat)
Effects to eyes:	Mildly irritating, may cause stinging sensation
Effects to Skin:	Mild or slight irritation.
Sensitisation:	May cause respiratory and contact sensitisation such as allergic dermatitis.
Effects of ingestion:	May cause lung damage from single and repeated doses.
Chronic toxicity:	Not mutagenic or carcinogenic

12. Ecological Information – Pyrethrins technical

Aquatic:	LC ₅₀ Rainbow trout 0.05 mg/L LC ₅₀ Daphnia 0.012 mg/L LC ₅₀ Shrimp 0.0014 mg/L Half life in water <1 day
Soil:	DT ₅₀ 10.5 days, immobile in soil
Decomposition:	Decomposed by exposure to light with loss of insecticidal activity. Rapidly oxidised and inactivated by air.
Birds:	Oral LD ₅₀ >2000 mg/kg bw
Bees:	Oral LD ₅₀ 0.025 µg/bee

13. Disposal Considerations

Spillage:	Wear protective equipment. Contain spill with absorbent material and place in suitable labelled container for burial in a landfill. Prevent spilled material from directly entering ground or surface water.
Waste disposal method:	Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. Dispose of empty triple rinsed container either recycle in the AgRecovery program or crush and bury in a suitable landfill.

14. Transport Information

Transport Name: (Pyrethrins)	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazchem/Kemler code:	2X
UN Number:	3082
Packing Group:	III

15. Regulatory Information

ACVM Registration:	P7623
HSNO Approval Code:	HSR007880

16. Other Information

Refer to:-

- www.nzfsa.govt.nz/acvm for registration conditions
- www.ermanz.govt.nz for approval controls

Disclaimer - Exclusion of Liability: Please read

This Material Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Henry Manufacturing Limited as distributor, nor any other distributor have any liability of responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.