



SAFETY DATA SHEET

Non-Hazardous Substance, Non-Dangerous Goods

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: Garden Basics Pyrethrum Spray RTU

Recommended Use: Used to control a variety of insect pests on plants, vegetables and fruit trees.

Supplier: Pinegro Products Pty Ltd
ABN: 72 005 531 546
Suite 1, 137 Main Street
Bacchus Marsh, Victoria, 3340, Australia

Telephone Number: 61 3 5367 3222

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): S5

This material is not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road and Rail".

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS NO.	PROPORTION
Paraffinic Oil		20 g/L
Piperonyl butoxide	51-03-6	1.2 g/L
Pyrethrum	8003-34-7	0.3 g/L
Ingredients determined to be non-hazardous		Balance
		<hr/> 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126)

Inhalation: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.



Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not Applicable.

Suitable Extinguishing Media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

LARGE SPILLS

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use. Check regularly for leaks.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

However, for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	Ppm	mg/m ³	ppm	mg/m ³		
Pyrethrum	-	5	-	-	-	Sen

As published by the Safe Work Australia.

TWA – The time-weighted average airborne concentration over an eight-hour working day for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sen' notice – sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Keep containers closed when not in use.

Personal Protective Equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Hygiene Measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

RECOMMENDATIONS FOR CONSUMER USE:
Wear gloves. Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form/Colour/Odour:	Milky emulsion with a mild, characteristic odour.
Solubility:	Emulsifiable in water
Specific Gravity (20 °C):	0.990-1.005
Relative Vapour Density (air=1):	>1
Vapour Pressure (20°C):	N Av
Flash Point (°C):	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N App
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	Approx. 100
% Volatile by Volume:	N Av
pH:	6.0-7.0
Viscosity:	N Av

(Typical values only – consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	No reactivity hazards are known for the material.
Chemical Stability:	This material is thermally stable when stored and used as directed.
Hazardous reactions:	No known hazardous reactions.
Conditions to Avoid:	Elevated temperatures and sources of ignition.
Incompatible Materials:	Oxidising agents.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin Contact: Contact with skin may result in irritation. May cause tingling, burning, itching or numbness in exposed areas which is transient, that can last up to 36 hours. May cause skin sensitization in sensitive individuals.

Ingestion: Swallowing can result in nausea, vomiting and abdominal pain.

Eye contact: May be an eye irritant.

Acute Toxicity

Inhalation: This material has been classified as non-hazardous.

Skin Contact: This material has been classified as non-hazardous.

For the active constituents:

PYRETHRUM

Dermal LD50 (rabbit): 300 mg/kg

PEPERONYL BUTOXIDE

Dermal LD50 (rabbit): >2,000 mg/kg

Ingestion: This material has been classified as non-hazardous.

For the active constituents:

PYRETHRUM

Oral LD50 (rat): 200 mg/kg

PEPERONYL BUTOXIDE

Oral LD50 (rat): 4,570 mg/kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to yes.
Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser.
Skin: this material has been classified as not a skin sensitiser.

Aspiration Hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.



Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as a Category 3 Hazard. Acute toxicity estimate (based on ingredients): 10 – 100 mg/L

For the active constituents:

PYRETHRUM

96hr LC50 (rainbow trout): 0.05mg/L

48hr EC50 (Daphnia pulex): 0.02mg/L

Very toxic to aquatic organisms.

PEPERONYL BUTOXIDE

96hr LC50 (sheephead minnow): 1.8mg/L

48hr EC50 (Daphnia magna): 0.51mg/L

Very toxic to aquatic organisms.

Long-term aquatic hazard: No information is available to complete an assessment.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

- Road & Rail Transport:** Not classified as Dangerous Goods by the criteria of the "Australian Code for the Dangerous Goods by Road and Rail.
- Marine Transport:** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
- Air Transport:** Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirement:

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
The Agricultural and Veterinary Chemicals Act (Commonwealth) and/or applicable Commonwealth, State or Territory control-of-use legislation.

16. OTHER INFORMATION

Literary reference

Reason(s) for Issue: This material safety data sheet has been prepared by Pinegro Products Pty Ltd. This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Pinegro cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Pinegro at the contact details on page 1. Pinegro's responsibility for the material as sold is subject to the terms and conditions of sale.