

Material Safety Data Sheet

Pyrethrum Insect Killer

1 PRODUCT DETAILS

Product Name: Pyrethrum Insect Killer with Piperonyl Butoxide

Synonyms: Pyrethrin based insecticide.

Use: A quick acting liquid insecticide especially suited for control of insect pests of vegetables, ornamentals and exotic crops. The piperonyl butoxide ingredient is used to enhance the activity of the permethrin (synergist).

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
PYRETHRUM	1.3%	8003-34-7
PIPERONYL BUTOXIDE	5.2%	51-03-6
POLYETHANOXY-9-NONYL PHENOL	20-40%	9016-45-9
WATER	Greater than 60%	7732-18-5

3. HAZARD IDENTIFICATION

Hazard Category: Irritant

ACUTE HEALTH EFFECTS

Swallowed:

May be harmful if swallowed. May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach. Can cause nausea and vomiting.

Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. Depending upon duration of exposure, eye damage may occur.

Skin:

Will cause irritation to the skin, with effects including; Redness, itchiness, and possible dermatitis.

Inhaled:

May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and possible confusion.

CHRONIC:

Prolonged or repeated skin contact may lead to dermatitis.

4. FIRST AID MEASURES

Swallowed:

If swallowed, DO NOT induce vomiting. Give a glass of milk. Seek medical assistance immediately

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin

thoroughly with water and soap if available. If irritation persists transport to hospital or doctor.

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing. Open all doors, windows and/or vents.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities nearby.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation. If safe to do so, move undamaged containers from fire area.

Flammability

This material is not a combustible/flammable liquid.

Fire/Explosion Hazard: Not an explosion hazard.

Hazardous Decomposition Products:

Decomposes on heating emitting soot, smoke, decomposition products and carbon monoxide. Fire Fighting Procedures Fire fighters to wear self-contained breathing apparatus (SCBA) if exposed to products of decomposition. Full protective clothing is also recommended.

6. ACCIDENTAL RELEASE MEASURES

Spillage: Ventilate the area. Remove all unnecessary personnel from spill area. Wear protective equipment. Contain using absorbent, sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight.
Store away from sources of heat or ignition.
Do not store below 0°C to prevent freezing.
Store away from oxidizing agents. Keep containers closed, when not using the product.
Store in original packages as approved by manufacturer.

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Personal Protection Equipment

Avoid skin, eye and inhalation contact.
CLOTHING: PVC or natural rubber apron or splash suit.
GLOVES: PVC or natural rubber.
EYES: Chemical goggles, faceshield or safety glasses with side shields to protect eyes.
RESPIRATORY PROTECTION: Avoid breathing of vapours or mists. If natural or local exhaust ventilation is not adequate, select and use an organic vapour respirator in accordance with AS/NZS 1715/1716.
If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light amber solution.
Boiling Point	100°C approx.
Melting Point:	0°C approx
Vapour Pressure:	Not available
Specific Gravity:	1.0 approx
Flash Point:	Not Applicable
Flammability Limits:	Not Applicable
Solubility in Water:	Completely soluble

10. STABILITY AND REACTIVITY

Stable under normal conditions of use.

CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.

INCOMPATIBLE MATERIALS: Strong alkalis, acids, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits smoke and fumes when heated to decomposition. May form carbon monoxide

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Pyrethrum (as 100%):

Acute Oral Toxicity LD₅₀ (rat) = 3500 mg/kg

Acute Skin Toxicity LD₅₀ (rabbit) = >19000 mg/kg

Piperonyl Butoxide (as 100%):

Acute Oral Toxicity LD₅₀ (rat) = 6150 mg/kg

Acute Skin Toxicity LD₅₀ (rabbit) = 1880 mg/kg

12. ECOLOGICAL INFORMATION

This substance may be harmful to aquatic organisms. Avoid contaminating waterways. Pyrethrins degrade quickly on exposure to sunlight and are not persistent in soil or water. Piperonyl Butoxide is also degradable in soils and water and is basically immobile in most soils.

- Aquatic Toxicity: Fish LC50
(Carassius Auratus) : 4.2 mg/L
LC50 (Rainbow

Trout) : 6.1 mg/L

- Aquatic Toxicity: LC50 (Daphnia
Magna) : 2.95 mg/L after 24 hrs

13. DISPOSAL CONSIDERATIONS

Disposal: In accordance with the Local, State & Federal EPA waste regulations.

Advise irritant nature. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options.

The unclean container must also be handled as hazardous waste until cleaned.

15. REGULATORY INFORMATION

Workplace Hazardous Substance

HAZARD CATEGORY: IRRITANT

RISK PHRASES

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S2 Keep out of reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S24/25 Avoid contact with skin and eyes.

S37/39 Wear gloves and eye/face protection.

S26 After contact with eyes, rinse immediately with water and seek medical advice.

S28 After contact with skin, wash immediately with soap and water.

Not a Dangerous Good.

Not a Scheduled Poison.

Disclaimer

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.