

Safety Data Sheet: PYGANIC

1. IDENTIFICATION

Product Name:	PYGANIC
Other Names:	Pyganic Organic Insecticide
Recommended Use:	Organic (botanical) contact insecticide for fruit, vegetables and ornamentals.
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

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

Approval:	HSR000051
Hazard Classifications:	6.5A, 6.5B, 6.9B, 9.1A, 9.4A
Pictograms:	



Signal word:	DANGER
Hazard statements:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H441 Very toxic to terrestrial invertebrates.
Precautionary statements:	
Prevention:	P103 Read label before use. P260 Do not breathe mist/vapours/spray. 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. P285 In case of inadequate ventilation wear respiratory protection.
Response:	P314 Get medical attention if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs, get medical attention. P363 Wash contaminated clothing before reuse.

Safety Data Sheet: PYGANIC

P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 If experiencing respiratory symptoms, call a POISON CENTRE or doctor.

P391 Collect spillage.

Storage:

-

Disposal:

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

Other information:

Hazardous Substance (Labelling) Notice 2017

Refer Section 15.

NZS5433 Transportation of Dangerous Goods on Land

Classified as DG Class 9 for transport. Refer Section 14.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Pyrethrins	8003-34-7	1.4
Other ingredients including water *	Mixture	Balance

* do not affect the hazardous classifications of the product

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. Do NOT induce vomiting. Get medical advice if person feels unwell.

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

SKIN CONTACT: Remove contaminated clothing. Rinse skin with plenty of soap and water. If irritation or rash develops, obtain medical advice. Wash contaminated clothing before reuse.

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. Get medical advice if irritation persists.

INHALATION: Remove patient to fresh air and keep at rest in a position comfortable for breathing until recovered. Get medical advice if person feels unwell or has respiratory symptoms, e.g. difficulty breathing.

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: Dry chemical, carbon dioxide, or foam. Use water fog/spray as appropriate for surrounding materials.

Hazards from combustion products: May generate harmful/toxic fumes/gases (e.g. carbon dioxide, carbon monoxide, nitrogen oxides) and smoke.

Precautions for fire fighters and special protective equipment: Do not breathe vapour from heated material. Wear self-contained breathing apparatus with full face-piece and protective clothing.

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

Date of Issue: 26th August 2019

Date of Revision: August 2024

Safety Data Sheet: PYGANIC

Hazchem Code: 3Z.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions:

Wear appropriate personal protection equipment to prevent contact with skin and eyes. Do not breathe vapours or spray mist.

Environmental Precautions:

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

Methods and materials for containment

Contain liquid spillage with earth, clay, sand or similar absorbent material. Collect into labeled container that can be sealed for disposal to landfill. Wash down area with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Keep out of reach of children. Read and observe all precautions and instructions on the label. Do not breathe vapours/mist/spray. Use in well-ventilated area, or with mechanical ventilation in enclosed spaces. Wear impervious gloves and protect eyes from splashes. Launder contaminated clothing before reuse.

Conditions for Safe Storage:

Store in closed original packaging and out of reach of children. Keep in a cool, well-ventilated place and away from sources of ignition or heat. Do not store with combustible materials, herbicides or fungicides, animal feed or foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Health Exposure Standards: Workplace Exposure Standards (WES), have been set by Worksafe for a compound in this substance:

Pyrethrum senitiser WES-TWA 5 mg/m³

Biological limit values: None established

Engineering Controls:

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

Personal Protective Equipment:

Respiratory Protection: Respiratory protection should not be necessary when well-ventilated area or with mechanical ventilation in enclosed spaces.

Eye Protection: Wear safety goggles or glasses or full face-shield to protect eyes from splashes.

Skin/ Body Protection: Wear impervious gloves, e.g. rubber, cotton overalls and closed in footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear amber-brown coloured liquid.
Odour	Sweet, characteristic of pyrethrum
Odour threshold	Not determined
pH	6.45 (as 5% aqueous solution)

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

Date of Issue: 26th August 2019

Date of Revision: August 2024

Safety Data Sheet: PYGANIC

Melting/Freezing point °C	Not determined
Boiling Point/Range °C	Not available
Flash Point °C	>93.3
Flammability (solid, gas)	Not applicable
Upper/lower flammability/explosive limits	Not applicable
Vapour Pressure mm Hg @ 20°C	Not available
Vapour Density Pa @ 25°C	Not determined
Relative density	0.922
Solubilities	Partially miscible in water
Partition coefficient: n-octanol/water	Not available
Autoignition Temperature °C	Not determined
Decomposition Temperature °C	Not determined
Kinematic viscosity	23.7 Cp (24°C)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to avoid: Heat or flame/ignition sources.

Hazardous decomposition products: On combustion, harmful toxic fumes/gases (e.g. carbon dioxide, carbon monoxide, nitrogen oxides) and smoke generated.
unspecified compounds and smoke generated.

Hazardous reactions: Not known to occur.

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity: Not classified as being acutely toxic by ingestion. Dermal contact or inhalation.

Aspiration hazard: Not classified as an aspiration hazard.

Respiratory irritation: Not classified as respiratory irritant.

Skin corrosion/irritation: Slightly irritating to skin.

Serious eye damage/irritation: Slightly irritating to eyes.

Respiratory or skin sensitization: Classified as sensitiser. May cause an allergic skin reaction and allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific organ toxicity: May cause damage to organs through prolonged or repeated exposure

Narcotic effects: Not classified.

Toxicological Information:

Oral, LD₅₀ (rat) >2000 mg/kg b.w.

Dermal, LD₅₀ (rat) >2000 mg/kg b.w.

Inhalation, LC₅₀ 4 hr (rat) >2.3 mg/L (the maximum attainable concentration for test)

12. ECOLOGICAL INFORMATION

Safety Data Sheet: PYGANIC

Ecotoxicity: This mixture is classified as very toxic to aquatic life with long lasting effects and as very toxic to terrestrial vertebrates. Do not contaminate waterways, sewers, or drains when using product, or when disposing of product or container.

Persistence and degradability: No specific information on product is available.

Potential to be bioaccumulative: No specific information available.

Mobility in soil: No specific information available.

Other adverse effects: No information available

Ecotoxicological Information: Pyrethrum - Rainbow trout (*Onchorhynchus mykiss*) LC₅₀ (96 hr) 5.2 mg/L
Daphnia pulex LC₅₀ (48 hr) 12 µg/L
Honey bee, contact LD50 0.022 µg/bee

Environmental Exposure Limits (EEL's): EEL_{water} 0.01 µg/L

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure packaging is empty before disposal to landfill or burning. Burn if circumstances permit, otherwise bury in landfill or recycle through Agrecovery collection point.

Waste should be disposed of to an approved waste disposal facility or by burying at an approved site.

Ensure disposal of packaging 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 SUBSTANCE, LIQUID, N.O.S.(CONTAINS PYRETHRINS)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS PYRETHRINS)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS PYRETHRINS)
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		

Marine Pollutant: Yes

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 9 for Transport.

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

15. REGULATORY INFORMATION

HSNO Act 1996

Approval Code: HSR000051; PyGanic

Classifications: 6.5A, 6.5B, 6.9B, 9.1A, 9.4A

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

Date of Issue: 26th August 2019

Date of Revision: August 2024

Safety Data Sheet: PYGANIC

Controls: Refer to www.epa.govt.nz for information on Controls.

Additional Controls under Regulation 77a: Do not apply onto or into water.

Additional label statement requirements under Hazardous Substances (Labelling) Notice 2017:

- 24 hour freephone emergency contact number
- Pictograms, signal word, hazard statements and precautionary statements
- Disposal information
- Active ingredient and concentration
- Statement (consumer product): Keep out of reach of children.
- Statement (consumer product): If medical advice is needed, have the product container or label at hand.
- Statement: Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.
- Statement (or similar wording): Do not apply into or onto water.
- Statement (or similar wording): Do not apply substance to plants if-
 - (i) Bees are foraging; or
 - (ii) The plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees).

ACVM Act 1997

Registration Number: P7039

Tradename: Pyganic

16. OTHER INFORMATION

Date of issue: 26th August 2019

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

Replaces: SDS dated 7 December 2017.

Abbreviations:

ACVM	Agricultural Compounds and Veterinary Medicines
ECHA	European Chemical Agency
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

Worksafe NZ www.worksafe.govt.nz

Safety Data Sheet: PYGANIC

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.