

SECTION 1: Identification

1.1 Product identifier

Product name : Pyganic Organic Insecticide

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Insecticide
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

1.4 Details of manufacturer or importer

Supplier

Sumitomo Chemical Australia Pty Ltd.
Level 5
Level 5 51 Rawson Street
Epping Epping NSW 2121
Australia
T +61 (0)2 8752 9000
reception@sumitomo-chem.com.au - www.sumitomo-chem.com.au

Distributor

Key Industries
15d Paul Matthews Rd
Auckland 0632
T +64 9 917 1791

1.5. Emergency phone number

Emergency number : 1800 033 111
Office hours: (+61) 1800 033 111
Poisons Information Centre (24 h): 0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number : HSR000051

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Hazardous to terrestrial invertebrates	H444

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) : Danger
Contains : Pyrethrins (1.4 %)
Hazard statements (GHS NZ) :
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
H400 - Very toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects
H444 - Hazardous to terrestrial invertebrates

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according to the Hazardous Substance SDS Notice 2017 (EPA)

Prevention	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P284 - Wear respiratory protection.
Response	: P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage.
Disposal	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Other, non-hazardous ingredients	-	60-100
Pyrethrins	CAS-No.: 8003-34-7	1.4

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.

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according to the Hazardous Substance SDS Notice 2017 (EPA)

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Information on mixed storage : Store away from incompatible materials and products. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
- Storage area : Keep out of direct sunlight.
- Special rules on packaging : Position containers so that any labelling information is visible. Keep packaging closed when not in use. Check containers and packaging regularly for leaks and damage.
- Packaging materials : Store always product in container of same material as original container.

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according to the Hazardous Substance SDS Notice 2017 (EPA)

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Pyrethrins (8003-34-7)	
New Zealand - Occupational Exposure Limits	
Local name	Pyrethrum
WES-TWA (OEL TWA)	5 mg/m ³
Remark (NZ)	dsen (Dermal sensitiser)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 13th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Personal protective equipment (PPE) must be suited to the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Avoid all unnecessary exposure. Wear recommended personal protective equipment.

Hand protection : Wear protective gloves

Eye protection : Wear eye protection: Chemical goggles or safety glasses

Skin and body protection : Wear protective clothing: Long sleeved protective clothing. Wear foot protection

Respiratory protection : Wear appropriate mask. Wear appropriate mask: Combined gas/dust mask with filter type

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

Other information : PPE compliant with the recommended standards should be selected.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: Amber Brown
Odour	: Sweet
Odour threshold	: No additional information available
pH	: 6.45
Evaporation rate	: No additional information available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Melting point: Not applicable
Boiling point	: No data available
Flash point	: 93.3 (>) °C Closed cup
Auto-ignition temperature	: No data available
Flammability	: Non flammable.
Vapour pressure	: No additional information available
Relative density	: No additional information available
Density	: Relative density: 0.922
Solubility	: No additional information available

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 23.7 mm ² /s 24°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosive limits	: No additional information available
Minimum ignition energy	: No data available

SECTION 10: Stability and reactivity

Reactivity	: No additional information available
Chemical stability	: No additional information available
Possibility of hazardous reactions	: No additional information available
Conditions to avoid	: No additional information available
Incompatible materials	: Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products	: No additional information available

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Pyganic Organic Insecticide	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.3 mg/l the maximum attainable concentration for test

Skin corrosion/irritation	: Not classified pH: 6.45
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

Pyrethrins (8003-34-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified
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Pyganic Organic Insecticide	
Viscosity, kinematic	23.7 mm ² /s 24°C

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Not classified
Terrestrial invertebrate toxicity	: Hazardous to terrestrial invertebrates.

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Pyganic Organic Insecticide	
LC50 - Fish [1]	5.2 mg/l Onchorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	12 µg/l Daphnia pulex
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 2000 mg/kg

12.2. Persistence and degradability

Pyganic Organic Insecticide	
Persistence and degradability	Rapidly degradable
Other, non-hazardous ingredients	
Persistence and degradability	Rapidly degradable
Pyrethrins (8003-34-7)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Pyganic Organic Insecticide	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Pyganic Organic Insecticide	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
3082	3082	3082
14.2. UN Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

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IMDG	IATA	UNRTDG
14.3. Transport hazard class(es)		
9	9	9
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail

Special provisions (UN RTDG)	: 274, 331, 335, 375
Limited quantities (UN RTDG)	: 5L
Excepted quantities (UN RTDG)	: E1
Packing instruction (UN RTDG)	: P001, IBC03, LP01
Special packing provisions (UN RTDG)	: PP1
Portable tank and bulk container special instructions (UN RTDG)	: T4
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP29

Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR000051

Pyrethrins (8003-34-7)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003349
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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date : 3/10/2024

Safety Data Sheet (SDS), New Zealand

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.