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Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name PYLON[®]

Product Code 00566949

Other means of identification

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(Pyrethrum)

UN Number 3082

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide

Details of manufacturer or importer

Manufacturer

Lonza NZ Ltd
13 – 15 Hudson Road,
Bell Block,
New Plymouth, 4312
New Zealand
Telephone: +64 6 755 9234
Fax: +64 6 755 1174
Web site: www.lonza.co.nz

Emergency telephone number

Emergency Telephone 0800 CHEMCALL (0800 243 622)

International Emergency Telephone +64 3 353 0199

Section 2: Hazard(s) identification

EPA New Zealand HSNO Approval Code or Group Standard HSR100392

HSNO Chemical Classification 6.3B, 6.5A, 6.5B, 6.8C, 6.9B, 9.1A, 9.3C, 9.4A

GHS Classification

Skin corrosion/irritation	Category 3 - (H316)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Effects on or via lactation - (H362)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aquatic toxicity – Acute	Category 1 - (H400)
Aquatic toxicity – Chronic	Category 1 - (H410)

Label elements



Signal Word

Danger

Hazard Statements

H316 – Causes mild skin irritation.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 – May cause an allergic skin reaction.

H362 – May cause harm to breast-fed children.

H373 – May cause damage to organs through prolonged or repeated exposure.

H412 – Very toxic to aquatic life with long lasting effects.

H433 – Harmful to terrestrial vertebrates.

H441 – Very toxic to terrestrial invertebrates.

Precautionary Statements - Prevention

Keep out of reach of children.

Keep away from food, drink and animal foodstuff.

Read label before use.

Do not breathe mist or vapours.

Avoid contact while nursing.

In case of inadequate ventilation wear respiratory protection.

Wash face and hands thoroughly after handling.

Do not eat, drink or smoke while using this product.

Contaminated clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves, protective clothing, eye and face protection.

Precautionary Statements - Response

Specific treatment (see Section 4 - First Aid on this SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a POISON CENTER (0800 764 766) or doctor/physician if you feel unwell.

Precautionary Statements - Storage

Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal facility.

Other hazards

May be harmful if swallowed.

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Section 3: Composition and information on ingredients

Substance

Chemical nature Mixture

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>
Pyrethrum	8003-34-7	1 – 5
Hydrotreated kerosene	64742-47-8	1 – 5
Propylene glycol	57-55-6	1 - 5
Other ingredients	Proprietary	Balance

Section 4: First aid measures

Description of first aid measures

General advice	The following are required: Running Water Emergency shower, hand wash, soap
Ingestion	If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
Eye Contact	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Skin Contact	Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue for at least 15 minutes. Wash clothing before reuse.
Inhalation	Avoid inhalation of spray or mists which are likely to be irritating. Remove to a source of fresh air and seek medical advice.
Self-protection of the first aider	First aider: Pay attention to self-protection. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protection recommended in Section 8.
Notes to physicians	No specific antidote. Treat symptomatically.

Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical or CO₂.

Large Fire Water spray or fog.

Unsuitable extinguishing media

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Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapours

Do not allow run-off from fire-fighting to enter drains or water courses

Hazardous combustion products: Oxides of sulphur. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Hazchem code 2X

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Dispose of contents/container to an approved waste disposal plant.

Methods and material for containment and cleaning up

Methods for containment

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Avoid dust formation. Pick up and transfer to properly labelled containers. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

Precautions to prevent secondary hazards

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling

Harmful - Keep out of reach of children.

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Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. When using do not eat, drink or smoke. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. Wash contaminated clothing before reuse.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in original container in a cool, well ventilated place, away from direct sunlight and extreme heat. Keep container tightly closed and away from food or food related materials.

Incompatible materials

Incompatible with strong oxidising agents.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits Propylene Glycol: TWA 150ppm vapour and particulates (474 mg/m³ vapour and particulates, 10 mg/m³ particulates only).
Pyrethrum: TWA 5 mg/m³. BHT; TWA 10 mg/m³.
Hydrotreated Kerosene: ACGIH 525 mg/m³ (TWA).
No TELs or EELs have been set by NZ EPA at this time.

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.

Hand Protection

Wear Chemical resistant gloves, the selected protective gloves have to satisfy the specifications of AS 2161. Suitable material: Nitrile rubber. Break through time >480 min. Gloves must be inspected prior to use. Replace when worn.

Skin and body protection

Wear suitable protective clothing. Clothing material compliant with AS 4501, and footwear compliant with AS/NZS 2210 are recommended.

Respiratory protection

Not normally required. Ensure adequate ventilation, especially in confined areas.

In case of inadequate ventilation wear respiratory protection.

AS/NZS 1716:2012: Respiratory protective devices

AS/NZS 1715:2009: Selection, use and maintenance of respiratory protective equipment

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Environmental exposure controls

No EEL values are set at this time.

Do not allow into any sewer, on the ground or into any body of water.

Hygiene/Other Precautions

Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Green
Odour	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5 – 6.5	
Melting point / freezing point		No information available
Boiling point / boiling range		No information available
Flash point	>100°C	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		No information available
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density		No information available
Water solubility		No information available
Solubility(ies)	Forms an emulsion in water	
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available
Other Information		
VOC Content (%)		No information available
Bulk density	1.004 g/ml	

Section 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under normal conditions.

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Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions

None known. Stable under normal conditions.

Conditions to avoid

No data available.

Incompatible materials

Strong acids, alkalis and oxidising agents.

Hazardous Decomposition Products

No decomposition if stored normally.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No information available. Avoid breathing mists.
Eye contact May cause eye irritation. Avoid contact with eyes.
Skin contact May cause skin irritation. Avoid contact with skin.
Ingestion Do not taste or swallow.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document, EU Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

ATEmix (oral) >5 000 mg/kg
ATEmix (dermal) >2 000 mg/kg

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Pyrethrum	200 mg/kg (RT)	1350 mg/kg (RT)	No data
Hydrotreated kerosene	>5000 mg/kg (RT)	>2000 mg/kg (RBT)	>5.2 mg/L (RT) 4h

RT = Rat

RBT = Rabbit

MSE = Mouse

GP = Guinea Pig

V = Vapour

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

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May cause mild skin irritation.

Serious eye damage/eye irritation

Not classified.

Sensitization

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

May cause harm to breast-fed children.

Specific Target Organ Toxicity [STOT] - single exposure

Not classified.

Specific Target Organ Toxicity [STOT] - repeated exposure

May cause organ damage from repeated oral exposure at high doses.

Aspiration hazard

Not classified.

Section 12: Ecological information

Ecotoxicity

LC50: Lethal Concentration to 50% of a test population

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Pyrethrum	Not listed	0.052 mg/L LC50 96h (<i>Oncorhynchus mykiss</i>)	0.002 mg/L EC50 48h (<i>Daphnia pulex</i>)
Petroleum distillates, hydrotreated light	Not listed	LC50: = 2.4 mg/L, 96h static (<i>Oncorhynchus mykiss</i>) LC50: = 2.2 mg/L, 96h static (<i>Lepomis macrochirus</i>) LC50: = 45 mg/L, 96h flow-through (<i>Pimephales promelas</i>)	LC50: = 4720 mg/L, 96h (<i>Den-dronereides heteropoda</i>)

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

Harmful to terrestrial vertebrates.

Very toxic to terrestrial invertebrates.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products

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Dispose of product only by using according to this label, or at an approved disposal facility in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill. DO NOT burn empty containers or product.

Section 14: Transport information

Land Transport

UN Number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Hazard Class	9
Packing Group	III
Environmental hazard	Yes
Special Provisions	Do not carry more than 1 litre of this product on a passenger service vehicle.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Pyrethrum), 9, III
Hazchem code	2X
IERG Code	47

IMDG

UN/ID no	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Hazard Class	9
Packing Group	III
Special Provisions	Not applicable
Marine pollutant	Yes
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Pyrethrum), 9, III

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

New Zealand

- This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO) 1996.
- The product must be under the control of an approved handler when applied in a wide dispersive manner; or by a commercial contractor.
- A written record of use, as per HPC Notice Part 4 Clause 48, is required if 3 kg or more of this product is used within 24 hours in a place where:
 - a) public may lawfully be present; or
 - b) the substance is likely to enter air or water supply and leave the place where it is under control.
 The information must be kept for a minimum of three [3] years.
- Do not apply into or onto water.
- This product must not be applied to plants in flower if they are likely to be visited by bees.

See section 8 for national exposure control parameters.

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Chemical Name	HSNO Chemical Classification
Pyrethrum	3.1D, 6.1D (All), 6.1D (O), 6.1E (D), 6.1E (I), 6.3B, 6.4A, 6.5A, 6.5B, 6.9B (All), 6.9B (I), 9.1A (All), 9.1A (C), 9.1A (F), 9.1C (A), 9.3B, 9.4A

Approved pursuant to the ACVM Act 1997: No: P009543. See www.foodsafety.govt.nz for registration conditions.

Section 16: Any other relevant information

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Key or legend to abbreviations and acronyms used in the safety data sheet

AS	Australian Standards
AS/NZS	Australian/New Zealand Standards
ATEmix	Acute Toxicity Estimate of mixture, calculation of toxicity of the mixture according to the EU Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS	Chemical Abstracts Service (Registry Number)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals, a globally harmonized system for classification and labelling of chemicals proposed by the United Nations.
HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
HPC Notice	Hazardous Substances (Hazardous Property Controls) Notice 2017. This notice is issued by the Environmental Protection Authority ("Authority") under sections 75 and 76 of the Hazardous Substances and New Organisms Act 1996 ("Act"). It is issued in accordance with section 76C of the Act, having had regard to the matters specified in section 76C(2).
IERG	Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB 76:2010 Standards Australia/Standards New Zealand).
IMDG	International Maritime Dangerous Goods Code for transport by sea.
LC50	LC stands for lethal concentration which causes the death of 50% (one half) of a group of test population.
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet