

SAFETY DATA SHEET

KIWICARE®

Product Name: *Permethrin+IGR Commercial Insect Control*

Print/View Date: 5/10/2022

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	Permethrin+IGR Commercial Insect Control
Recommended uses:	Insecticide
Restrictions on Use/Supply:	This substance must only be applied using ground-based application methods.
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

GHS Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Eye Dam. 1	Not applicable for the UN RTDG Model Regulations		Danger	H318	P102 P103 P280	P101 P305+P351+P338 P310	No storage statements	P501
Asp. Tox. 1	Not applicable for the UN RTDG Model Regulations		Danger	H304	P102 P103	P101 P301+P310 P331	P405	P501
STOT Rep. Exp. 2	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 P260	P314	No storage statements	P501
Aquatic Acute 1			Warning	H400	P103 P273	P391	No storage statements	P501
Aquatic Chronic 1			Warning	H410	P103 P273	P391	No storage statement	P501

Signal word:

DANGER

Dangerous Goods:

Dangerous Goods (Class 9)

Packaging Group:

III

Hazardous Substance (GHS) Codes:

Eye Damage Cat. 1

Aspiration Toxicity Cat. 1

Specific Target Organ Toxicity – Repeated Exposure Cat. 2

Aquatic Acute Cat. 1

Aquatic Chronic Cat. 1

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Pictograms:



Hazard Statement:

H318: Causes serious eye damage.

H304: May be fatal if swallowed or enters airways.

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

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist or spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/eye protection/face protection.

P310: Immediately call a POISON CENTER or doctor/physician.

P314: Get medical advice/attention if you feel unwell.

P331: Do NOT induce vomiting.

P391: Collect spillage

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in

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accordance with the Hazardous Substances
(Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Colourless transparent liquid.

Ingredients

Ingredients	CAS #	Content %
Permethrin	52645-53-1	~10%
Aliphatic Non-Flam Solvent	64742-47-8	~11%
Pyriproxyfen	95737-68-1	~0.3%
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information:	In case of accident, or if you feel unwell, immediately seek medical advice, or call a POISON CENTER (show the label where possible).
Ingestion:	May be fatal if swallowed. Rinse mouth. Do NOT induce vomiting. If you are feeling unwell, immediately seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Eye Contact:	Can cause serious eye damage. Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice, or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Skin Contact:	Unlikely to cause skin irritation. Rinse skin with copious amounts of water and wash with soap and water. If skin irritation develops, seek medical advice.
Inhalation:	May be fatal if product enters airways. If breathing problems develop, seek immediate medical advice, or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Advice for Medical Doctors:	Treat symptomatically

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5. FIRE FIGHTING MEASURES

HAZCHEM code:	22
Specific Hazards:	None. Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Use extinguishing media appropriate to the surrounding conditions.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
Hazardous Products of Combustion:	Permethrin emits toxic fumes of hydrogen chloride. Pyriproxyfen emits toxic fumes of nitrogen oxides and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin and eye. Avoid inhaling mist/spray. When handling product in bulk, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this
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product. Wash hands and face before eating, drinking, or smoking. Clean equipment after use. Do not contaminate drains, sewers, or waterways.

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children, and animals.

Minimum shelf life: 2 years.

Protection against fire and explosion:

Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

See 'Exposure Standards' below (Workplace Exposure Standards and Biological Exposure Edition 13, 2022)

Engineering Controls:

No special requirements when used as recommended.

Hand protection:

If repeated or prolonged contact wear chemical resistant gloves.

Eye protection:

Wear safety goggles or full-face shield while mixing or spraying to avoid splashes

Body protection:

Skin protection not ordinarily required beyond standard issue work clothes.

Respiratory Protection:

Wear a respirator or disposable masks while mixing and spraying.

General safety and hygiene measures:

Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes, and clothing.

Environmental Exposure Controls:

Minimise release to the environment.

Exposure Standards:

		TWA		STEL	
Substance	Cas #	ppm	mg/m ³	ppm	mg/m ³
Propane-1,2-diol, Vapour, and particulates	[57-55-6]	150	474		

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Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Application method restriction	77A	This substance must be applied using ground-based application methods only. Ground based methods of applying pesticides include, But are not limited to, application by ground boom, airblast or knapsack, and do not include aerial application methods.
Active ingredient or component specification	77A	The following limits are set for toxicologically relevant impurities in the active ingredient pyriproxyfen used to manufacture this substance: - toluene: 5g/kg maximum.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless transparent liquid.
Odour:	Mild Odour
Odour Threshold:	No data
pH Value:	4.0 - 5.0
Melting/freezing point:	No data (Permethrin: 34°C; Pyriproxyfen: 46.0°C)
Boiling point (range):	No data (Permethrin: >290°C at 760 mm Hg)
Flash Point:	>100°C
Flammability:	Not applicable
Explosive limits:	Not applicable
Vapour pressure:	No data (Permethrin: 2.18e-08 mmHg)
Vapour density:	No data
Relative density:	0.968 Kg/L
Solubility:	Miscible with water
Partition coefficient:	No data
Auto-ignition temperature:	Not applicable

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Decomposition temperature: No data

Viscosity: No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity: Stable under normal conditions of use. Not explosive or oxidising.

Incompatibility or conditions to be avoid: Avoid strong oxidising agents. Avoid heat sparks and open flames.

Corrosive Properties: Not corrosive to metals.

Thermal Decomposition: Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Class: Eye Dam. 1; Asp. Tox. 1; STOT RE 2

Acute Toxicity: Permethrin

Acute oral LD₅₀ > 430 mg/kg (rat).

Acute dermal LD₅₀ > 2000 mg/kg (rabbit)

Pyriproxyfen

Acute oral LD₅₀ > 5000 mg/kg (rat).

Acute dermal LD₅₀ = 2000 mg/kg (rat)

Aspiration hazard May cause irritation on inhalation of mist or vapour.
May be fatal if swallowed or enters airways.

Skin corrosion/irritation: Unlikely to cause skin corrosion/irritation.

Serious eye damage/irritation: May cause serious eye damage.

Respiratory or skin sensitisation: Unlikely to cause skin sensitisation and/or contact dermatitis

Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

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Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific organ toxicity – single exposure:	No data available
Specific organ toxicity – repeated exposure:	Blood and haemopoietic system and liver.
Narcotic effects:	No data available.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated	

12. ECOTOXICITY INFORMATION

Ecological information of substance:	Very toxic to aquatic life with long lasting effects. Do not contaminate waterways, sewers, or drains when using product or packaging. Permethrin Rainbow trout, LC ₅₀ (96 hr) = 0.0125 mg/L Water flea, EC ₅₀ (48 hr) = 0.0006mg/L Pyriproxyfen Rainbow trout, LC ₅₀ (96 hr) >0.27 mg/L Water flea, EC ₅₀ (48 hr) = 0.4mg/L
Bioaccumulation:	Permethrin has the potential to bioaccumulate.
Soil Toxicity:	No soil toxicity. Permethrin: Half-life 2-50 days

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.
Container Disposal:	Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations. DO NOT reuse containers. Do NOT burn.

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Methods of disposal to avoid

Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number:	3082
Dangerous Goods Class:	Class 9 (land and marine)
Hazchem Code:	27
Packaging Group:	III
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S
Segregation:	Food and Feed

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101143
GHS Classifications:	Eye Dam.1; Asp. Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1
HSNO Controls:	Refer to HSR101143
Additional Controls:	Stores containing >100 litres should have signage, secondary containment, and emergency response plans.

16. OTHER INFORMATION

SDS date of preparation:	05 / 10 / 2022
SDS date of revision:	05 / 10 / 2027

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

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The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR:	European agreement concerning the international carriage of Dangerous goods by Road
CLP:	Classification Labelling and Packaging
EC:	European Commission
EU:	European Union
GHS:	Global Harmonized System
H Phrase:	Hazard Phrase
HSNO:	Hazardous Substances and New Organisms (1996) Act
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IMDG:	International Maritime Dangerous Goods
P Phrase:	Precautionary Phrase
RID:	Regulations concerning the International carriage of Dangerous good by rail
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

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