

# SAFETY DATA SHEET

Product Name: Permethrin + IGR Commercial

Issue Date: 12/01/2018

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## 1. PRODUCT AND COMPANY INFORMATION

<b>Product Name:</b>	<b>Permethrin + IGR Commercial</b>
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:	<a href="mailto:info@kiwicare.co.nz">info@kiwicare.co.nz</a>
Website:	<a href="http://www.kiwicare.co.nz">www.kiwicare.co.nz</a>
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

## 2. HAZARDS IDENTIFICATION

Dangerous Goods:	Class 9; Signal word = Danger
Packaging Group:	III
Hazardous Substance (HSNO) Codes:	6.1E Minimal oral toxicity and aspiration 6.3B Mild skin irritant 8.3A Eye corrosive 6.9B Harmful to human target organs (oral & inhalation; single & repeated exposure) 9.1A Very ecotoxic in the aquatic environment 9.3C Harmful to terrestrial vertebrates 9.4A Very ecotoxic to terrestrial invertebrates

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## 2. HAZARDS IDENTIFICATION

### Hazard Statement:

H303: May be harmful if swallowed.

H305: May be harmful if swallowed and enters airways.

H316: Causes mild skin irritation.

H318: Causes serious eye damage.

H371: May cause damage to organs.

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.

H433: Harmful to terrestrial vertebrates.

H441: Very toxic 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 vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/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.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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## 2. HAZARDS IDENTIFICATION

P332+P313: If skin irritation occurs: Get medical advice/ attention.

P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.1E (oral)	Not applicable for the UN	No pictogram	Warning	H303	P102 <sup>b</sup>	P101 <sup>b</sup>	No storage statements	P501
6.1E <sup>1</sup> (aspiration hazard)	Not applicable for the UN RTDG Model Regulations		Warning	H305	P102 <sup>b</sup> P103 <sup>b</sup>	P101 <sup>b</sup> P301 + P310 P331	P405	P501
6.3B	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H316	P103 <sup>b</sup>	P332 + P313	No storage statements	P501
8.3A	Not applicable for the UN RTDG Model Regulations		Danger	H318	P102 <sup>b</sup> P103 <sup>b</sup> P280	P101 <sup>b</sup> P305 + P351 + P338 P310	No storage statements	P501
6.9B (Single exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H371	P103 <sup>b</sup> P260 P264 P270	P309 + P311	P405	P501
6.9B (Repeated exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 <sup>b</sup> P260	P314	No storage statements	P501




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9.1A			Warning	H400/H410 <sup>m</sup>	P103 <sup>b</sup> P273	P391	No storage statements	P501
9.3C	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H433	P103 <sup>b</sup> P273	No response statements	No storage statements	P501
9.4A	Not applicable for the UN RTDG Model Regulations		Warning	H441	P103 <sup>b</sup> P273	P391	No storage statements	P501

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: To control insects

Appearance: Colourless transparent solution

#### Ingredients

Ingredients	CAS #	Content % w/w or w/v
Permethrin	52645-53-1	10 % w/w
Pyriproxyfen	95737-68-1	0.3 % w/w
Other ingredients	N/A	89.7 % w/w

### 4. FIRST AID MEASURES

Ingestion: May be harmful if swallowed, this product may cause gastrointestinal tract irritation. If ingestion occurs, do not induce vomiting. To dilute the ingested product, give affected person one or two glasses of water or milk. Never give an unconscious person anything by mouth. Place in recovery position. Obtain medical advice immediately.

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## 4. FIRST AID MEASURES

Eye Contact:	Potentially cause eye damage. Check for and remove any contact lenses if easy to do so. Do not use an eye ointment. Flush eyes with running water for 15 minutes holding eyelids open if necessary. Seek medical advice.
Skin Contact:	Potentially cause mild skin irritancy. Potentially cause paraesthesia. Avoid contact with skin. If skin contact occurs wash off with soap and water. If skin irritation occurs get medical advice.
Inhalation:	May cause organ toxicity through prolonged exposure via inhalation. If ill effects persist call a doctor. Seek immediate medical attention.
Notes to Physician:	None allocated.

## 5. FIRE FIGHTING MEASURES

Specific Hazards:	Clear fire area of all non-emergency personnel.
Suitable Extinguishing Media:	Water spray, foam, CO <sub>2</sub> , dry chemical or any class B extinguishing agent.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. 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.

## 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
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## 6. ACCIDENTAL RELEASE MEASURES

Minor Spills (Up to 20 L):	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 L):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and national regulations.  Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

## 7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Keep away from sources of ignition – No smoking, eating or drinking while handling this product. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Read the label before use.
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. Do not allow product to get wet in storage.
Protection against fire and explosion:	Keep away from heat sources even though the product is not combustible. The product is not explosive. Keep away from oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 <sup>th</sup> edition)
Engineering Controls:	General ventilation. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
Hand protection:	Suitable chemical resistant gloves are recommended for applicants.
Eye protection:	Wear safety glasses or full face shield if splashes are likely to occur.
Body protection:	Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots. Skin protection not ordinarily required beyond standard issue work clothes. It is good practice to wear chemical resistant gloves.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.
Environmental Exposure Controls:	Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

A Substance	CAS #	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

None

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Additional New Zealand EPA controls:

Code	Section of the Act	Control
Water	77A	This substance must not be applied into or onto water
Application Method		This substance must be applied using ground-based methods only
Restriction on impurity		The following limits are set for toxicologically relevant impurities in the active ingredient pyriproxyfen used to manufacture this substance: <ul style="list-style-type: none"> <li>- toluene: 5 g/kg maximum</li> </ul>
Stationary Container Systems	Schedule 8	<p><b>SCHEDULE 8 OF THE HAZARDOUS SUBSTANCES (DANGEROUS GOODS AND SCHEDULED TOXIC SUBSTANCES) TRANSFER NOTICE 2004</b></p> <p>This schedule prescribes the controls for stationary container systems. The requirements of this schedule are detailed in the consolidated version of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004, available from <a href="http://www.epa.govt.nz/Publications/Transfer-Notice-35-2004.pdf">http://www.epa.govt.nz/Publications/Transfer-Notice-35-2004.pdf</a></p> <p>The following clause replaces Clause 1 of Schedule 8 of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004:</p> <p><i>This Schedule applies to every stationary container system that contains, or is intended to contain the substance</i></p>
Label requirements	77A	<p>The substance label must include the following statement, or words to the same effect:</p> <ul style="list-style-type: none"> <li>• "Read label before use"</li> <li>• "This substance has the potential to cause serious eye damage, mild skin irritation and target organ toxicity by the oral and inhalation routes"</li> <li>• "Keep out of reach of children"</li> <li>• "Do not breath in the substance"</li> <li>• "Eye and face protection should be worn when using the substance."</li> <li>• "Do not eat, drink or smoke while using the substance"</li> <li>• "This substance must not be applied when bees are foraging in the areas where it is to be applied"</li> <li>• "This substance must not be applied onto bees, bee hives or bee nests"</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Colourless transparent solution
Solubility:	Soluble in water.
Specific Gravity:	0.968 Kg/L
Boiling Point:	≥ 100 °C

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Viscosity:	Low.
Flash Point:	> 100 °C
pH Value:	4.0 – 5.0 (4% solution)
Chemical Family:	Pyrethroid + Pyridine derivative
Exposure Standards (TLV-TW):	Refer to section 8
Engineering Controls:	Refer to section 8

## 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 flame.
Corrosive Properties:	Potentially corrosive to eyes.
Thermal Decomposition:	The formation of toxic/irritant gases/vapours may occur if heated.

## 11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredients:

Permethrin (52645-53-1): 6.1C (oral); 6.3B; 6.4A; 6.9B (oral & inhalation); 9.1A; 9.3B; 9.4A.

Pyriproxyfen (95737-68-1): 9.1A; 9.4A.

For the substance (final product):

Skin corrosion/irritation:	HSNO classification 6.3B; mild skin irritancy.
Serious eye damage/eye irritation:	HSNO 8.3A or GHS H318; cause eye damage.
Respiratory or skin sensitization:	Not a sensitizer.

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## 11. TOXICOLOGICAL INFORMATION

Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductivity:	Not reproductive.
Acute Toxicity:	2000 < LD <sub>50</sub> ≤ 5000 mg/kg (rat)
Chronic Toxicity:	May cause organ toxicity through prolonged or repeated exposure.

## 12. ECOTOXICITY INFORMATION

Ecological information of substance:	LC <sub>50</sub> ≤ 1.0 ppm. HSNO 9.1A or GHS H400/410; Very ecotoxic in the aquatic environment. HSNO 9.3C or GHS H433; Ecotoxic to terrestrial vertebrates. LD <sub>50</sub> < 2 µg / terrestrial invertebrate HSNO 9.4A or GHS H441.
Rapid degrade & Bioaccumulative:	Permethrin and Pyriproxyfen are bioaccumulative
Soil Toxicity:	No soil toxicity
Permethrin (52645-53-1):	9.1A; 9.3B; 9.4A.
Pyriproxyfen (95737-68-1):	9.1A; 9.4A.

The substance triggers HSNO class 9.1A, 9.3C and 9.4A classifications. In addition, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer and other appropriate environmental controls. Therefore it is unlikely to cause any risk to the environment or other non-target species.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	In the case of a substance that is in compliance with a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.
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## 13. DISPOSAL CONSIDERATIONS

Container Disposal: Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.

## 14. TRANSPORT INFORMATION

### Road, Rail, Marine and Air

UN Number: 3082

Dangerous Goods Class: 9

Hazchem Code: 3Z

Packaging Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid N.O.S. – Permethrin, Pyriproxyfen.

Segregation: None allocated

## 15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR101143

HSNO Classifications: 6.1E Minimal oral toxicity and aspiration  
6.3B Mild skin irritant  
8.3A Eye corrosive  
6.9B Harmful to human target organs (oral & inhalation; single & repeated exposure)  
9.1A Very ecotoxic in the aquatic environment  
9.3C Harmful to terrestrial vertebrates  
9.4A Very ecotoxic to terrestrial invertebrates

HSNO Controls: Refer to HSR101143

HSNO Approved codes of Practice: Refer to HSR101143

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To avoid risks to man and the environment, comply with the instructions for use.

This information should be considered when making any hazard assessment.

**Classification and labelling according to Regulation:**

(EC) No 1272/2008 [EU-GHS/CLP]

## 16. OTHER INFORMATION

SDS date of preparation:	02 / 10 / 2017
SDS date of revision:	02 / 10 / 2022
Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

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## 16. OTHER INFORMATION

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](http://www.kiwicare.co.nz), or contact the supplier.

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

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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