

SAFETY DATA SHEET

KIWICARE®

Product Name: *No Bed Bugs Total Protection Spray*

Print/View Date: 3/10/2022

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	No Bed Bugs Total Protection Spray
Recommended uses:	Insecticide – Ready to use
Restrictions on Use/Supply:	This product 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

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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
STOT Rep.Exp.2	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 ^b P260	P314	No storage statements	P501
Aquatic Acute 1			Warning	H400	P103 ^b P273	P391	No storage statements	P501
Aquatic Chronic 1			Warning	H410	P103 ^b P273	P391	No storage statements	P501

Signal word: **WARNING**

Dangerous Goods: **Dangerous Goods (Class 9)**

Packaging Group: **III**

Hazardous Substance (GHS) Codes: **Specific Target Organ Toxicity- Repeated Exposure Cat. 2**
Aquatic Acute Cat. 1
Aquatic Chronic Cat.1

Pictograms:



Hazard Statement:

H373: Causes damage to blood and hematopoietic system through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long term effects

Hazardous to terrestrial invertebrates.

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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/spray.

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

P273: Avoid release to the aquatic environment.

P391: Collect spillage.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Low viscosity transparent liquid

Ingredients

Ingredients	CAS #	Content %
Permethrin	52645-53-1	0.2-0.4%
Pyriproxyfen	95737-68-1	~0.1%
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: Drink one or two glasses of milk or water. If you feel unwell seek medical advice and have the product label at hand.

Eye Contact: Unlikely to cause eye irritation. Rinse opened eye for several minutes under running water. If irritation develops, seek medical and have product label at hand.

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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:	Unlikely to present an inhalation hazard. If breathing problems develop, seek medical advice, and have the product label at hand.
Advice for Medical Doctors:	Treat symptomatically

5. FIRE FIGHTING MEASURES

HAZCHEM code:	2X
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:	No data for the mixture Permethrin emits fumes of hydrogen chloride (HCl) Pyriproxyfen emits toxic fumes or 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):	Contain spill and collect. Do not allow the product or washings to enter waterways or sewers.
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect using suitable absorbent like sand or soil. 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

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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 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 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. Do not allow product to get wet in storage. 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:	No exposure standards apply for this product.
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	If repeated or prolonged contact wear chemical resistant gloves.
Eye protection:	If there is significant potential for contact, wear dust goggles.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.

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Respiratory Protection: Use suitable respiratory protection (respirator/ disposable masks)

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.

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
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.
Application Method Restriction	77A	This substance must be applied using ground-based methods only. Ground based methods of applying pesticides include, but are not limited to, application using ground boom, airblast or knapsack and do not include aerial application methods.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Low viscosity translucent liquid.

Odour: Mild Odour

Odour Threshold: No data

pH Value: 5.0-6.3 (0.4% permethrin)

Melting/freezing point: ~0°C

Boiling point (range): ~100°C

Flash Point: >100 °C

Flammability: Not applicable

Explosive limits: Not applicable

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Vapour pressure:	No data (Permethrin: 2.18e-08 mmHg)
Vapour density:	No data
Relative density:	No data (Permethrin 1.19-1.27 at 20°C)
Solubility:	Soluble
Partition coefficient:	No data
Auto-ignition temperature:	Not applicable
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 avoided:	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:	STOT RE 2
Acute Toxicity:	Permethrin Acute oral LD ₅₀ > 430 mg/kg (rat). Acute dermal LD ₅₀ >2000 mg/kg (rabbit)
	Pyriproxyfen Acute oral LD ₅₀ > 5000 mg/kg (rat). Acute dermal LD ₅₀ =2000 mg/kg (rat)
Aspiration hazard	Unlikely to cause an aspiration hazard

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Skin corrosion/irritation:	Unlikely to cause skin corrosion/irritation.
Serious eye damage/irritation:	Unlikely to cause eye corrosion/irritation.
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.
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:	Repeated or prolonged exposure can be harmful to blood and hematopoietic system.
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:	Toxic to aquatic life with long-term and short-term 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) = 0.0006 mg/L Pyriproxyfen Rainbow trout, LC ₅₀ (96 hr) > 0.27 mg/L Water flea, EC ₅₀ (48 hr) = 0.4 mg/L
Bioaccumulation:	Permethrin has the potential to bioaccumulate.
Soil Toxicity:	Half-life 20-50 days

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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.
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
Hazchem Code:	2X
Packaging Group:	III
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid N.O.S.
Segregation:	Sperate from food/feed.

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101156
GHS Classifications:	STOT RE.2; Aquatic Acute 1; Aquatic Chronic.1
HSNO Controls:	Refer to HSR101156
Additional Controls:	Stores containing more than 100 litres require secondary containment, signage, and emergency response plans.

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16. OTHER INFORMATION

SDS date of preparation: 28 / 09 / 2022

SDS date of revision: 28 / 09 / 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.

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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