

SAFETY DATA SHEET

Product Name: Insect Guard Mosquito Insect Repellent



Issue Date: 20/08/2019

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	Insect Guard Mosquito Insect Repellent
Relevant identified uses:	Mosquitos repellent containing 1.5% Prallethrin
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)

2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.1E ^a (aspiration hazard)	Not applicable for the UN RTDG Model Regulations		Danger	H304	P102 ^b P103 ^b	P101 ^b P301 + P310 P331	P405	P501
6.9B (Repeated exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 ^b P260	P314	No storage statements	P501

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9.1A			Warning	H400/H410 ^m	P103 ^b P273	P391	No storage statements	P501
9.4A	Not applicable for the UN RTDG Model Regulations		Warning	H441	P103 ^b P273	P391	No storage statements	P501

Dangerous Goods:

Class 9; signal word = Danger

Packaging Group:

III

Hazardous Substance (HSNO) Codes:

6.1E (aspiration) May be fatal if swallowed and enters airways.

6.9B Harmful to human target organs (oral repeated exposure)

9.1A (Very ecotoxic to the aquatic environment)

9.4A (Very ecotoxic to terrestrial invertebrate)

Hazard Statements:

H304: May be fatal if swallowed and enters airways.

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

H400 / H410: Very toxic to aquatic life / Very toxic to aquatic life with long lasting effects.

H441: Very toxic to terrestrial invertebrate.

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.

P273: Avoid release to the environment.

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

P331: Do NOT induce vomiting.

P391: Collect spillage.

P405: Store locked up.

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

P501: Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: To repel mosquitos

Appearance: Liquid with characteristic odour

Ingredients

Ingredients	CAS #	Content %
Prallethrin	23031-36-9	1.5 % w/w
Iso-paraffin (C11 - C16,isoalkanes, <2% aromatics)	64742-47-8	97-99 % w/w

4. FIRST AID MEASURES

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

Ingestion: Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Keep the person calm and comfortable. Rinse mouth. Seek medical advice.

Eye Contact: Immediately flush with plenty of water. If symptoms persist, seek medical advice.

Skin Contact: Remove contaminated clothing and wash with plenty of soap and water. Launder contaminated clothing before re-use. Seek medical advice.

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4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice.
Advice for Medical Doctors:	Synthetic pyrethroids can produce paraesthesia. There is no specific antidote, treatment must be symptomatic. Keep the patient warm and calm. Consult standard literature for Hydrocarbon poison. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.

5. FIRE FIGHTING MEASURES

Specific Hazards:	May give off toxic fumes (carbon monoxide and carbon dioxide) if heated to decomposition. Do not breathe fumes. Wear self-contained breathing apparatus.
Suitable Extinguishing Media:	Dry chemical, Foam, carbon dioxide or water spray. Water jet which might spread flames.
Fire Fighting Advice:	Wear full protective equipment, including breathing apparatus. Ensure respiratory equipment is available. Surrounding containers should be cooled using a fine water spray. All run-off must be contained.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear personal protective equipment as specified in Section 8. Do not allow material to enter sewers or bodies of water.
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing. Remove ignition sources and need to evacuate the danger area or to consult an expert. When dealing with a spillage do not eat, drink or smoke. Wash thoroughly after handling.
Methods and material of containment and cleaning up:	If damage occurs to aerosol can: Contain spillage, soak up with non-combustible absorbent material, (e.g. and, earth, diatomaceous earth, vermiculite etc.) and transfer to a container for disposal according to local/national regulations. Never return contaminated spilled liquid to original container. Use only non-sparking equipment. Dike large spills. Clean residue from spill site.
Refer to other Sections	Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:	DO NOT USE OR STORE near flame, sparks or hot surfaces. Keep containers in cool and well-ventilated place. Do not store long term in direct sunlight. Keep out of the reach of children and pet.
Conditions for safe Storage including incompatibilities:	Keep out of reach of children and animals. Store in the closed, original container in a dry, cool, and well ventilated area, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 10 th edition)
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use only in well ventilated areas. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
Hand protection:	Normally none needed.
Eye protection:	Normally none needed.
Body protection:	Normally none needed.
General safety and hygiene measures:	Wash hands after use. Launder clothes, gloves and eyewear before reuse. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Environmental Exposure Controls:	Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³

None

Additional New Zealand EPA controls:

HSNO Additional Controls and Modifications to Controls

Control code	HSNO Act	Control
Label	Section 77 variation to Labelling Notice	The substance label must include the following statement, or words to the same effect: "Do not allow spray to get into or onto aquarium water".
Max impurity	Section 77A	The following limits are set for toxicologically relevant impurities in the solvent used to manufacture this substance: aromatic hydrocarbons (toluene, benzene, xylene and naphthalene) must not be present at more than 0.01% in the solvent.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Liquid with characteristic odour
Solubility:	Insoluble
Specific Gravity:	0.8 (20 °C)
Boiling Point:	No data available
Viscosity:	No data available
Flash Point:	> 93 °C
pH Value:	No data available
Acidity(Calculated as HCl):	<0.2%
Octanol/water partition coefficient:	No data available
Vapour pressure & density:	No data available
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.
Incompatibility or conditions to be avoid:	Strong oxidizing agents. Do not mix with bleach or any other household cleaners. Strong bases.
Conditions to avoid; possibility of hazardous reactions:	Heat, naked flames or sparks. If accidental missing occurs and toxic gas is formed, exit area immediately. Do not return till well ventilated.
Thermal Decomposition:	When handed and stored appropriately, no dangerous decomposition products are known. Emits toxic fumes under fire conditions.

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11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredients:

Prallethrin (23031-36-9): 6.1B (inhalation), 6.1D (oral); 6.9B (oral); 9.1A; 9.3B; 9.4A. LD₅₀ (rat) = 640 mg/kg; LC₅₀ (rat 4hr) = 0.29 mg/L

For the substance (final product): 6.1E (aspiration); 6.9B (oral); 9.1A; 9.4A.

Skin corrosion/irritation: Should not cause irritation.

Serious eye damage/eye irritation: It is unlikely to cause eye damage or irritation.

Respiratory or skin sensitization: Unlikely to cause an allergic skin reaction.

Germ cell mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductivity: Not reproductive.

Acute Toxicity: Acute oral LD₅₀ > 5000 mg/kg (calculated)

Acute effect: May be fatal if swallowed and enters airways.

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

12. ECOTOXICITY INFORMATION

Ecological information of substance: HSNO 9.1A or GHS H400/410; Very ecotoxic in the aquatic environment. HSNO 9.4A or GHS H441: Very ecotoxic to terrestrial invertebrate.

Bioaccumulative & rapid degradable: Prallethrin is bioaccumulative; not degradable.

Soil toxicity: No soil toxicity.

The substance triggers HSNO class 9.1A, 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 controls. Therefore it is unlikely to cause any risk to the environment.

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13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	Spilled liquid should be treated as contaminated oil and disposal should be in accordance with the Hazardous Substances (Disposal) Notice 2017.
Container Disposal:	Empty containers can be recycled 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. – Prallethrin.
Segregation:	Not applicable for class 9

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101334
HSNO Classifications:	6.1E (aspiration) May be fatal if swallowed and enters airways. 6.9B Harmful to human target organs (oral repeated exposure) 9.1A (Very ecotoxic to the aquatic environment) 9.4A (Very ecotoxic to terrestrial invertebrate)
HSNO Controls:	Refer to HSR101334
HSNO Approved codes of Practice:	Refer to HSR101334

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16. OTHER INFORMATION

SDS date of preparation:	30 / 07 / 2019
SDS date of revision:	30 / 07 / 2024
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, 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

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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