

# SAFETY DATA SHEET



Product Name: Insect Guard Automatic Natural

Issue Date: 21/09/2018

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## 1. PRODUCT AND COMPANY INFORMATION

<b>Product Name:</b>	<b>Insect Guard Automatic Natural</b>
Recommended use:	Household insecticide
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 2 Flammable aerosol
Packaging Group:	III, signal word = Danger
Hazardous Substance (HSNO) Codes:	2.1.2A, 6.3B, 6.4A; 6.5A, 6.5B, 6.9B, 9.1A, 9.4B
Hazard Statements:	H223: Flammable aerosol. H316: May cause mild skin irritancy. H319: May cause eye irritancy. H334: May cause allergy if inhaled. H317: May cause an allergic skin reaction. H373: May cause target organ toxicity via repeated exposure. H400/410: Highly ecotoxic to the aquatic environment. H442: Toxic to terrestrial invertebrates.

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## 2. HAZARDS IDENTIFICATION

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.

P210: Keep away from heat.

P211: Do not spray on an open flame

P251: Pressurized container: Do not burn after use.

P260: Do not breathe spray.

P261: Avoid breathing spray.

P264: Wash thoroughly after handling.

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

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear full PPEs.

P285: In case of inadequate ventilation wear respiratory protection.

P273: Avoid release to the environment.

P321: Specific treatment: see label.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P332+313: If skin irritation occurs: Get medical advice/ attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.

P342+311: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P337+313: If eye irritation persists: Get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## 2. HAZARDS IDENTIFICATION

P501: Achievable methods for the disposal of the substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
2.1.2A <sup>i</sup>			Warning	H223	P103 <sup>b</sup> P210 P211 P251	No response statements	P410 + P412	No disposal statements
6.3B	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H316	P103 <sup>b</sup>	P332 + P313	No storage statements	P501
6.4A <sup>j</sup>	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 <sup>b</sup> P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501
6.5A	Not applicable for the UN RTDG Model Regulations		Danger	H334	P103 <sup>b</sup> P261 P285	P304 + P341 P342 + P311	No storage statements	P501
6.5B	Not applicable for the UN RTDG Model Regulations		Warning	H317	P103 <sup>b</sup> P261 P272 P280	P302 + P352 P333 + P313 P321 P363	No storage statements	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
9.1A			Warning	H400/H410 <sup>m</sup>	P103 <sup>b</sup> P273	P391	No storage statements	P501
9.4B	Not applicable for the UN RTDG Model Regulations		No Signal Word	H442	P103 <sup>b</sup> P273	P391	No storage statements	P501

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Household insecticide

Appearance: Aerosol vapour

### Ingredients

Ingredients	CAS #	Content % w/w or w/v
Natural Pyrethrum	8003-34-7	<1 % w/w
Piperonyl Butoxide	51-13-6	< 5 % w/w
Hydrocarbons	64742-47-8	30 – 40 % w/w
Propane / Butane	74-98-6 and 106-97-8	60 – 70 % w/w

## 4. FIRST AID MEASURES

**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.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice.

**Most important symptoms and effects, both acute and delayed:** Synthetic pyrethroids can produce paraesthesia.

**Indication of any immediate medical attention and special treatment needed:** There is no specific antidote, treatment must be symptomatic. Keep the patient warm and calm. Consult standard literature for Hydrocarbon poison.

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## 5. FIRE FIGHTING MEASURES

Specific Hazards:	May give off toxic fumes (CO <sub>2</sub> and CO) if heated to decomposition. Do not breathe fumes. Wear self-contained breathing apparatus. Aerosol product-Containers may rocket or explode in heat of fire. Do not allow run-off from fire-fighting to enter drains or water courses.
Suitable Extinguishing Media:	Dry chemical, Foam, carbon dioxide or water spray.
Unsuitable Extinguishing Media:	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.

## 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.
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.
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.

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## 6. ACCIDENTAL RELEASE MEASURES

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. Pressurized container. Do not pierce or burn, even after use.

Conditions for safe storage, including any 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.  
Do not store where food is prepared All aspects of storage, handling, use and record keeping must be in accordance with NZS 8409-2004 "Management of Agrichemicals" and local and regional council.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 9<sup>th</sup> edition)

Engineering Controls: Always work under a well-ventilated space. Follow procedures to avoid static discharges. Use only intrinsically safe communication equipment (e.g. do not use mobile phones and pagers). Use non-spark generating tools and flameproof (intrinsically safe) equipment.

Hand protection: Suitable chemical resistant gloves are recommended for applicants.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 and respirator. 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.

P	Substance	CAS #	TWA		STEL	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	Pyrethrum <small>(aer)</small>	[8003-34-7]		5		
	Propane	[74-98-6]	Simple asphyxiant - may present an explosion hazard			
	Butane	[106-97-8]	800	1,900		

## HSNO Additional Controls and Modifications to Controls

Control code	HSNO Act	Control
Maximum impurity	Section 77A	A maximum limit of 100 mg/kg is set for the toxicologically relevant impurity dihydrosafrole (CAS 94-58-6) in the synergist (piperonyl butoxide) used to manufacture this substance

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Aerosol / compressed gas; odourless
Solubility:	Insoluble

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

PH:	5.0 – 7.0
Specific Gravity:	~ 0.8 (20°C)
Boiling Point:	No data
Octanol / water partition coefficient:	No data
Vapour Pressure:	No data
Flash Point:	No data
Vapour density:	No data
Exposure Standards (TLV-TW):	See section 8
Engineering Controls:	See section 8

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal ambient conditions of storage and use. Avoid heat sources.
Incompatibility and possible hazardous reactions:	Strong oxidizing agents Do not mix with bleach or any other household cleaners. Strong bases. If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return till well ventilated.
Conditions to avoid:	Heat, naked flames or sparks.
Corrosive Properties:	Not corrosive
Hazardous Decomposition:	When handled and stored appropriately, no dangerous decomposition products are known. Emits toxic fumes under fire conditions.

## 11. TOXICOLOGICAL INFORMATION

### **Formulated substance :**

Physical hazard:	Flammable aerosol
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## 11. TOXICOLOGICAL INFORMATION

Acute Effects	Unlikely to cause any acute toxicity
Ingestion:	Due to high volatility of product, this is not likely to occur.
Eye Contact:	Spray / Vapour is may cause eye irritation.
Skin Contact:	Vaporising liquid or liquid contact can result in cold burns. May cause mild skin irritation and skin sensitisation. Potentially cause paraesthesia.
Inhalation:	Respiratory sensitiser. May cause light headedness, dizziness and drowsiness. Excessive exposure may cause unconsciousness or even death, due to asphyxiation (refers to vapour not liquid).
Long Term Effects:	May cause target organ toxicity via repeated exposure via oral intake
Acute Toxicity:	LD <sub>50</sub> > 5000 ppm
Chronic Toxicity:	May cause target organ toxicity via repeated exposure via oral intake

### **Active ingredient:**

Information on toxicological effects: **PIPERONYL BUTOXIDE PYRETHRINS**

Acute health effects

Acute toxicity, oral	LD <sub>50</sub> (rat, mg/kg) >7500
Acute toxicity, dermal	LD <sub>50</sub> (rat, mg/kg) >7950
	LD <sub>50</sub> (rabbit, mg/kg) >1880
Acute toxicity inhalation	LC <sub>50</sub> (rat, 4hr, mg/l) >5.9
Skin irritation	Rabbit: Non-irritant
Eye irritation	Rabbit: Non-irritant
Skin sensitization	Guinea pig: Non-sensitizing

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Chronic/carcinogenic health effects      Not carcinogenic.  
 Other toxicological information  
 Mutagenicity information                      Not mutagenic.  
 Teratology (birth defects) information      Not teratogenic.

## Information on toxicological effects: **PYRETHRINS**

### Acute health effects

Acute toxicity, oral                              LD<sub>50</sub>(rat, mg/kg) >2370 (female); 1030 (male)

Acute toxicity, dermal                            LD<sub>50</sub>(rat, mg/kg) >1500  
 LD<sub>50</sub>(rabbit, mg/kg) >5000

Acute toxicity inhalation                        LC<sub>50</sub>(rat, 4hr, mg/l) >3.4

Skin irritation                                      Rabbit: Slight-irritant

Eye irritation                                        Rabbit: Slight-irritant

Chronic/carcinogenic health effects        Not carcinogenic.

### Other toxicological information

Mutagenicity information                      Not mutagenic.

Teratology (birth defects) information      Not teratogenic.

## 12. ECOTOXICITY INFORMATION

Substance Environmental Effects:            9.1A: LC<sub>50</sub> ≤ 1 mg/L; 9.4B: 2 µg ≤ LD<sub>50</sub> < 11 µg / terrestrial invertebrate

Based on component ecotoxicity data the product is toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Avoid contaminating waterways and fishponds. Do not allow spray to drift onto aquatic environments. Keep children, pets, terrestrial vertebrates and any non-target terrestrial invertebrates like bees off treated areas. Contaminated absorbent and wash water should be disposed of according to local, national regulations.

Rapid degradable & Bioaccumulative:      No data.

Soil Toxicity:                                        No soil toxicity.

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

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## 13. DISPOSAL CONSIDERATIONS

Product Disposal:	This material, as supplied, is not a hazardous waste. Spilled liquid should be treated as contaminated oil and disposal should be in accordance with local, national or state regulations.
Container Disposal:	Empty containers can be recycled.

## 14. TRANSPORT INFORMATION

### Road, Rail; Marine and Air

UN Number:	UN1950
Dangerous Goods Class:	2.1.2A Flammable aerosol (IMDG: 2.1)
Hazchem Code:	2YE
Packaging Group:	III
Proper Shipping Name:	Aerosols flammable n.o.s.
Segregation:	The Segregation Groups have been reproduced in NZS 5433:2007
Marine pollutant:	H400 / 410; HSNO 9.1A



## 15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101271
HSNO Classifications:	2.1.2A, 6.3B, 6.4A; 6.5A, 6.5B, 6.9B, 9.1A, 9.4B
HSNO Controls:	See HSR101271 controls
HSNO Approved codes of Practice:	See HSR101271 controls

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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:	19 / 09 / 2018
SDS date of revision:	19 / 09 / 2023
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 manufacturer of the substance.

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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