

# SAFETY DATA SHEET

The KIWICARE logo is located in the top right corner. It consists of the word "KIWICARE" in a bold, white, sans-serif font, set against a black background that is shaped like a speech bubble pointing towards the bottom right.

Product Name: NO Bugs Super Bug Bomb

Issue Date: 25/07/2017

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## 1. PRODUCT AND COMPANY INFORMATION

<b>Product Name:</b>	<b>NO Bugs Super Bug Bomb</b>
Synonyms:	Flammable aerosol containing 10 g/kg permethrin plus 6 g/kg Pyriproxyfen.
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	
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, 6.5A, 6.5B, 6.9B, 9.1A, 9.4A
Hazard Statements:	H223: Flammable aerosol. H334: May cause allergy if inhaled. H317: May cause an allergic skin reaction. H373: May cause damage to organs. H400/410: Very toxic to aquatic life. H441: Very toxic to terrestrial invertebrates.

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Kiwicare Ltd, PO Box 15-050, Christchurch 8643, New Zealand. Ph +64 3 389 0778. [www.kiwicare.co.nz](http://www.kiwicare.co.nz).

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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.

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.

P314: Get medical advice if you feel unwell.

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.

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.

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.

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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'			Warning	H223	P103 <sup>b</sup> P210 P211 P251	No response statements	P410 + P412	No disposal statements
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
9.4A	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: Household insecticide

Appearance: Vapour

### Ingredients

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Content % w/w or w/v
Liquefied petroleum gas (LPG)	68476-85-7	>980 g/kg
Permethrin	52645-53-1	10 g/kg
Pyriproxyfen	95737-68-1	6 g/kg

## 4. FIRST AID MEASURES

Ingestion:	Due to high volatility of product, this is not likely to occur. If ingestion occurs, do not induce vomiting. Vomiting after ingestion may cause aspiration of the hydrocarbon solvents into the lungs that may result in fatal pulmonary oedema. 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.
Eye Contact:	Vapour is unlikely to irritate eyes causing redness, watering and itching. Check for and remove any contact lenses if easy to do so. Flush eyes with clean running water for 15 minutes. Do not use eye ointment.
Skin Contact:	Unlikely to cause irritation. If result in initial stinging, burning tingling or a rash. Wash affected area with soap and water. Remove and wash any contaminated clothing and wash skin. May induce an allergic response in susceptible individuals. These skin sensations are reversible and usually subside within 12 hours.

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## 4. FIRST AID MEASURES

Inhalation:	Inhalation and over exposure of hydrocarbon solvent vapours may cause dizziness; disturbances in vision such as squinting and drowsiness. Can cause irritation of upper respiratory tract and mucous membrane irritation. May cause headaches, irregular and rattling breathing and ataxia. Remove patient to fresh air. If ill effects persist call a doctor. Seek immediate medical attention.
Notes to Physician:	None allocated.

## 5. FIRE FIGHTING MEASURES

Specific Hazards:	Flammable aerosol containing liquefied petroleum gas (LPG).
Suitable Extinguishing Media:	Extinguishing media Water spray foam, dry chemical or Carbon Dioxide.
Fire Fighting Advice:	<p>Clear fire area of all non-emergency personnel. Follow procedures to avoid static discharges. Use only intrinsically safe communication equipment (e.g. do not use mobile phones and pagers).</p> <p>Use non-spark generating tools and flameproof (intrinsically safe) equipment.</p> <p>Fire fighters should wear a full set of protective clothing, including self-contained breathing apparatus.</p> <p>Toxic fumes may be emitted including but not limited to, Chlorine, Hydrogen Chloride, Oxides of Carbon and Aldehydes.</p>

## 6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up

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## 6. ACCIDENTAL RELEASE MEASURES

Minor Spills (Up to 10 L):

Eliminate all ignition sources and naked lights. Use non sparking equipment. Wear protective clothing. Clear area of unprotected personnel. Ventilate area.

Major Spills (more than 10 L):

Eliminate all ignition sources and naked lights. Use non sparking equipment. Wear protective clothing. Clear area of unprotected personnel.

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.

Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Pyrethroids are toxic to fish and other aquatic invertebrates. Should be disposed of according to local and national regulations.

Collect in an appropriate sealable container for disposal in an approved landfill or at an authorised installation.

## 7. HANDLING AND STORAGE

Handling:

Handle only as directed in instructions. Use this product only as directed.

Storage:

Keep out of reach of children. Keep in a cool place out of the sun. Avoid breathing fumes and contact with the skin.

Do not store where food is prepared.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	Workplace Exposure Standard for LPG 1,800 See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 <sup>th</sup> edition)
Engineering Controls:	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.

L	Substance	CAS #	TWA		STEL	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	LPG (Liquefied petroleum gas)	[68476-85-7]	1,000	1,800		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Liquefied petroleum gas in aerosol. Clear vapour on release. Faint kerosene odour.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility:	75 ml/L (propane), 88 mg/L (butane)
Specific Gravity:	~ 0.5
Boiling Point:	-42°C (propane), 0°C (butane)
Vapour Pressure:	593 kPa (LPG)
Flash Point:	-105°C (propane), -60°C (butane)
Auto-ignition Temperature:	468°C (propane), 430°C (butane)
Flammable Limits:	2-10%
Formula:	Mixture
Oxidising Agents:	Not an oxidant
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:	Can react violently with oxidising agents – Chlorine, pool chlorine or nitric acid.
Corrosive Properties:	Not corrosive
Thermal Decomposition:	None allocated

## 11. TOXICOLOGICAL INFORMATION

General:

Acute Effects	Oral LD <sub>50</sub> > 5000 ppm
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## 11. TOXICOLOGICAL INFORMATION

Ingestion:	Due to high volatility of product, this is not likely to occur.
Eye Contact:	Liquid / Vapour is unlikely but may cause irritation.
Skin Contact:	Vaporising liquid or liquid contact can result in cold burns.
Inhalation:	May cause light-headedness, dizziness and drowsiness. Excessive exposure may cause unconsciousness, due to asphyxiation (refers to vapour not liquid).
Long Term Effects:	May be harmful to human target organs.
Acute Toxicity:	LD50 oral rat – 1479-4672 mg/kg (permethrin) LD50 dermal rat - >2000 mg/kg (permethrin)
Chronic Toxicity:	Rats involved in a 2-year feeding study were given 100 mg/kg permethrin in their diet. These rats showed no signs of toxicity.

## 12. ECOTOXICITY INFORMATION

Environmental Effects:	Substance LC <sub>50</sub> < 1 mg/L Contains Pyrethroids which are toxic to fish and other aquatic invertebrates. 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.
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## 13. DISPOSAL CONSIDERATIONS

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## 13. DISPOSAL CONSIDERATIONS

Product Disposal:	Contact an LPG disposal company if disposal of LPG is required.
Container Disposal:	Do NOT incinerate LPG aerosols.

## 14. TRANSPORT INFORMATION

### Road and Rail

UN Number:	UN1950
Dangerous Goods Class:	2.1.2A Flammable aerosol
Hazchem Code:	2YE
Packaging Group:	III
Proper Shipping Name:	Aerosols flammable
Segregation:	The Segregation Groups have been reproduced in NZS 5433:2007

### Marine

UN Number:	UN1950
Class:	2.1.2A
Packaging Group:	III
Proper Shipping Name:	Aerosols flammable

### Air Transport

UN Number:	UN1950
Class:	2.1.2A
Packaging Group:	III
Proper Shipping Name:	Aerosols flammable

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## 15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR100742

HSNO Classifications: 2.1.2A (flammable aerosol), 6.5A (respiratory sensitizer), 6.5B (dermal sensitizer), 6.9B (harmful to human target organs or systems), 9.1A (very toxic to aquatic life), 9.4A (very toxic to terrestrial invertebrates).

HSNO Controls: See HSR100742 controls

HSNO Approved codes of Practice: See HSR100742 controls

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: 25 / 07 / 2017

SDS date of revision: 25 / 07 / 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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