

SAFETY DATA SHEET

Product Name: NO Borer Injector Aerosol

Issue Date: 26/06/2014

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	NO Borer Injector Aerosol
Synonyms:	
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:	
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

Dangerous Goods:	2.1
Packaging Group:	III

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2. HAZARDS IDENTIFICATION

Hazardous Substance (HSNO) Codes:

- 2.1.2A – Flammable aerosol
- 6.1D – Toxic to humans
- 6.3B – Mild skin irritant
- 6.4A - Eye irritant
- 6.5A – Respiratory sensitizer
- 6.5B - Dermal sensitizer
- 6.8B – Suspected reproductive/development toxicant
- 6.9B – Harmful to human target organs or systems
- 9.1A – Very toxic to aquatic life
- 9.2A – Very toxic to soil organisms
- 9.4C – Harmful to terrestrial invertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Insecticide

Appearance: LPG propelled liquid aerosol

Ingredients

Ingredients	CAS #	Content % w/w or w/v
Permethrin	52645-53-1	<1% w/w
Aliphatic hydrocarbon	64741-65-7	<75% w/w
Butane	106-97-8	<20% w/w
Propane	74-98-6	<20% w/w

4. FIRST AID MEASURES

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4. FIRST AID MEASURES

Ingestion:	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.
Eye Contact:	Causes eye irritation. 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:	Skin irritant. Avoid contact with skin. If skin contact occurs wash off with soap and water. If skin irritation occurs get medical advice.
Inhalation:	Can cause irritation of upper respiratory tract. 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.

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5. FIRE FIGHTING MEASURES

Fire Fighting Advice:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Equipment should be thoroughly cleaned after use. Read the entire document.

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).

Use non-spark generating tools and flameproof (intrinsically safe) equipment.

Fire fighters should wear a full set of protective clothing, including self-contained breathing apparatus.

Toxic fumes may be emitted including but not limited to, Chlorine, Hydrogen Chloride, Oxides of Carbon and Aldehydes.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up:

Minor Spills (Up to 20 L):

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

Floor may be slippery if wet. Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with Sand, Soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer.

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6. ACCIDENTAL RELEASE MEASURES

Major Spills (more than 20 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.

Floor may be slippery if wet. Eliminate all ignition sources and naked lights. Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with Sand, Soil or absorbent granules. 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

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.

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

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	Workplace Exposure Standard for LPG 1,800 mg/m ³ . Tolerable Exposure Limits (TELs), Acceptable Daily Exposures (ADEs), Potential Daily Exposures (PDEs) or Environmental Exposure Limits are not established.
Engineering Controls:	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.
Personal Protection:	Avoid all personal contact. Extreme over-exposure can result in dizziness, unconsciousness, coma and death. Wear approved mask, overalls, boots, gloves, safety goggles and safety glasses when using. Wash protective clothing before storage or reuse. Wash hands after use and before, using tobacco products, or toilet facilities. Always use with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Liquefied petroleum gas in aerosol. Clear vapour on release. Faint kerosene odour. Clear to light yellow liquid. Characteristic pungent odour.
Solubility:	75 ml/L (propane), 88 mg/L (butane)
Specific Gravity:	~0.5 (Liquid - ~1.0 @ 20°C)
Boiling Point:	None allocated.
Freezing Point:	None allocated.
Melting Point:	None allocated.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Vapour Pressure:	593 kPa (LPG)
Coefficient of Cubic Expansion:	None allocated.
Relative Vapour Density:	None allocated.
Decomposition Point:	None allocated.
Viscosity:	None allocated.
Flash Point:	-105°C (propane), -60°C (butane)
Electrostatic Generation:	None allocated.
Auto-ignition Temperature:	468°C (propane), 430°C (butane)
% Volatile by Volume:	None allocated.
Flammable Limits:	2-10%
pH Value:	None allocated
Evaporation Rate:	None allocated
Explosion Hazard:	None allocated
Formula:	None allocated
Molecular Weight:	None allocated
Chemical Family:	None allocated
Other:	None allocated
Oxidising Agents:	None allocated
Acids:	None allocated
Alkalis:	None allocated
Salt or Freshwater:	None allocated
Exposure Standards (TLV-TW):	None allocated
Engineering Controls:	None allocated

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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

11. TOXICOLOGICAL INFORMATION

General:

Acute Effects

Ingestion:	Oral LD50 >1500 mg/kg (rats) Dermal LD50 >10 g/kg (rabbits)
Eye Contact:	Eye irritant
Skin Contact:	Skin irritant
Inhalation:	Respiratory sensitizer. 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:	None known
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.

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12. ECOTOXICITY INFORMATION

Environmental Effects: Acute oral LD50 Mallard duck female >5,000 mg/kg
LC50 Rainbow trout (96 hours) 0.62 ug/l
Contains Pyrethroids which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, national regulations.

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: 2.1.2 Flammable aerosol
Hazchem Code: 2YE
Packaging Group: None required
Proper Shipping Name: Aerosols flammable
Segregation: The Segregation Groups have been reproduced in NZS 5433:2007

Marine

UN Number: UN1950
Class: 2.1.2
Packaging Group: Not required

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14. TRANSPORT INFORMATION

Proper Shipping Name: Aerosols flammable

Air Transport

UN Number: UN1950

Class: 2.1.2

Packaging Group: Not required

Proper Shipping Name: Aerosols flammable

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR000266

HSNO Classifications: 2.1.2A, 6.1D, 6.3B , 6.4A , 6.5A , 6.5B , 6.8B ,
6.9B (All), 6.9B (O), 9.1A (All), 9.1A (F), 9.2A ,
9.4C

HSNO Controls: See EPA website.

HSNO Approved codes of Practice: See EPA website.

16. OTHER INFORMATION

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 three years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier.

The information in this document should be made available to all who may handle the product

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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.

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