

Product Name: NO Borer Spray Injector

Issue Date:19/06/2018

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### 1. PRODUCT AND COMPANY INFORMATION

Product Name: NO Borer Spray Injector

Synonyms: Aerosol containing 1 g/kg permethrin

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: <u>info@kiwicare.co.nz</u>

Website: <u>www.kiwicare.co.nz</u>

**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, 6.3B, 6.4A, 6.5A, 6.5B, 6.8B, 6.9B, 9.1A,

9.2A, 9.4C.

Hazard Statements: H223: Flammable aerosol.

H316: Causes mild skin irritation.

H319: Causes eye irritation.

H334: May cause allergy if inhaled.

H317: May cause an allergic skin reaction.



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#### 2. HAZARDS IDENTIFICATION

H373: May cause damage to organs.

H361: Suspected of damaging fertility or the

unborn child

H400/410: Very toxic to aquatic life.

H443: Harmful to terrestrial invertebrates.

H421: Very ecotoxic to the soil environment

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.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions

have been read and understood.

P210: Keep away from heat.

P211: Do not spray on an open flame

P251: Pressurized container: Do not burn after

use

P281: Use personal protective equipment as

required.

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.

P314: Get medical advice if you feel unwell.

P321: Specific treatment: see label.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.



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#### 2. HAZARDS IDENTIFICATION

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

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

P332+P313: If skin irritation occurs: Get medical advice/ attention.

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

P308+313: IF exposed or concerned: Get medical advice/ attention.

P405: Store locked up.

P305+315+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P410+412: Protect from sunlight. Do no 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	Transport of Dangerous	GHS		Hazard	Precautionary statement codes			
Classification	Goods Pictogram	Pictogram	Signal word	statement code	Prevention	Response	Storage	Disposal
2.1.2A <sup>r</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	<b>(</b>	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	<b>(</b>	Warning	H317	P103 b P261 P272 P280	P302 + P352 P333 + P313 P321 P363	No storage statements	P501
6.8B	Not applicable for the UN RTDG Model Regulations		Warning	H361	P103 b P201 P202 P281	P308 + P313	P405	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 <sup>1</sup> /H410 <sup>m</sup>	P103 <sup>b</sup> P273	P391	No storage statements	P501
9.2A	Not applicable for the UN RTDG Model Regulations	*	Warning	H421	P103 <sup>b</sup> P273	P391	No storage statements	P501
9.4C	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H443	P103 <sup>b</sup> P273	No response statements	No storage statements	P501

## 3. COMPOSITION/INFORMATION ON INGREDIENTS



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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Insecticide

Appearance: Aerosol vapour

### 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

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: Mild skin irritant and may cause skin

sensitisation. 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.



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### 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: 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

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 propane and

butane. See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure

Indices 8th edition)

Engineering Controls: Always use with adequate ventilation. Use non-

spark generating tools and flameproof

(intrinsically safe) equipment. 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. Wear approved mask/respirator, 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.

Р		TWA		STEL		
Substance	CAS#	ppm	mg/m³	ppm	mg/m³	
Propane	[74-98-6]	Simple asphyxiant - may present an explosion hazard				
Butane	[106-97-8]	800	1,900			

### 9. PHYSICAL AND CHEMICAL PROPERTIES



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: 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: -42°C (propane), 0°C (butane)

Vapour Pressure: 593 kPa (LPG)

Flash Point: -105°C (propane), -60°C (butane); but substance

is >93 °C (EPA calculation)

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



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#### 11. TOXICOLOGICAL INFORMATION

### **Active ingredient:**

Permethrin (52645-53-1): 6.1C; 6.3B; 6.4A; 6.5A&B; 6.9B; 9.1A; 9.3B; 9.4A

**Substance:** 2.1.2A, 6.3B, 6.4A, 6.5A&B, 6.8B, 6.9B.

Acute Effects (Acute Toxicity) Oral  $LD_{50} > 5000 \text{ ppm}$ 

Ingestion: Unlikely to cause any acute toxicity.

Eye Contact: Likely to cause eye irritation.

Skin Contact: Mild skin irritant and skin sensitiser.

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: May be harmful to human target organs via

repeated exposure.

Mutagenicity: Not mutagenic

Carcinogenicity: Not carcinogenic

Reproductivity: Suspected human reproductive toxicant

Chronic Toxicity: May cause chronic toxicity via repeated exposure

### 12. ECOTOXICITY INFORMATION



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#### 12. ECOTOXICITY INFORMATION

Environmental Effects: Substance: 9.1A, 9.2A, 9.4C.  $LC_{50} \le 1 \text{ mg/L}$ ;

 $EC_{50} \le 1$  ppm;  $11 \le LD_{50}$ /terrestrial invertebrate <

25 µg

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.

Rapid degrade & Bioaccumulative: Permethrin is rapid degradable and

bioaccumulative

Soil toxicity: Highly ecotoxic to the soil environment.

### 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, Rail, Marine and Air:

UN Number: UN1950

Dangerous Goods Class: 2.1.2A Flammable aerosol

Hazchem Code: 2YE

Packaging Group:

Proper Shipping Name: Aerosols flammable n.o.s.

Segregation: The Segregation Groups have been reproduced

in NZS 5433:2007



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### 15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR000266

HSNO Classifications: 2.1.2A, 6.3B, 6.4A, 6.5A, 6.5B, 6.8B, 6.9B, 9.1A,

9.2A, 9.4C.

HSNO Controls: See HSR000266 controls

HSNO Approved codes of Practice: See HSR000266 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: 12 / 03 / 2018

SDS date of revision: 12 / 13 / 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, 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