

SAFETY DATA SHEET

Product Name: NO Borer Concentrate

Issue Date: 19/06/2018

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1. PRODUCT AND COMPANY INFORMATION

| | |
|----------------------------|--|
| Product Name: | NO Borer Concentrate |
| Synonyms: | None |
| 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

| | |
|-----------------------------------|--|
| Dangerous Goods: | Signal word = Danger |
| Packaging Group: | III |
| Hazardous Substance (HSNO) Codes: | 6.3B Mild skin irritant 8.3A Eye corrosive 6.9B Harmful to human target organs (oral single & repeated exposure) 9.1A Very ecotoxic in the aquatic environment 9.4B Ecotoxic to terrestrial invertebrates |

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2. HAZARDS IDENTIFICATION

Hazard Statement:

H316: Causes mild skin irritation.

H318: Causes serious eye damage.

H371: May cause damage to organs.

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

H400: Very toxic to aquatic life.

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

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.

P260: Do not breathe vapours/spray.

P264: Wash hands thoroughly after handling.

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

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P310: Immediately call a POISON CENTER or doctor/physician.

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

P391: Collect spillage.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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

P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

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 |
| 6.3B | Not applicable for the UN RTDG Model Regulations | No pictogram | Warning | H316 | P103 ^b | P332 + P313 | No storage statements | P501 |
| 8.3A | Not applicable for the UN RTDG Model Regulations |  | Danger | H318 | P102 ^b P103 ^b P280 | P101 ^b P305 + P351 + P338 P310 | No storage statements | P501 |
| 6.9B (Single exposure) | Not applicable for the UN RTDG Model Regulations |  | Warning | H371 | P103 ^b P260 P264 P270 | P309 + P311 | P405 | P501 |
| 6.9B (Repeated exposure) | Not applicable for the UN RTDG Model Regulations |  | Warning | H373 | P103 ^b P260 | P314 | No storage statements | P501 |
| 9.1A |  |  | Warning | H400/H410 ^m | P103 ^b P273 | P391 | No storage statements | P501 |
| 9.4B | Not applicable for the UN RTDG Model Regulations |  | No Signal Word | H442 | P103 ^b P273 | P391 | No storage statements | P501 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: To control Borer

Appearance: Colourless transparent solution

Ingredients

| Ingredients | CAS # | Content % w/w or w/v |
|-------------------|------------|----------------------|
| Permethrin | 52645-53-1 | 1 % w/w |
| Other ingredients | N/A | 99 % w/w |
| | | |

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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: | Cause eye damage. 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: | Causes mild skin irritant. Avoid contact with skin. If skin contact occurs wash off with soap and water. If skin irritation occurs get medical advice. |
| Inhalation: | May 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: | Clear fire area of all non-emergency personnel. |
| Suitable Extinguishing Media: | Water spray, foam, CO ₂ , dry chemical or any class B extinguishing agent. |
| Fire Fighting Advice: | For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Equipment should be thoroughly cleaned after use. Read the entire document. |

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6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up:

Minor Spills (Up to 20 L):

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. 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 incinerated at an authorised installation.

Major Spills (more than 20 L):

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. 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

Precautions for safe handling:

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Keep away from sources of ignition – No smoking, eating or drinking while handling this product. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Read the label before use.

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7. HANDLING AND STORAGE

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. Do not allow product to get wet in storage.

Protection against fire and explosion:

Keep away from heat sources even though the product is not combustible. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 7th 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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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:

| Code | Section of the Act | Control |
|------------------------------|--------------------|---|
| Water | 77A | This substance must not be applied into or onto water |
| Application Method | | This substance must be applied by ground-based methods only |
| Label requirements | 77A | <p>The substance label must include information about the following:</p> <ul style="list-style-type: none"> The restrictions on application to ground-based methods and against application into or onto water The restrictions applied to protect terrestrial invertebrates, including bees A warning of the effects of paresthesia and how to avoid it |
| Stationary Container Systems | Schedule 8 | <p>SCHEDULE 8 OF THE HAZARDOUS SUBSTANCES (DANGEROUS GOODS AND SCHEDULED TOXIC SUBSTANCES) TRANSFER NOTICE 2004</p> <p>This schedule prescribes the controls for stationary container systems. The requirements of this schedule are detailed in the consolidated version of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004, available from http://www.epa.govt.nz/Publications/Transfer-Notice-35-2004.pdf</p> <p>The following clause replaces Clause 1 of Schedule 8 of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004:</p> <p><i>This Schedule applies to every stationary container system that contains, or is intended to contain the substance</i></p> |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|---------------------------------|
| Appearance and Odour: | Colourless transparent solution |
| Solubility: | Soluble in water. |

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| | |
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| Specific Gravity: | 0.875 Kg/L |
| Boiling Point: | Not known |
| Viscosity: | Low. |
| Flash Point: | > 100 °C |
| pH Value: | 4.0 – 5.0 (10% solution) |
| Formula: | Mixture |
| Chemical Family: | Pyrethroid |
| Oxidising Agents: | Not an oxidant |
| 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. Not explosive or oxidising. |
| Incompatibility or conditions to be avoid: | Avoid strong oxidising agents. Avoid heat, sparks and open flame. |
| Corrosive Properties: | Corrosive to eyes. |
| Thermal Decomposition: | The formation of toxic/irritant gases/vapours may occur if heated. |

11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredients:

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

For the substance (final product):

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11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------------|--|
| Skin corrosion/irritation: | HSNO classification 6.3B; mild skin irritancy. |
| Serious eye damage/eye irritation: | HSNO 8.3A or GHS H318; cause eye damage. |
| Respiratory or skin sensitization: | Not a sensitizer. |
| Germ cell mutagenicity: | Not mutagenic. |
| Carcinogenicity: | Not carcinogenic. |
| Reproductivity: | Not reproductive. |
| Acute Toxicity: | Acute oral 5000 < LD ₅₀ mg/kg (calculated) |
| Chronic Toxicity: | May cause damage to organs through prolonged or repeated exposure. |

12. ECOTOXICITY INFORMATION

| | |
|--------------------------|--|
| Ecological information: | HSNO 9.1A or GHS H400/410; Very ecotoxic in the aquatic environment. HSNO 9.4B or GHS H442; ecotoxic to the terrestrial invertebrates. |
| Permethrin (52645-53-1): | 9.1A; 9.3B; 9.4A. |

The substance triggers HSNO class 9.1A, and 9.4B classifications. In addition, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer. Therefore it is unlikely to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

| | |
|-----------------------------------|---|
| Waste treatment – recommendation: | In the case of a substance that is in compliance with 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. |
|-----------------------------------|---|

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13. DISPOSAL CONSIDERATIONS

Container Disposal: Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Road and Rail

UN Number: 3082

Dangerous Goods Class: 9

Hazchem Code: 2XE

Packaging Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid
N.O.S. - Permethrin

Segregation: None allocated

Marine

UN Number: 3082

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid
N.O.S. - Permethrin

Air Transport

UN Number: 3082

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid
N.O.S. - Permethrin

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15. N.Z. REGULATORY INFORMATION

| | |
|----------------------------------|---|
| EPA HSNO Number: | HSR101164 |
| HSNO Classifications: | 6.3B Mild skin irritant 8.3A Eye corrosive 6.9B Harmful to human target organs 9.1A Very ecotoxic in the aquatic environment 9.4B Ecotoxic to terrestrial invertebrates |
| HSNO Controls: | Refer to HSR101164 |
| HSNO Approved codes of Practice: | Refer to HSR101164 |

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: | 29 / 07 / 2016 |
| SDS date of revision: | 29 / 07 / 2021 |
| 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

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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