

# SAFETY DATA SHEET



Product Name: Organic Caterpillar Bio Control

Issue Date: 12/01/2018

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## 1. PRODUCT AND COMPANY INFORMATION

|                            |   |
|----------------------------|---|
| <b>Product Name:</b>       | <b>Organic Caterpillar Bio Control</b>  |
| Relevant identified uses:  | Insecticide containing <i>Bacillus thuringiensis</i>  |
| Molecular Formula:         | Bacillaceae   |
| Supplier:                  | Kiwicare Corporation Limited & Sipcam   |
| Street Address:            | 225 Maces Road, Bromley, Christchurch, 8062<br>New Zealand<br><br>191 Malop Street, Geelong, Victoria, 3220 |
| Postal Address:            | P.O Box 15050, Aranui, Christchurch, 8643<br>New Zealand  |
| Telephone                  | +64 3 389 0778; +61 3 5223 3746   |
| 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)  |

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## 2. HAZARDS IDENTIFICATION

| HSNO Hazard Classification | Transport of Dangerous Goods Pictogram           | GHS Pictogram | Signal word    | Hazard statement code                                   | Precautionary statement codes |                        |                       |          |
|----------------------------|--|---------------|----------------|---|-------------------------------|------------------------|-----------------------|----------|
|                            |  |               |                |   | Prevention                    | Response               | Storage               | Disposal |
| 9.1D                       | Not applicable for the UN RTDG Model Regulations | No Pictogram  | No Signal Word | H401 <sup>n</sup> /H402 <sup>p</sup> /H413 <sup>p</sup> | P103 <sup>b</sup><br>P273     | No response statements | No storage statements | P501     |

Dangerous Goods: Not dangerous goods

Packaging Group: None allocated

Hazardous Substance (HSNO) Codes: 9.1D (Slightly harmful in the aquatic environment)

Hazard Statement: H413: May Cause long lasting harmful effects to aquatic life.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep it out of reach of children.

P103: Read label before use.

P273: Avoid release to the aquatic environment.

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Insecticide

Appearance: Brown granulated solid

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## Ingredients

| Ingredients            | CAS #        | Content % |
|------------------------|--------------|-----------|
| Bacillus thuringiensis | 68038-71-1   | 85 %      |
| Other ingredients      | NA (Mixture) | To 100 %  |

## 4. FIRST AID MEASURES

|                             |  |
|-----------------------------|--|
| General information:        | In case of accident, or if you feel unwell, seek medical advice (show the label where possible).   |
| Ingestion:                  | Rinse mouth. Do NOT induce vomiting. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.  |
| Eye Contact:                | Unlikely to cause eye irritation. Rinse opened eye for several minutes under running water. If irritation persists seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.  |
| Skin Contact:               | Unlikely to cause mild skin irritation. Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.   |
| Inhalation:                 | If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice. Unlikely to present an inhalation hazard. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand. |
| Advice for Medical Doctors: | Treat symptomatically. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.   |

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## 5. FIRE FIGHTING MEASURES

|                               |  |
|-------------------------------|--|
| Specific Hazards:             | Formation of toxic gases may occur if heated such as carbon monoxide, and other unidentified organic and inorganic compounds.  |
| Suitable Extinguishing Media: | Keep fire exposed containers cool by spraying with water. Appropriate fire extinguishers are CO <sub>2</sub> , Powder or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.  |
| Fire Fighting Advice:         | Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later. |

## 6. ACCIDENTAL RELEASE MEASURES

|                                 |   |
|---------------------------------|---|
| Environmental precautions:      | Prevent leakage or spillage if safe to do so.   |
| Minor Spills (Up to 20 kg):     | Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.   |
| Major Spills (more than 20 kg): | <p>Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. 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.</p> <p>Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.</p> |

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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.

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## 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid prolonged or repeated contact with skin. Avoid inhaling dusts. 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.

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 8<sup>th</sup> edition)

Engineering Controls:

General ventilation. 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                      |   |
|--------------------------------------|---|
| 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.  |

| A<br>Substance | CAS # | TWA |                   | STEL |                   |
|----------------|-------|-----|-------------------|------|-------------------|
|                |       | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                       |                         |
|-----------------------|-------------------------|
| Appearance and Odour: | Brown granulated solid. |
| Solubility:           | Dispersible             |
| Specific Gravity:     | No data                 |
| Boiling Point:        | Not applicable          |
| Flash Point:          | > 93 °C                 |
| pH Value:             | 6.4 at 23°C             |
| Explosion Hazard:     | No explosion hazard     |
| Formula:              | Bacillus thuringiensis  |
| Chemical Family:      | Bacillus thuringiensis  |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                    |
|------------------------------|--------------------|
| 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 avoided: | This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. |
| Incompatibility:                             | Water, acids, bases, oxidising agents, reducing agents, zinc, tin, aluminium and their alloys.                                     |
| Thermal Decomposition:                       | The formation of toxic/irritant gases/vapours may occur if heated.   |

## 11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredients:

|   |   |
|---|---|
| <b>Bacillus Thuringiensis</b> (68038-71-1): | LD50 Oral, Rat >5000mg/kg LD50 Dermal, Rat = >2000mg/kg |
|---|---|

For the substance (final product):

|                                    |  |
|------------------------------------|--|
| Skin corrosion/irritation:         | It is unlikely to cause skin damage or irritation. |
| Serious eye damage/eye irritation: | It is unlikely to cause eye damage or irritation.  |
| Respiratory or skin sensitization: | It is unlikely to cause an allergic skin reaction. |
| Germ cell mutagenicity:            | Not mutagenic.                                     |
| Carcinogenicity:                   | Not carcinogenic.                                  |
| Acute Toxicity:                    | Acute oral LD <sub>50</sub> > 5000 mg/kg (rat)     |

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## 11. TOXICOLOGICAL INFORMATION

Chronic Toxicity: No chronic toxicity.

## 12. ECOTOXICITY INFORMATION

Ecological information of substance: 9.1D slightly harmful in the aquatic environment.

Bioaccumulative and soil toxicity: This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

The substance only triggers the lowest HSNO class 9.1D classification. In addition, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer. Therefore it is highly 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 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.

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

## 14. TRANSPORT INFORMATION

### Road, Rail, Marine and Air

UN Number: None allocated

Dangerous Goods Class: Not dangerous goods. Not restricted for transport. (HSNO ADR/RID; IMDG; IATA/ICAO)

Hazchem Code: None allocated

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## 14. TRANSPORT INFORMATION

|                       |                |
|-----------------------|----------------|
| Packaging Group:      | None allocated |
| Proper Shipping Name: | None allocated |
| Segregation:          | None allocated |

## 15. N.Z. REGULATORY INFORMATION

|                       |  |
|-----------------------|--|
| EPA HSNO Number:      | HSR000699  |
| HSNO Classifications: | 9.1D (Slightly Harmful in the aquatic environment) |
| HSNO Controls:        | Refer to HSR000699                                 |
| ACVM Approved code:   | P008021  |
| BioGro Approval code: | 4850   |

## 16. OTHER INFORMATION

|                          |                            |
|--------------------------|----------------------------|
| SDS date of preparation: | 07 / 08 / 2017             |
| SDS date of revision:    | 07 / 08 / 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 Sipcam.

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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