

SAFETY DATA SHEET

Product Name: LawnPro Protect

Issue Date: 23/08/2018

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1. PRODUCT AND COMPANY INFORMATION

| | |
|----------------------------|--|
| Product Name: | LawnPro Protect |
| Molecular Formula: | Granular 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: | Class 9, signal word = warning |
| Packaging Group: | III |
| Hazardous Substance (HSNO) Codes: | 9.1A (Very ecotoxic to the aquatic environment); 9.4C (Harmful to terrestrial invertebrates). |
| Hazard Statements: | H400/410: Very toxic to aquatic environment. H443: Harmful to terrestrial invertebrates. |
| 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. |

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2. HAZARDS IDENTIFICATION

P273: Avoid release to the environment.

P391: Collect spillage.

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.

| HSNO Hazard Classification | Transport of Dangerous Goods Pictogram | GHS Pictogram | Signal word | Hazard statement code | Precautionary statement codes | | | |
|----------------------------|--|--|----------------|------------------------|-------------------------------|------------------------|-----------------------|----------|
| | | | | | Prevention | Response | Storage | Disposal |
| 9.1A |  |  | Warning | H400/H410 ^m | P103 ^b P273 | P391 | No storage statements | P501 |
| 9.4C | Not applicable for the UN RTDG Model Regulations | No Pictogram | No Signal Word | H443 | P103 ^b P273 | No response statements | No storage statements | P501 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Granular insecticide

Appearance: Blue even, free flowing, dust free granule

Ingredients

| Active ingredients | CAS # | Content % w/w or w/v |
|--------------------|-------------------------|----------------------|
| Lambda-Cyhalothrin | 91465-08-6 / 68085-85-8 | ~ 0.04% |
| Diatomaceous earth | 61790-53-2 | > 99% |
| Other ingredients | NA; mixture | To 100% |

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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: | Unlikely to cause 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: | Unlikely to cause mild skin irritation. Avoid contact with skin. If skin contact occurs wash off with soap and water. If skin irritation persists seek medical advice. |
| Inhalation: | Unlikely to cause irritation of upper respiratory tract. If ill effects persist 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 Kg):

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 Kg):

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:

Rinse out empty containers and do not use for any other purpose.

Storage:

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. Keep container sealed when not in use.

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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
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| Exposure Standards: | See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 9 th 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. |
| 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. |

| D Substance | CAS # | TWA | | STEL | |
|---|--------------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Diatomaceous earth (not calcined) (see Silica-Amorphous) | [61790-53-2] | | 10 | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|--|
| Appearance and Odour: | Blue even, free flowing, dust free granule |
| Solubility: | Insoluble |
| PH: | Not applicable for solid formulation |
| Specific Gravity: | None allocated |
| Flash Point: | >93 °C |
| Explosion Hazard: | Not Explosive |
| Oxidising Agents: | Not an oxidant |
| Engineering Controls: | See section 8. |

10. STABILITY AND REACTIVITY

| | |
|------------------------|--|
| Stability: | Stable under normal conditions of use |
| Incompatibility: | Avoid mixing with strong acid or base. |
| Corrosive Properties: | Not corrosive. |
| Thermal Decomposition: | Hazardous gases maybe formed when overheated |

11. TOXICOLOGICAL INFORMATION

Ingredient:

Lambda-Cyhalothrin (91465-08-6): 6.1A (inhale), 6.1A (All), 6.1B (oral), 6.1C (dermal); 6.3B; 6.4A; 6.9A; 9.1A; 9.3A; 9.4A.

Substance:

| | |
|---------------|--------------------------------------|
| Ingestion: | Unlikely to cause any acute toxicity |
| Eye Contact: | Unlikely to cause eye irritation |
| Skin Contact: | Unlikely to cause skin irritation |

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11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------------|--|
| Inhalation: | Unlikely to be irritant to the respiratory tract |
| Long Term target organ toxicity: | Unlikely to cause any target organ toxicity |
| Acute Toxicity data: | Acute LD ₅₀ oral rat > 5000 mg/kg (mixture rule) Acute LD ₅₀ dermal rat > 5000 mg/kg (mixture rule) Acute LD ₅₀ inhalation rat > 100 mg/kg (mixture rule) |
| Other chronic effect: | Unlikely to cause any chronic effect; not mutagenic; not carcinogenic; and not a reproductive toxicant. |

12. ECOTOXICITY INFORMATION

| | |
|----------------------------------|---|
| Environmental Effects: | 9.1A Very eco-toxic to the aquatic environment; L(E)C ₅₀ ≤ 1 ppm. 9.4C Harmful to terrestrial invertebrates. Avoid contaminating waterways and fishponds. Do not allow spray to drift onto aquatic environments, other crops or desirable plants or outside the target area. Keep children, pets, terrestrial vertebrates and any non-target terrestrial invertebrates like bees off treated areas. This substance must not be applied when plants are flowering. Contaminated absorbent and wash water should be disposed of according to local and national regulations. |
| Rapid degrade & Bioaccumulative: | The active ingredient Lambda-Cyhalothrin is Bioaccumulative. Not rapid degradable. |
| Soil Toxicity: | No soil toxicity. |

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]

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13. DISPOSAL CONSIDERATIONS

| | |
|---------------------|---|
| Product Disposal: | Wear protective clothing. Clear area of unprotected personnel. Contain spill and sweep up/collect in an appropriate sealable container for disposal in an approved landfill or incinerated at an authorised installation. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. |
| Container Disposal: | Rinse out empty containers prior disposal. Do not re-use empty container for any other purpose All aspects of disposal, handling, use and record keeping must be in accordance with NZS 8409-2004 "Management of Agrichemicals" and local and regional council. |

14. TRANSPORT INFORMATION

Road, Rail, Marine and Air

| | |
|------------------------|---|
| UN Number: | 3077 |
| Dangerous Goods Class: | Class 9 |
| Hazchem Code: | 2Z |
| Packaging Group: | III |
| Proper Shipping Name: | 3077 Environmentally hazardous substance, solid, n.o.s. |
| Marine pollutant: | Class 9 (9.1A HSNO)  |

15. N.Z. REGULATORY INFORMATION

| | |
|-----------------------|--|
| EPA HSNO Number: | HSR101291 |
| HSNO Classifications: | 9.1A, 9.4C. |
| HSNO Controls: | See HSR101291 - www.epa.govt.nz |

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15. N.Z. REGULATORY INFORMATION

HSNO Approved codes of Practice: See HSR101291 - www.epa.govt.nz

16. OTHER INFORMATION

| | |
|--------------------------|----------------------------|
| SDS date of preparation: | 23 / 08 / 2018 |
| SDS date of revision: | 23 / 08 / 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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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 of the starting material.

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