

SAFETY DATA SHEET

Product Name: LawnPro Turfclean Concentrate

Issue Date: 26/06/2019

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1. PRODUCT AND COMPANY INFORMATION

| | |
|----------------------------|--------------------------------------------------------------|
| Product Name: | LawnPro Turfclean Concentrate |
| Relevant identified uses: | Herbicide containing Phenoxy derivatives |
| 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) |

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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 |
| 6.1D (oral) | Not applicable for the UN RTDG Model Regulations |  | Warning | H302 | P102 P103 ^b P264 P270 | P101 ^b P301 + P312 P330 | No storage statements | P501 |
| 6.1D (dermal) | Not applicable for the UN RTDG Model Regulations |  | Warning | H312 | P102 P103 ^b P280 | P101 ^b P302 + P352 P312 P322 P363 | No storage statements | P501 |
| 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 (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 |
| 9.2A | Not applicable for the UN RTDG Model Regulations |  | Warning | H421 | P103 ^b P273 | P391 | No storage statements | P501 |
| 9.3C | Not applicable for the UN RTDG Model Regulations | No Pictogram | No Signal Word | H433 | P103 ^b P273 | No response statements | No storage statements | P501 |

Dangerous Goods class: 9

Packaging Group: III

Signal word: Danger

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Hazardous Substance (HSNO) Codes: 6.1D(oral, dermal) (Level 4 oral, dermal toxicity)
6.3B (Mild skin irritation)
6.9B (Harmful to human target organs)
8.3A (Eye corrosive)
9.1A (Very ecotoxic to the aquatic environment)
9.2A (Very ecotoxic to the soil environment)
9.3C (Harmful to terrestrial vertebrates)

Hazard Statement: H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H316: Causes mild skin irritation.
H318: Causes serious eye damage.
H373: May cause damage to organs through repeated exposure
H400/410: Very toxic to aquatic life.
H421: Very toxic to the soil environment.
H433: Harmful to terrestrial vertebrates.

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 spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the aquatic environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P310: Immediately call a POISON CENTER or doctor/physician.
P314: Get medical advice/attention if you feel unwell.

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P322: See specific measures on the label.

P330: Rinse mouth.

P362: Take off contaminated clothing and wash before re-use.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P332+313: If skin irritation occurs: Get medical advice/ attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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: | Ready to mix herbicide |
| Appearance: | Pale brown low viscosity liquid |

Ingredients

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| Ingredients | CAS # | Content % |
|-----------------|------------|-----------|
| Mecoprop-p salt | 7085-19-0 | 16 - 17 % |
| MCPA salt | 16484-77-8 | 4 - 5 % |
| Dicamba salt | 1918-00-9 | 2 - 3 % |
| Water | 7732-18-5 | > 65% |

4. FIRST AID MEASURES

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information: | In case of accident, or if you feel unwell, seek medical advice (show the label where possible). |
| Ingestion: | Harmful if swallowed. 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: | Potentially cause eye damage. 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: | Harmful if in contact with skin. May 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. 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

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| 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 ₂ , 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): | 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. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation. |

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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. |
| 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 although the substance has no flammability. 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 th edition) |
| Engineering Controls: | Keep away from foodstuffs, beverages and feed. Use in well-ventilated area with local exhaust. Wash hands 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: | Avoid / minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation. |

| T Substance | CAS # | TWA | | STEL | |
|----------------|-------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |

None

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|--------------------------------------------|
| Appearance and Odour: | Pale brown low viscosity liquid |
| Solubility: | Soluble |
| Specific Gravity: | ~ 1.05 |
| Flash Point: | >93 °C |
| pH Value: | 9.0 – 11.0 |
| Formula: | Mixture |
| Chemical Family: | Herbicidal substance; Phenoxy derivatives. |
| Exposure Standards (TLV-TW): | Refer to section 8 |
| Engineering Controls: | Refer to section 8 |

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10. STABILITY AND REACTIVITY

| | |
|----------------------------------------------|--------------------------------------------------------------------|
| Stability & Chemical reactivity: | Stable under normal conditions of use. Not explosive or oxidising. |
| Incompatibility or conditions to be avoided: | Avoid strong oxidising agents. Avoid heat, sparks and open flame. |
| Corrosive Properties: | Potentially corrosive to eyes. |
| Thermal Decomposition: | The formation of toxic/irritant gases/vapours may occur if heated. |

11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredient:

Mecoprop-p salt
(7085-19-0): LD₅₀(oral, rat) = 650 ppm; LD₅₀(dermal, rabbit) = 900 ppm; LC₅₀(inhale, rat, 4hrs) > 12.5 ppm

Dicamba salt (1918-00-9): LD₅₀(oral, rat) > 1707 ppm; LD₅₀(dermal, rat) > 2000 ppm; LC₅₀(inhale, rat, 4hrs) > 9.6 ppm

MCPA salt (16484-77-8): LD₅₀(oral, rat) = 700 ppm; LD₅₀(dermal, rat) > 4000 ppm; LC₅₀(inhale, rat, 4hrs) > 6.4 ppm

For the substance (final product): HSNO 6.1D(o, d); 6.3B; 8.3A; 6.9B; 9.1A; 9.2A; 9.3C

Skin corrosion/irritation: May cause mild skin irritation.

Serious eye damage/eye irritation: May cause eye damage.

Respiratory or skin sensitization: Unlikely to cause skin sensitization.

Germ cell mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductivity: Not a reproductive toxicant.

Acute Toxicity: Acute oral LD₅₀ > 300 and < 2000 mg/kg (rat)

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11. TOXICOLOGICAL INFORMATION

Chronic Toxicity: May cause damage to organs through repeated exposure.

12. ECOTOXICITY INFORMATION

Ecological information: 9.1A Very ecotoxic to the aquatic environment; L(E)C₅₀ < 1 ppm
 9.2A Very ecotoxic to the soil environment; EC₅₀ < 1 ppm
 9.3C Harmful to terrestrial vertebrates

Rapid degrade and Bioaccumulative: All 3 A.I.s are biodegradable, not persistent.

The substance triggers the HSNO class 9.1A, 9.2A and 9.3C classifications. However, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer and plus other appropriate controls. 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 and Rail

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14. TRANSPORT INFORMATION

| | |
|------------------------|---------------------------------------------------------------------------------------------------|
| UN Number: | 3082 |
| Dangerous Goods Class: | Class 9 |
| Hazchem Code: | 3Z |
| Packaging Group: | III |
| Proper Shipping Name: | Environmentally hazardous substance, liquid, n.o.s. Phenoxy herbicide. (ADR/RID; IMDG; IATA/ICAO) |
| Segregation: | None allocated |

Marine

| | |
|-----------------------|---------------------------------------------------------------------------------------------------|
| UN Number: | 3082 |
| Class: | Class 9 |
| Packaging Group: | III |
| Proper Shipping Name: | Environmentally hazardous substance, liquid, n.o.s. Phenoxy herbicide. (ADR/RID; IMDG; IATA/ICAO) |

Air Transport

| | |
|-----------------------|---------------------------------------------------------------------------------------------------|
| UN Number: | 3082 |
| Class: | Class 9 |
| Packaging Group: | III |
| Proper Shipping Name: | Environmentally hazardous substance, liquid, n.o.s. Phenoxy herbicide. (ADR/RID; IMDG; IATA/ICAO) |

15. N.Z. REGULATORY INFORMATION

| | |
|------------------|-----------|
| EPA HSNO Number: | HSR000362 |
|------------------|-----------|

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14. TRANSPORT INFORMATION

| | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HSNO Classifications: | 6.1D(oral) (Level 4 oral & dermal toxicity) 6.3B (Mild skin irritation) 8.3A (Eye corrosive) 6.9B (Harmful to human target organs) 9.1A (Very ecotoxic to the aquatic environment) 9.2A (Very ecotoxic to the soil environment) 9.3C (Harmful if swallowed) |
| HSNO Controls: | Refer to HSR000362 |
| HSNO Approved codes of Practice: | Refer to HSR000362 |

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: | 07 / 07 / 2017 |
| SDS date of revision: | 07 / 07 / 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 an 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

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