

SAFETY DATA SHEET

Product Name: LawnPro Turfclean & Green

Issue Date: 25/07/2019

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	LawnPro Turfclean & Green LawnPro Turfclean & Green + D-Thatch
Relevant identified uses:	Liquid fertiliser and herbicide containing 40% urea, <1.0% Dichlorprop-p, <0.5% MCPA, and <0.5% Mecoprop-p
Molecular Formula:	Ready to Spray herbicide
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
6.3B	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H316	P103 ^b	P332 + P313	No storage statements	P501
6.4A ⁱ	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 ^b P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501
6.5B	Not applicable for the UN RTDG Model Regulations		Warning	H317	P103 ^b P261 P272 P280	P302 + P352 P333 + P313 P321 P363	No storage statements	P501
9.1C	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H412	P103 ^b P273	No response statements	No storage statements	P501
9.2A	Not applicable for the UN RTDG Model Regulations		Warning	H421	P103 ^b P273	P391	No storage statements	P501

Dangerous Goods: Not a DG (HSNO)

Signal word: Warning

UN number & UN Packaging Group: Not applicable

Hazardous Substance (HSNO) Codes: 6.3B (Mild skin irritant)
6.4A (Eye irritant)
6.5B (Contact sensitizer)
9.1C (Harmful to the aquatic environment)
9.2A (Very ecotoxic in the soil environment)

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Hazard Statements:	<p>H316: Causes mild skin irritation.</p> <p>H317: May cause an allergic skin reaction.</p> <p>H319: Causes serious eye irritation.</p> <p>H412: Harmful to the aquatic life.</p> <p>H421: Very toxic to the soil environment.</p>
Precautionary Statements:	<p>P101: If medical advice is needed, have product container or label at hand.</p> <p>P102: Keep out of reach of children.</p> <p>P103: Read label before use.</p> <p>P261: Avoid breathing spray.</p> <p>P264: Wash thoroughly after handling.</p> <p>P272: Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P321: Specific treatment, read on the label.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P391: Collect spillage.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/ attention.</p> <p>P337 + P313: If eye irritation persists: Get medical advice/attention.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501: Achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use:	Ready to spray liquid herbicide
Appearance:	Brown transparent thin liquid

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Ingredients

Ingredients	CAS #	Content %
Dichlorprop-p DMA	104786-87-0	< 1.00 %
MCPA DMA	2039-46-5	< 0.5 %
Mecoprop-p DMA	66423-09-4	< 0.5 %
Iron EDTA	15651-72-6	< 2.0 %
Urea	57-13-6	~ 40.0%
Other non-active 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:	May 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:	May cause mild dermal irritation and sensitization. Immediately take off all contaminated clothing. 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.

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4. FIRST AID MEASURES

Advice for Medical Doctors: Treat symptomatically. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.

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 CO₂, 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.

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6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid prolonged or repeated contact with skin. Avoid inhaling spray 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 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 8th edition)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
Environmental Exposure Controls:	Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

A Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³

None

New Zealand EPA additional controls

Additional controls

Code	Section of the Act	Control
Water	77A	This substance must not be applied into or onto water.

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Application Method		This substance must be applied using ground-based methods only.
Application rate		<p>The maximum application rate of dichlorprop-p is 0.81 kg a.i./ha.</p> <p>The maximum application rate of MCPA is 0.42 kg a.i./ha.</p> <p>The maximum application rate of mecoprop-p is 0.34 kg a.i./ha.</p> <p>The maximum application frequency and minimum interval period of this substance must not be more than four times per calendar year with a minimum interval between applications of 30 days.</p>
Restriction on impurity		<p>The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 2,4-dichlorophenol) in the active ingredient dichlorprop-p used to manufacture this substance is 10 g/kg.</p> <p>The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 4-chloro-2-methylphenol) in the active ingredient mecoprop-p used to manufacture this substance is 10 g/kg.</p> <p>The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 4-chloro-2-methylphenol) in the active ingredient MCPA used to manufacture this substance is 10 g/kg.</p>
Label	77A	<p>The following information, or words to the same effect, must appear on the product label and documentation supplied with this substance:</p> <p>This substance must not be applied into or onto water.</p> <p>This substance must be applied using ground-based methods only.</p> <p>The approved application rates, frequencies and intervals between applications.</p> <p>No person may apply the substance in a manner that results in adverse effects to non-target vegetation beyond the boundary of the subject property.</p>
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 Schedule 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: Brown transparent thin liquid

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9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility:	Soluble
Specific Gravity:	1.12-1.14 kg/L
Flash Point:	>100°C
pH Value:	6 - 8
Formula:	Mixture
Chemical Family:	Phenoxy- derivatives and urea
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:	Not corrosive.
Thermal Decomposition:	The formation of toxic/irritant gases/vapours may occur if heated.

11. TOXICOLOGICAL INFORMATION

<u>For the substance (final product):</u>	(Based on Mixture rule calculation)
Acute Toxicity:	Acute oral LD ₅₀ > 5000 mg/kg
Skin corrosion/irritation:	Causes mild skin irritation
Serious eye damage/eye irritation:	Causes eye irritation
Respiratory or skin sensitization:	Causes skin reaction sensitization.
Germ cell mutagenicity:	Not mutagenic.

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11. TOXICOLOGICAL INFORMATION

Carcinogenicity:	Not carcinogenic.
Reproductive Toxicity:	No Reproductive toxicity.
Specific target organ toxicity – single exposure & Repeated exposure:	No target organ toxicity.
Aspiration hazard:	No data available
Potential health effects –	
Inhalation:	Unlikely to be harmful
Ingestion:	Unlikely to be Harmful
Skin:	Causes mild skin irritancy and sensitization

12. ECOTOXICITY INFORMATION

Aquatic toxicity:	9.1C; Harmful to the aquatic environment. 10ppm < LC ₅₀ ≤ 100 ppm; exposure of non-target animals should be prevented.
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Soil toxicity:	9.2A Very ecotoxic in the soil environment GHS = H421: EC ₅₀ ≤ 1mg/kg Exposure of non-target animals should be prevented.
Other adverse effects:	None

Product label indicates that this product or washings of this product are not allowed to enter the waterways or sewer and minimise the environmental release. Therefore, it is unlikely to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

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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.
Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licenced professional waste disposal service to dispose of this material.
Contaminated packaging:	Dispose of as unused product.
Container Disposal:	Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Road, Marine and Air

UN number ADR/RID; IMDG; IATA-DGR:	Not applicable
UN Proper Shipping Name:	Not applicable
UN Dangerous Goods Class:	Not applicable
UN Packaging Group:	Not applicable
Environmental hazards:	Harmful to aquatic system and soil toxicity
Special precautions for user:	Read the product use instructions before use

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101236
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15. N.Z. REGULATORY INFORMATION

HSNO Classifications:	6.3B (Mild skin irritant)
	6.4A (Eye irritation)
	6.5B (Contact sensitizer)
	9.1C (Harmful to the aquatic environment)
	9.2A (Very ecotoxic in the soil environment)
HSNO Controls:	Refer to HSR101236

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:	16 / 08 / 2017
SDS date of revision:	16 / 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, 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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