

SAFETY DATA SHEET

Product Name: LawnPro All-in-1

Issue Date: 20/06/2017

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	LawnPro All-in-1
Relevant identified uses:	Granular herbicide containing 0.3%< 2,4-D, 0.3%< MCPA, and 0.1%< Dicamba (as amine salts) to control broadleaf weeds and moss in lawns
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)

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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
6.3A	Not applicable for the UN RTDG Model Regulations		Warning	H315	P103 ^b P264 P280	P302 + P352 P321 P332 + P313 P362	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
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

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Dangerous Goods:	Not a DG; Signal word = Warning
Signal word:	Warning
UN number & UN Packaging Group:	None & Not meeting Packing Group I, II or III criteria
Hazardous Substance (HSNO) Codes:	6.1D (Oral) 6.3A (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) 9.3C (Harmful to terrestrial vertebrates)
Hazard Statements:	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects. H421: Very toxic to the soil environment. H433: Harmful to terrestrial vertebrates.

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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.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

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

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

P321: Specific treatment, read 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 or doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

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

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Ready to spread Granular herbicide

Appearance: Brown granule

Ingredients

Ingredients	CAS #	Content %
2,4-D (amine salt)	94-75-7	< 0.3 %
MCPA (amine salt)	16484-77-8	< 0.3 %
Dicamba (amine salt)	1918-00-9	< 0.1 %
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 in susceptible persons. 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 an allergic skin reaction and skin irritation in susceptible persons. 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.

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4. FIRST AID MEASURES

Inhalation:	If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice. Unlikely to present an inhalation hazard as the product is a non-dust granule. 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.

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 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.

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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.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin. Avoid inhaling any dust. 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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 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
2,4-D	[94-75-7]		10		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Brown granule
Solubility:	Partially soluble

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9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity:	Not known
Decomposition Point:	Not known
Viscosity:	NA
Flash Point:	> 93 °C
pH Value:	NA
Explosion Hazard:	Not explosive
Formula:	Mixture
Chemical Family:	Phenoxy- derivatives
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:	Avoid strong oxidising agents. Avoid heat, sparks and open flame.
Corrosive Properties:	None 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 ~ 1050 mg/kg
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/eye irritation:	Causes eye irritation

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11. TOXICOLOGICAL INFORMATION

Respiratory or skin sensitization:	Causes skin reaction sensitization
Germ cell mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive Toxicity:	No reproductive toxicity
Specific target organ toxicity – single exposure & Repeated exposure:	No evidence to suggest that the substance causes specific target organ toxicity
Aspiration hazard:	No data available
Potential health effects –	
Inhalation:	May be harmful if inhaled
Ingestion:	Harmful if swallowed
Skin:	Causes skin irritancy and sensitization

12. ECOTOXICITY INFORMATION

Aquatic toxicity:	9.1C Harmful to the aquatic environment. GHS = H412: $10 < LC_{50} < 100$ mg/l Exposure of non-target species 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: $EC_{50} \leq 1$ mg/kg Exposure of non-target animals should be prevented.
Other adverse effects:	Harmful to terrestrial vertebrates

As the product label indicated that this product is not allowed or washings to enter the waterways or sewer and has other controls. Therefore it is unlikely to be hazardous to the environment.

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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

UN number

ADR/RID; IMDG; IATA-DGR:	None
UN Proper Shipping Name:	Not applicable
UN Dangerous Goods Class:	None
UN Packaging Group:	Not meeting Packing Group I, II or III criteria (HSNO)
Environmental hazards:	Soil toxicity (HSNO; ADR/RID; IMDG; IATA-DGR)
Special precautions for user:	Approved handler requirement if applied in a wide dispersive manner or if it is used by a commercial contractor (HSNO)

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15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101163
HSNO Classifications:	6.1D (Oral) 6.3A (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) 9.3C (Harmful to terrestrial vertebrates)
HSNO Controls:	Refer to HSR101163
HSNO Approved codes of Practice:	Refer to HSR101163
Approved Handler Requirement:	Not required [refer to Hazardous Substances (tracking) Regulation 2001 regulation 9(2)(b)(c)]

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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Additional controls from the NZ EPA:

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 using ground-based methods only
Application rate		The maximum application rate of this substance is 1 kg/ha for 2, 4-D and MCPA, and 0.2 kg/ha for dicamba
Label		<p>The following words, or words to their effect, must be present on the label:</p> <ul style="list-style-type: none"> • This substance must not be applied into or onto water • This substance must be applied using ground-based methods only • The granules must be watered in to minimise accessibility of the granules after application • Gloves should be worn during application
Restriction on impurity		<p>The following limits are set for toxicologically relevant impurities in the active ingredient 2, 4-D used to manufacture this substance:</p> <ul style="list-style-type: none"> • dioxin TEQ: 0.1 ppb maximum • 2, 3, 7, 8 tetrachlorodibenzo-para-dioxin (2, 3, 7, 8 TCDD) congener (undetectable at a detection limit of 0.01 ppb or lower) • free phenol (calculated as 2, 4-dichlorophenol) 3 g/kg maximum <p>The following limits are set for toxicologically relevant impurities in the active ingredient MCPA dimethylammonium used to manufacture this substance:</p> <ul style="list-style-type: none"> • free phenol (expressed as 4-chloro-2-methylphenol): 10 g/kg maximum

16. OTHER INFORMATION

SDS date of preparation:	19 / 06 / 2017
SDS date of revision:	19 / 06 / 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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