

SAFETY DATA SHEET

Product Name: LawnPro Fungus Control

Issue Date: 23/04/2019

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	LawnPro Fungus Control
Relevant identified uses:	Fungicide
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited; Agrisource 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 and +64 9 237 1081
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

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 (inhalation – vapours, dusts or mists)	Not applicable for the UN RTDG Model Regulations		Warning	H332	P102 P103 ^b P261 P271	P101 ^b P304 + P340 P312	No storage statements	P501
6.4A ¹	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 ^b P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501

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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
6.8B	Not applicable for the UN RTDG Model Regulations		Warning	H361	P103 ^b P201 P202 P281	P308 + P313	P405	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
9.3B	Not applicable for the UN RTDG Model Regulations		No Signal Word	H432	P103 ^b P273	P391	No storage statements	P501

Dangerous Goods Class: 9

Packaging Group: III

Signal word: Warning

Hazardous Substance (HSNO) Codes: 6.1D (Oral & Inhale; acute toxicity level 4)
6.4A (Eye irritant)
6.5B (dermal sensitization)
6.8B (Suspected for causing human reproductive toxicity)
6.9B (Harmful to human target organs)
9.1A (Very ecotoxic to the aquatic environment)
9.3B (Toxic to terrestrial vertebrates)

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Hazard Statement:	H302: Harmful if swallowed. H332: Harmful if inhaled. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. H400/410: Very toxic to aquatic life. H432: Toxic 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. P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust P261: Avoid breathing dust P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the aquatic environment. P280: Wear protective gloves/protective clothing /eye protection/face protection*. P281: Use personal protective equipment as required. P310: Immediately call a POISON CENTER or doctor/physician. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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P314: Get medical advice/attention if you feel unwell.

P320: Specific treatment is urgent (see product label)

P321: Specific treatment on product label

P322: Specific measures on product label

P330: Rinse mouth.

P361: Remove/Take off immediately all contaminated clothing

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P405: Store locked up.

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

P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

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

P304+340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P308+313: IF exposed or concerned:

Get medical advice/ attention.

P333+313: If skin irritation occurs:

Get medical advice/ attention

P337+313: If eye irritation persists:

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.

P405: Store locked up.

P403+233: Store in a well-ventilated place.

Keep container tightly closed.

P501: Appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Fungicide

Appearance: Homogenous liquid

Ingredients

Ingredients	CAS #	Content % or g/L
Thiram	137-26-8	400 g/L
Other ingredients	NA	To 100%

4. FIRST AID MEASURES

General information and first aid measures:

Harmful if swallowed inhaled or swallowed. May cause irritation or sensitization from prolonged skin contact. Avoid skin contact. May cause eye irritation. Avoid eye contact. Repeated oral exposure at high doses may cause damage to heart, kidneys and cardiovascular system. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT SCRUB THE SKIN. If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Take to hospital without delay.

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:

Hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Get medical attention.

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4. FIRST AID MEASURES

Skin Contact:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water and soap. Wash clothing before reuse. Destroy contaminated shoes and other contaminated leather articles such as belts and watchbands.
Inhalation:	Remove patient to fresh air. If not breathing, give artificial respiration, preferably mouth-to-nose. Get medical attention if symptoms develop.
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:	Extinguish fires with dry chemical or CO ₂ . During a fire toxic fumes may be released. Cool sealed drums with water to prevent rupture due to thermal expansion. Contain run-off. Keep non-involved persons away.
Fire Fighting Advice:	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 further spillage. Sweep up solids without generating dust.
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear overalls, chemical resistant gloves, boots and safety goggles. Wash down affected area with water plus detergent.
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. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work. Flush spray equipment thoroughly with water after use.
Conditions for safe Storage including incompatibilities:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. This product is classified under HSNO as 9.1A, and storage of certain quantities may require bunding and signage. When stored appropriately this product should show no significant degradation for 2 years from date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

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7. HANDLING AND STORAGE

Protection against fire and explosion: Keep away from heat sources although the substance is not flammable. 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 10th edition). No exposure limits have been specifically designed for this product.

Engineering Controls: Handle in well ventilated areas, generally natural ventilation is adequate. Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately. 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.

Body protection: Body protection must be chosen depending on activity and possible exposure, for example When opening the container, preparing and using product, wear safety goggles, waterproof gloves, cotton overalls buttoned at neck and wrists, boots and approved half face mask.

General safety and hygiene measures: Do not eat, drink or smoke while using. Remove protective clothing and wash face and hands thoroughly before meals and after work. Wash protective clothing daily after work.

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

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T Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
‡ Thiram	[137-26-8]		1		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Homogenous liquid
Solubility:	Miscible
Specific Gravity:	1.12-1.13 g/ml @20°C
Flash Point:	>93 °C non-flammable
pH Value:	6.5 - 8.5
Chemical Family:	Thiocarbamate pesticides
Exposure Standards (TLV-TW):	Refer to section 8
Engineering Controls:	Refer to section 8

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	When stored appropriately this product should show no significant signs of degradation for 2 years from date of manufacture.
Incompatibility or conditions to be avoided:	Avoid strong oxidising agents. Avoid heat, sparks and open flame. Decomposes under acidic conditions. Product may deteriorate on prolonged exposure to heat, air or moisture. Reacts vigorously with oxidising material. Do not mix with Bordeaux mixture, copper compounds, lime sulphur or alkaline materials such as hydrated lime.
Corrosive Properties:	None corrosive.
Thermal Decomposition:	The formation of toxic/irritant gases/vapours may occur if heated.

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11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredient:

Thiram (137-26-8):	HSNO 6.1B(inhale), 6.1C(oral); 6.4A; 6.5B; 6.8B; 6.9B; 9.1A; 9.3B
<u>For the substance (final product):</u>	HSNO 6.1D(inhale, oral), 6.4A; 6.5B; 6.8B; 6.9B; 9.1A; 9.3B
Skin corrosion/irritation:	Unlikely to cause skin irritation.
Serious eye damage/eye irritation:	May cause eye irritation.
Respiratory or skin sensitization:	May cause skin sensitization.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductivity:	Suspected to be a reproductive toxicant.
Acute Toxicity:	Acute oral $300 < LD_{50} < 2000$ mg/kg (rat) Acute dermal $LD_{50} > 5000$ mg/kg (rat) Acute inhalation $1 < LD_{50} < 5$ mg/kg (rat)
Chronic Toxicity:	May cause target organ toxicity via repeated exposure.

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12. ECOTOXICITY INFORMATION

Environmental Effects:	<p>9.1A Very eco-toxic to the aquatic environment; L(E)C₅₀ ≤ 1 mg/L</p> <p>9.3B Toxic to terrestrial vertebrates. Thiram LD₅₀ = 210 mg/kg rabbit.</p> <p>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. Contaminated absorbent and wash water should be disposed of according to local and national regulations.</p>
Rapid degrade & Bioaccumulative:	The active ingredient Thiram is not rapid degradable, and it is not Bioaccumulative.
Soil Toxicity:	No soil toxicity.

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) Notice 2017.
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:	3082
Dangerous Goods Class:	Class 9
Hazchem Code:	2X



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14. TRANSPORT INFORMATION

Packaging Group:	III
Marine pollutant:	Yes
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (40 %Thiram)

15. N.Z. REGULATORY INFORMATION

EPA HSNO Approved Number:	HSR000475
HSNO Controls:	Refer to HSR000475
HSNO Classifications:	6.1D (Inhale, oral; acute toxicity level 4) 6.4A (Eye irritant) 6.5B (dermal sensitization) 6.8B (Suspected for causing human reproductive toxicity) 6.9B (Harmful to human target organs) 9.1A (Very ecotoxic to the aquatic environment) 9.3B (Toxic to terrestrial vertebrates)
ACVM Approved Number:	Not allocated

16. OTHER INFORMATION

SDS date of preparation:	23 / 04 / 2019
SDS date of revision:	23 / 04 / 2024
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 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

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