

SAFETY DATA SHEET

Product Name: PLANThealth Spectrum concentrate SDS

Issue Date:20/06/2018

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	PLANThealth Spectrum concentrate
Relevant identified uses:	A combination of Insecticide & Fungicide
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
6.8B	Not applicable for the UN RTDG Model Regulations		Warning	H361	P103 ^b P201 P202 P281	P308 + P313	P405	P501
9.1A			Warning	H400/H410 ^m	P103 ^b P273	P391	No storage statements	P501

Dangerous Goods Class: 9

Packaging Group: III

Signal word: Warning

Hazardous Substance (HSNO) Codes: 6.8B (Suspected for causing human reproductive toxicity)
9.1A (Very ecotoxic to the aquatic environment)

Hazard Statement: H361: Suspected of damaging fertility or the unborn child.
H400/410: Very toxic to aquatic life.

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.
P273: Avoid release to the aquatic environment.
P281: Use personal protective equipment as required.

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P391: Collect spillage.

P405: Store locked up.

P308+313: IF exposed or concerned:
Get medical advice/ attention.

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: A combination of Insecticide & Fungicide

Appearance: Low viscosity white liquid

Ingredients

Ingredients	CAS #	Content %
Myclobutanil	88671-89-0	4.0 to 5.0%
Tau-fluvalinate	102851-06-9	0.9 to 1.0%
Citric acid	77-92-9	0.03%
Other ingredients	NA	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).

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4. FIRST AID MEASURES

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:	Unlikely to 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:	Unlikely to cause 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.

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.

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5. FIRE FIGHTING MEASURES

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):	<p>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.</p> <p>Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.</p>

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7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin. Avoid inhaling mist. 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 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 8 th edition)
Engineering Controls:	Use in well ventilated areas. Where insufficient ventilation, use suitable respiratory protection. 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.

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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.

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

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Low viscosity white liquid
Solubility:	Soluble
Specific Gravity:	0.98 – 1.01 g/ml
Flash Point:	>93 °C
pH Value:	5 – 6 @20°C
Viscosity:	#2 spindle, 12RPM: 350-600 CPS
Chemical Family:	A combination of Insecticide & Fungicide
Oxidising Agents:	Not an oxidant
Exposure Standards (TLV-TW):	Refer to section 8

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

The relevant hazard classes on ingredient:

Myclobutanil (88671-89-0): HSNO 6.1D(oral); 6.4A; 6.8B; 6.9B; 9.1B; 9.3C

Tau-fluvalinate (102851-06-9): HSNO 6.1D(oral); 6.3A; 9.1A

For the substance (final product): HSNO 6.8B; 9.1A

Skin corrosion/irritation: Unlikely to cause skin irritation.

Serious eye damage/eye irritation: Unlikely to cause eye irritation.

Respiratory or skin sensitization: Unlikely to cause skin sensitization.

Germ cell mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductivity: Suspected to be a reproductive toxicant.

Acute Toxicity: Acute oral LD₅₀ > 5000 mg/kg (rat)

Chronic Toxicity: No Chronic toxicity.

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12. ECOTOXICITY INFORMATION

Ecological information of the substance: 9.1A Very ecotoxic to the aquatic environment

Myclobutanil (88671-89-0): HSNO 9.1B; 9.3C. LC₅₀ (48h fish) = 2.4ppm; not rapid degradable and Bioaccumulative.

Tau-fluvalinate (102851-06-9): HSNO 9.1A. Daphnia magna LC₅₀ (48h fish) = 0.011 mg/l; not rapid degradable and not Bioaccumulative.

Soil Toxicity: No soil toxicity

The substance triggers the HSNO class 9.1A classification. However, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer. 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, Rail; Marine and Air

UN Number: 3082

Dangerous Goods Class: Class 9

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14. TRANSPORT INFORMATION

Hazchem Code:	3Z
Packaging Group:	III
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (ADR/RID; IMDG; IATA/ICAO)
Segregation:	None allocated

15. N.Z. REGULATORY INFORMATION

EPA HSNO Approved Number:	HSR000731
HSNO Controls:	Refer to HSR000731
HSNO Classifications:	6.8B (Suspected for causing human reproductive toxicity) 9.1A (Very ecotoxic to the aquatic environment)

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:	20 / 07 / 2017
SDS date of revision:	20 / 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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