

# SAFETY DATA SHEET

Product Name: Plant Health Spectrum Plus RTU

Print/View Date: 23/07/2020

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The logo for KIWICARE, featuring the word "KIWICARE" in a bold, white, sans-serif font with a registered trademark symbol (®) to the upper right, set against a black rectangular background.

## 1. PRODUCT AND COMPANY INFORMATION

<b>Chemical/Product Name:</b>	<b>Spectrum Plus RTU</b>
Recommended uses:	Insecticide and Fungicide
Restrictions on Use/Supply	None
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:	<a href="mailto:info@kiwicare.co.nz">info@kiwicare.co.nz</a>
Website:	<a href="http://www.kiwicare.co.nz">www.kiwicare.co.nz</a>
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
9.1A			Warning	H400	P103 P273	P391	No storage statements	P501

Signal word: WARNING

Dangerous Goods: Dangerous Goods (Class 9)

Packaging Group: III

Hazardous Substance (HSNO) Codes: 9.1A

Pictograms:



Hazard Statement: H400: Very toxic to aquatic life.

Precautionary Statements: P103: Read label before use.  
P273: Avoid release to the environment.

P391: Collect spillage.

P501: For the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. In general, dispose the unused product at an approved landfill and dispose the triple rinsed package with domestic rubbish

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Low viscosity white liquid

### Ingredients

Ingredients	CAS #	Content %
Myclobutanil	88671-89-0	0.0126
Tau-fluvalinate	102851-06-9	0.024 %
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

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## 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:	Unlikely to cause eye irritancy. 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:	Unlikely to present an inhalation hazard. 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.

## 5. FIRE FIGHTING MEASURES

HAZCHEM code:	3Z
Specific Hazards:	Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are Water, CO <sub>2</sub> , 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). 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.
Hazardous Products of Combustion:	Not known

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority.
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority.  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 and eye. Avoid inhaling mist. When handling product in drums, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Clean equipment after use. Do not contaminate drains, sewers or waterways.
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 product 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 11 <sup>th</sup> edition)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	If repeated or prolonged contact wear chemical resistant gloves.
Eye protection:	No special requirements when used as recommended.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	No special requirement when used as recommended.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General safety and hygiene measures: Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes and clothing. Store work clothing separately.

Environmental Exposure Controls: Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation.

### Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
None allocated					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White opaque liquid

Odour: No data

Odour Threshold: No data

pH Value: 5-6.5

Melting/freezing point: 0°C

Boiling point (range): 100°C

Flash Point: No data

Flammability: Not applicable

Explosive limits: No data

Vapour pressure: No data

Vapour density: No data

Relative density: 1000 g/l

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Solubility:	Soluble
Partition coefficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

## 10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Chemical/material Incompatibilities	None known
Conditions to be avoided:	Avoid excessive heating
Thermal Decomposition:	Hazardous products of combustion; see section 5 for details.

## 11. TOXICOLOGICAL INFORMATION

Hazard Classes	9.1A
Acute Toxicity:	Acute oral LD <sub>50</sub> > 5,000 mg/kg (rat). Acute dermal LD <sub>50</sub> >5,000 mg/kg (rat)
Aspiration hazard	Unlikely to cause irritation on inhalation of mist, gas, or vapour
Skin corrosion/irritation:	Unlikely to cause skin irritation and dermatitis,
Serious eye damage/irritation:	Unlikely to cause eye irritation
Respiratory or skin sensitisation:	Unlikely to cause skin sensitisation and/or contact dermatitis
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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## 11. TOXICOLOGICAL INFORMATION

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific organ toxicity – single exposure: No data available

Specific organ toxicity – repeated exposure: No data available

Narcotic effects: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## 12. ECOTOXICITY INFORMATION

Ecological information of substance: Very Toxic to aquatic life. Do not contaminate waterways, sewers, or drains when using product or packaging.

Bioaccumulation potential: BCF <1. Not likely to be Bioaccumulative

Soil Toxicity and degradability: No soil toxicity.

Mobility in soil: No data

## 13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation: Any 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 recycled or sent to landfill after cleaning if in compliance with local and national regulations.

DO NOT reuse containers.

Methods of disposal to avoid: Do not empty down stormwater system

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## 14. TRANSPORT INFORMATION

### Road, Rail; Marine and Air:

UN Number:	UN3082
UN Dangerous Goods Class:	Class 9
Hazchem Code:	3Z
UN Packaging Group:	III
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Segregation:	Not applicable

## 15. N.Z. REGULATORY INFORMATION

HSNO approval Number:	HSR101294
HSNO Classifications:	9.1A
HSNO Controls:	Refer to HSR101294
Other Controls	Tracked substance, certified handler, etc....

## 16. OTHER INFORMATION

SDS date of preparation: 23 / 07 / 2020

SDS date of revision: 23 / 07 / 2025

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](http://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.

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## 16. OTHER INFORMATION

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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