

SAFETY DATA SHEET

Product Name: Spectrum Plus - RTU

Issue Date: 28/09/2018

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1. PRODUCT AND COMPANY INFORMATION

Product Name: Spectrum Plus - RTU

Relevant identified uses: Ready to use insecticide & fungicide combination

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)

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/H410 ^m | P103 ^b P273 | P391 | No storage statements | P501 |

Dangerous Goods: Class 9; Signal word = Warning

Packaging Group: III

Hazardous Substance (HSNO) Codes: 9.1A (Very toxic to aquatic environment)

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Hazard Statement: H410/410: 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.
P273: Avoid release to the environment.
P391: Collect spillage.
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: Ready to use insecticide & fungicide

Appearance: Low viscosity white liquid

Ingredients

| Ingredients | CAS # | Content % |
|-------------------|--------------|-----------|
| Myclobutanil | 88671-89-0 | 0.0126 % |
| Tau-fluvalinate | 102851-06-9 | 0.024 % |
| Other 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).

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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 or skin sensitization. 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. Unlikely to present an inhalation hazard as the product is a stable liquid. 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.

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

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7. HANDLING AND STORAGE

| | |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling: | Avoid prolonged or repeated contact with skin and eye. Avoid inhaling vapour 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 9 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. |

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

| T Substance | CAS # | TWA | | STEL | |
|-----------------|------------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Triethanolamine | [102-71-6] | | 5 | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Low viscosity white liquid

Solubility: Soluble

Specific Gravity: ~ 1.000

Boiling Point: ~ 100 °C

Flash Point: >93 °C

pH Value: 5.00 – 6.50

Viscosity @ 20°C: #2 @ 12rpm spindle: 450-1200 CPS

Chemical Family: Insecticide & fungicide

Oxidising Agents: Not an oxidant

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

The relevant hazard classes on active ingredients:

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

Tau-fluvalinate (102851-06-9) EC 6.1D; 6.3A; 9.1A

For the substance (final product):

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: Not a reproductive toxicant.

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

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11. TOXICOLOGICAL INFORMATION

Chronic Toxicity: No chronic toxicity.

12. ECOTOXICITY INFORMATION

Ecological information on substance: 9.1A: $EC_{50}/LC_{50} \leq 1$ mg/L

Rapid degrade / Bioaccumulative potential: Myclobutanil is not bioaccumulative and it is not rapid degradable.

Soil toxicity: No

The substance has an aquatic toxicity 9.1A. In addition, 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 cause any risk 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

Hazchem Code: 3Z

Packaging Group: III

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14. TRANSPORT INFORMATION

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.

Marine pollutant: 9.1A 

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR101294

HSNO Classifications: 9.1A (Very toxic to the aquatic environment)

HSNO Controls: Refer to HSR101294

HSNO Approved codes of Practice: Refer to HSR101294

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: 06 / 09 / 2018

SDS date of revision: 06 / 09 / 2023

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 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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