

SAFETY DATA SHEET

MetiGro®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **MetiGro®**
Other Name(s): Water dispersible granule containing 700 g/kg metiram

1.2 Recommended use of the chemical and restrictions on use

Product Use: Fungicide for the control of fungal diseases in apples, pears and grapes.

1.3 Supplier contact details:

Company name: Sipcaml New Zealand Limited
Address: 20 Jean Batten Drive Mt Maunganui, 3116
Telephone: 0800 220 002
Email: info@sipcam.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996

Classifications: Eye irritation Category 2; Respiratory Sensitisation Category 1; Skin Sensitisation Category 1; Specific target organ toxicity – repeated exposure Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to terrestrial vertebrates.

2.2 Label elements:

Pictograms:



Signal Word: DANGER

Hazard statements:

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Harmful to terrestrial vertebrates.

Precautionary statements:

Prevention

P102 Keep out of reach of children.

- P103 Read label before use.
- P260 Do not breathe dust/mist/spray.
- P264 Wash hands and exposed skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves and eye protection/face protection.
- P284 In case of inadequate ventilation wear respiratory protection [cartridge fitted with filter for particulates]

Response

- P101 If medical advice is needed, have product container or label at hand.
- P312 Call a POISON CENTRE or doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice.
- P304 + P341 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
- P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- + P338
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.

Storage

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Disposal

- P501 Dispose of contents/container in accordance with local regulations.

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017:

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Metiram	9006-42-2	70
Other ingredients*	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.
*Do not affect the hazardous classification of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice, or if you feel unwell, call the NATIONAL POISON CENTRE, telephone 0800 POISON [0800 764 766] for advice. If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Contact a POISON CENTRE or doctor for advice.

IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor....

4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray or fog, foam, CO₂ or dry chemical as appropriate for surrounding materials. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products (e.g. carbon monoxide, carbon dioxide, nitrogen oxides, other unspecified compounds, smoke) may be harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing, eye/face and skin protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. Sweep up granules and place into labelled waste containers for disposal. For small liquid spills, use inert absorbent material such as sand or vermiculite and recover into labelled containers that can be sealed for safe disposal. For large spills, recover liquid into labelled containers then absorb remaining liquid and transfer to containers for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. To be used by people who are suitably trained and appropriately supervised.

Do not breathe dust/mist/spray. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves and eye protection/face protection. In case of inadequate ventilation wear respiratory protection [cartridge fitted with filter for particulates]. Do not apply into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

7.2 Conditions for safe storage

Store in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from food, drink and animal feedstuffs.

Storage of 100 kg or more of this product requires an emergency response plan, secondary containment and signage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)
Particulates, not otherwise classified	10 3 (respirable)	

No biological limits applicable.

8.2 Engineering controls

Use outdoors or in a well-ventilated area.

8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Eye/Face Protection: Wear chemical goggles.

Skin Protection: Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

Respirator: Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and dust or mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for particulates.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige-brown granule
Odour	Slight
Odour threshold	Not known
pH	4.5 – 7.5 range
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/relative density	No data available
Solubility	Dispersible in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Viscosity	Not applicable
Particle characteristics	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Avoid storage in direct sunlight.

10.4 Incompatible materials and possible hazardous reactions

Incompatible with explosives (class 1), oxidising gases, oxidising liquids, oxidising solids, organic peroxides

10.5 Hazardous decomposition products

Fire Decomposition: Carbon dioxide, carbon monoxide, nitrogen oxides, smoke and possible other unspecified compounds.

10.6 Polymerisation

Not known to occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

11.2 Toxicological information

Acute toxicity:	Not classified.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Classified as both a respiratory and skin sensitizer.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredient identified as suspected of causing cancer.
Reproductive toxicity	No ingredients in product identified as suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Classified as a specific target organ toxicant (prolonged or repeated exposure)
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

11.3 Toxicological data: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as very toxic to aquatic life and hazardous to terrestrial vertebrates.

12.2 Environmental Fate

Breakdown in soil and groundwater: Rapidly biodegradable.

Bioaccumulation: Low potential.

Partition coefficient (octanol/water): Not available

Soil mobility: Low

12.3 Ecotoxicity data:

Metiram	Algae: <i>Pseudokirchmeriella subcapitata</i> EC ₅₀ (72 h) growth 0.191 mg/L
	Fish: Rainbow trout LC ₅₀ (96 h) 0.336 mg/L
	Crustacea: <i>Daphnia magna</i> LC ₅₀ 0.584 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

13.2 Container Disposal

Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill. Ensure packaging does not contaminate waterways.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	3077
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS 70% METIRAM)
Transport hazard class(es)	9
Packing Group:	III
HAZCHEM:	2Z
Special Precautions for User:	-
IMDG Marine pollutant:	YES
Transport in Bulk:	-

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Classification) Notice 2020.

HSNO Approval number: HSR000482: Water dispersible granule containing 700 g/kg metiram.

Hazard classifications:	Eye irritation Category 2; Respiratory Sensitisation Category 1; Skin Sensitisation Category 1; Specific target organ toxicity – repeated exposure Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to terrestrial vertebrates.
Record of application:	If 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to 48(3) of Hazardous Substances (Hazardous Property Controls) Notice 2017 for details of records to be kept.
Qualifications	Required for mixing, loading and application.
HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Signage Trigger Quantity (Schedule 3)	100 kg
Emergency Response Plan (Schedule 5)	100 kg
Secondary Containment (Schedule 16)	100 kg
Tracking (Schedule 26)	Not required
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None set
International Agreements	Not applicable
Other Information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)
ACVM Registration:	Registered pursuant to the Agricultural Compounds and Veterinary Medicines Act 1997; registration number P009737

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	23 March 2025
SDS supersedes	26 March 2020
Reason issued	Update to GHS.

16.2 ABBREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms



HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC₅₀	Median Lethal Concentration
LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

EPA CCID and Approved Substance databases

16.4 OTHER

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End of Safety Data Sheet