

SAFETY DATA SHEET

Issue Date 10 January 2019

Revision Date 10 January 2019

Version 1

Section 1: IDENTIFICATION: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name **TOPSIN M-4A**

Other means of identification

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(Thiophanate methyl)

UN Number 3082

Recommended use of the chemical and restrictions on use

Recommended Use Systemic fungicide

Details of manufacturer or importer

Manufacturer

Lonza NZ Ltd
13 – 15 Hudson Road,
Bell Block,
New Plymouth, 4312
New Zealand
Telephone: +64 6 755 9234
Fax: +64 6 755 1174
Web site: www.lonza.co.nz

Supplier

Bell Booth Ltd
15 Tiki Place
Palmerston North, 4442
New Zealand

Telephone: +64 6 355 3377

Web site: <http://www.bell-booth.co.nz>

Emergency telephone number

Emergency Telephone 0800 CHEMCALL (0800 243 622)
International Emergency Telephone +64 3 353 0199

Section 2: HAZARDS IDENTIFICATION

EPA New Zealand HSNO Approval Code or Group Standard HSR000486

HSNO Chemical Classification 6.1D (All), 6.1D (I), 6.5B, 6.6B, 9.1A (All), 9.1A (A), 9.1B (F), 9.1B (C), 9.2B

GHS Classification

Acute toxicity: inhalation	Category 4 – (H332)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 2– (H341)
Aquatic toxicity – Acute	Category 1 - (H400)
Aquatic toxicity – Chronic	Category 1 - (H410)

Label elements



Signal Word Warning

Hazard Statements

H332 – Harmful if inhaled.

H317 – May cause an allergic skin reaction.

H341 – Suspected of causing genetic defects.

H412 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye and face protection.

Contaminated clothing should not be allowed out of the workplace.

Avoid release to the environment.

Precautionary Statements - Response

Specific treatment (see Section 4 - First Aid on this SDS).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER (0800 764 766) or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Wash with plenty of water/shower.

Take off all contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal facility.

Other hazards

Toxic to the soil environment.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**Substance**

Chemical nature Mixture

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>
Thiophanate methyl	23564-05-8	35
Other ingredients	Proprietary	Balance

Section 4: FIRST-AID MEASURES**Description of first aid measures**

General advice The following are required:
Running Water
Emergency shower, hand wash, soap

Ingestion	If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
Eye Contact	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Skin Contact	Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue for at least 15 minutes. Wash clothing before reuse.
Inhalation	Avoid inhalation of spray or mists which are likely to be irritating. Remove to a source of fresh air and seek medical advice.
Self-protection of the first aider	First aider: Pay attention to self-protection. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protection recommended in Section 8.
Notes to physicians	No specific antidote. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical or CO₂.

Large Fire Water spray or fog.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapours

Do not allow run-off from fire-fighting to enter drains or water courses

Hazardous combustion products: Oxides of sulphur. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Hazchem code •3Z

Legend IERG Code: 47

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Dispose of contents/container to an approved waste disposal plant.

Methods and material for containment and cleaning up**Methods for containment**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Avoid dust formation. Pick up and transfer to properly labelled containers. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

Precautions to prevent secondary hazards**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE**Precautions for safe handling****Advice on safe handling**

Harmful - Keep out of reach of children.

Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. When using do not eat, drink or smoke. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. Wash contaminated clothing before reuse.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in original container in a cool, well ventilated place, away from direct sunlight and extreme heat. Keep container tightly closed and away from food or food related materials.

Incompatible materials

Incompatible with strong oxidising agents.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure Limits**

No TELs or EELs have been set by NZ EPA at this time.

Appropriate engineering controls

Engineering Controls Showers
 Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.

Hand Protection

Wear Chemical resistant gloves, the selected protective gloves have to satisfy the specifications of AS 2161. Suitable material: Nitrile rubber. Break through time >480 min. Gloves must be inspected prior to use. Replace when worn.

Skin and body protection

Wear suitable protective clothing. Clothing material compliant with AS 4501, and footwear compliant with AS/NZS 2210 are recommended.

Respiratory protection

Not normally required. Ensure adequate ventilation, especially in confined areas.

In case of inadequate ventilation wear respiratory protection.

AS/NZS 1716:2012: Respiratory protective devices

AS/NZS 1715:2009: Selection, use and maintenance of respiratory protective equipment

Environmental exposure controls

No EEL values are set at this time.

Do not allow into any sewer, on the ground or into any body of water.

Hygiene/Other Precautions

Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Colour	White – cream suspension
Odour	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.5	5% dilution in water
Melting point / freezing point		No information available
Boiling point / boiling range		No information available
Flash point	Not applicable	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		No information available
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density	1.148	@ 20 °C

Water solubility		No information available
Solubility(ies)	Dispersable in water	
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available
Other Information		
VOC Content (%)		No information available
Bulk density		No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions

None known. Stable under normal conditions.

Conditions to avoid

No data available.

Incompatible materials

Strong acids, alkalis and oxidising agents.

Hazardous Decomposition Products

No decomposition if stored normally.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation Harmful if inhaled. Avoid breathing mists.

Eye contact Avoid contact with eyes.

Skin contact May cause skin sensitization. Avoid contact with skin.

Ingestion Do not taste or swallow.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document, EU Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

ATEmix (oral) >5 000 mg/kg
ATEmix (dermal) >2 000 mg/kg

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thiophanate methyl	7500 mg/kg (RT)	>10 000 mg/kg (RT)	1.7 mg/L (RT) 4h

RT = Rat

RBT = Rabbit

MSE = Mouse

GP = Guinea Pig

V = Vapour

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Not classified.

Serious eye damage/eye irritation

Not classified.

Sensitization

May cause an allergic skin reaction and allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified..

Specific Target Organ Toxicity [STOT] - single exposure

Not classified.

Specific Target Organ Toxicity [STOT] - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

LC50: Lethal Concentration to 50% of a test population

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Thiophanate methyl	> 0.95 mg/l EC50 5 d (<i>Pseudokirchneriella subcapitata</i>)	16 mg/L LC50 96h (<i>Lepomis macrochirus</i>)	4.2 – 9.5 mg/L EC50 48h (<i>Daphnia magna</i>)

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

Toxic to the soil environment.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

Dispose of product only by using according to this label, or at an approved disposal facility in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill. DO NOT burn empty containers or product.

Section 14: TRANSPORT INFORMATION

Land Transport

UN Number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Hazard Class	9
Packing Group	III
Environmental hazard	Yes
Special Provisions	Do not carry more than 1 litre of this product on a passenger service vehicle.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Thiophanate methyl), 9, III
Hazchem code	•3Z
IERG Code	47

IMDG

UN/ID no	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Hazard Class	9
Packing Group	III
Special Provisions	Not applicable
Marine pollutant	Yes
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Thiophanate methyl), 9, III

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

New Zealand

- This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO) 1996.
- The product must be under the control of a suitably qualified person as described in the HPC Notice 2017 - Part 4 Subpart C.
- A written record of use, as per HPC Notice 2017 - Part 4 Clause 48, is required if 3 kg or more of this product is used within 24 hours in a place where:
 - a) public may lawfully be present; or

b) the substance is likely to enter air or water supply and leave the place where it is under control.
The information must be kept for a minimum of three [3] years.

- Do not apply into or onto water.

See section 8 for national exposure control parameters.

EPA New Zealand HSNO Approval Code or Group Standard: HSR000486

Chemical Name	HSNO Chemical Classification
Thiophanate methyl	6.1D (I), 6.1D (All), 6.1E (O), 6.5B, 6.6B, 9.1A (All), 9.1A (A), 9.1B (F), 9.1B (C), 9.2B

Approved pursuant to the ACVM Act 1997: No: P002893. See www.foodsafety.govt.nz for registration conditions.

Section 16: OTHER INFORMATION

Issue Date 10 January 2019
Revision Date 10 January 2019
Revision Note First issue in new format.

Key or legend to abbreviations and acronyms used in the safety data sheet

AS	Australian Standards
AS/NZS	Australian/New Zealand Standards
ATEmix	Acute Toxicity Estimate of mixture, calculation of toxicity of the mixture according to the EU Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS	Chemical Abstracts Service (Registry Number)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals, a globally harmonized system for classification and labelling of chemicals proposed by the United Nations.
HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
HPC Notice	Hazardous Substances (Hazardous Property Controls) Notice 2017. This notice is issued by the Environmental Protection Authority ("Authority") under sections 75 and 76 of the Hazardous Substances and New Organisms Act 1996 ("Act"). It is issued in accordance with section 76C of the Act, having had regard to the matters specified in section 76C(2).
IERG	Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB 76:2010 Standards Australia/Standards New Zealand).
IMDG	International Maritime Dangerous Goods Code for transport by sea.
LC50	LC stands for lethal concentration which causes the death of 50% (one half) of a group of test population.
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet