

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: FoliaStim® B Mo Liquid
 Product No:
 Product Use: Fertiliser
 Restrictions of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury, 2113

Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 28 November 2023

Section 2. Hazards Identification

Classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.

EPA Approval No: Fertiliser (subsidiary) – HSR002571

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code Prevention Statement

P103	Read label before use.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response Code Response Statement

P310	Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code Storage Statement

None allocated	
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Disposal Code Disposal Statement

P501	Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.
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Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Boron ethanolamine, ionic mixture with potassium hydroxide	12 - 14	Mixture
Non hazardous	To 100%	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist.
If on Skin	Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. If on skin, take off contaminated clothing. If on skin and if skin irritation or rash occurs, seek medical advice and attention.
If Swallowed	If victim conscious and alert, give 1-2 glasses of water to drink. Do NOT induce vomiting. Get medical advice/attention. Ingestion of large quantities: immediately to hospital.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Nausea. Vomiting.
Inhalation:	Slight irritation. Exposure to high concentrations: irritation of the respiratory tract, dry/sore throat, coughing, respiratory difficulties.
Skin:	Causes skin irritation. Red skin. Irritation. Itching. On continuous/repeated exposure/contact: dry skin, skin rash/inflammation.
Eye:	Direct contact with the eyes can cause irreversible damage, including blindness. Pain, redness, itching, tears.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable, Non-combustible.
Hazards from decomposition products	With sustained heating, hazardous decomposition products may be released, such as ammonia, carbon monoxide, carbon dioxide, metallic oxides, nitrogen oxides.
Suitable Extinguishing media	Use fire extinguishing methods suitable for the surrounding conditions Do not use a heavy water stream.

Precautions for firefighters and special protective clothing	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Keep upwind, consider evacuation and have neighbourhood close doors and windows. Dilute toxic gases with water spray.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear protective gloves/protective clothing/eye protection as advised in section 8. Prevent generation of mists /aerosols. Ensure adequate air ventilation. Keep away from naked flames/heat. Do not get in eyes, on skin, or on clothing. Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Stop leaks if possible. Prevent spreading in sewers. Prevent soil and water pollution. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Any spillage should be cleaned up immediately. Collect spill in closed and suitable containers for disposal. Take up rest of liquid spill into absorbent material (sand, earth, vermiculite). Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. For any concern related to disposal consult section 13.

Section 7. Handling and Storage

Handling

- Read label before use.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.
- Do prevent generation of mists /aerosols.
- Do not breathe vapor or mist.
- Use sufficient ventilation.
- Do not get in eyes, on skin, or on clothing.
- Do not eat, drink or smoke during use.
- Always wash hands after handling the product.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Do not discharge waste into the drain.

Storage

- Store away from strong oxidizing agents, strong reducing agents, acids, (strong) bases.
- Keep preferably in the original container.
- Storage temp: Minimum: 10°C Maximum: 30°C
- Keep substance away from: heat sources.
- Store in dry, cool, well-ventilated area. Keep out of direct sunlight. Protect against frost.
- Keep packaging closed when not in use. Secure fragile packaging's in solid containers.
- Packaging materials: Suitable material: synthetic material, HDPE, stainless steel.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Product Name: FoliaStim® B Mo Liquid Date of SDS: 28 November 2023	SDS Prepared by: Technical Compliance Consultants (NZ) Ltd www.techcomp.co.nz Tel: 64 9 475 5240			

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

No particular/specific measures required. Good practice advice: Ensure good ventilation of the work station. Provide eyewash stations at the workplace.

Personal Protective Equipment



Eyes	Safety glasses.
Hands and Skin	Protective clothing. Chemical resistant safety shoes. Gloves in accordance with European standard EN-16523-1. Material: Natural rubber, Latex, Butyl rubber, Polyvinylchloride (PVC) . Permeation: 6 (> 480 minutes) Thickness (mm): 0.5 Standard: EN-16523-1 Type: Reusable gloves Material: Nitrile rubber (NBR) Permeation: 6 (> 480 minutes) Thickness (mm): 0.35 Standard: EN-16523-1 Type: Reusable gloves Material; Fluoroelastomer (FKM) Permeation: 6 (> 480 minutes) Thickness (mm): 0.4 Standard: EN-16523-1
Respiratory	Ensure adequate air ventilation. Mist formation: aerosol mask with filter type P2

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Dark Brown
Odour	Characteristic
Odour Threshold	Not available
pH	9 – 11
Boiling Point	100°C
Crystallization Point	10°C
Melting/Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Density	1.09 kg/L
Relative Density @ 20°C	Not available
Solubilities	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available

Particle Characteristics	Not available
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Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. May sediment slightly after some time.
Conditions to Avoid	Avoid high temperatures. Temperatures lower than 10°C.
Hazardous Reactions	This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.
Incompatible Materials	Keep substance away from: acids, strong bases, strong oxidizing agents, strong reducing agents.
Hazardous Decomposition Products	With sustained heating, hazardous decomposition products may be released, such as ammonia, carbon monoxide, carbon dioxide, metallic oxides, nitrogen oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Not hazardous to the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty and rinsed containers can be disposed of as non-hazardous material or be returned for recycling. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Precautions and methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

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EPA Approval Code: Fertiliser (subsidiary) – HSR002571

Trigger quantities:

HSWA & EPA Controls	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	10 000L
Secondary Containment	10 000L
Restriction of Use	None

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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