

Date of issue: 5 August 2019
 Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet

FIL TROUGH TABLET

Classified as: Hazardous according to the EPA Hazardous Substances
 (Minimum Degrees of Hazard) Notice 2017.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: FIL Trough Tablet

Supplier: FIL is a wholly owned subsidiary of
 GEA Farm Technologies New Zealand Ltd

Address: 72 Portside Drive
 Mt Maunganui 3116
 New Zealand

Phone: +64 7 575 2162

Website: www.fil.co.nz

Recommended Use: Control of algae in water troughs

In Case of Emergency Contact:

CHEMCALL: 0800 CHEMCALL (243 622)

Section 2: HAZARDS IDENTIFICATION

Classified as a Dangerous Good for Transport.

Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

HSNO APPROVAL NUMBER: **HSR002685**

HSNO CLASSIFICATIONS: 6.1C – Acutely toxic, oral
 6.3A – Skin irritant
 6.5B – Skin sensitiser
 6.9B – Harmful to human target organs or systems
 8.3A – Eye corrosive
 9.1A – Very ecotoxic in the aquatic environment
 9.3B – Ecotoxic to terrestrial vertebrates

GHS Classification: Acute toxicity, oral – Category 3
 Skin corrosion/irritation – Category 2
 Serious eye damage/eye irritation – Category 1
 Skin sensitisation – Category 1
 Specific target organ systemic toxicant, single exposure – Category 2
 Aquatic toxicity (acute and chronic) – Category 1

Note: There is no GHS equivalent for terrestrial vertebrate toxicity.

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Hazard Statements:

- H301 Toxic if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction
- H371 May cause damage to organs via ingestion or inhalation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H432 Toxic to terrestrial vertebrates

GHS Pictograms:



DANGER

PREVENTION STATEMENTS:

- P102 Keep out of reach of children
- P103 Read Label before use.
- P260 Do not breathe mist/spray.
- P264 Wash hands, exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment
- P280 Wear protective gloves, protective clothing, and eye/face protection.

RESPONSE STATEMENTS:

- P101 If medical advice is needed, have product container or label at hand.
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
- P321 Specific treatment (refer to first aid instructions on this label).
- P330 Rinse mouth.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P362 Take off contaminated clothing and wash before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTRE or doctor.
- P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor.
- P391 Collect spillage.

STORAGE:

- P405 Store locked up.

DISPOSAL:

In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Copper sulphate	7758-98-7	50-70%
Zinc sulphate	7733-02-0	10-30%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required: Eye wash and safety shower facilities should be provided.

If Inhaled: Not an expected route of exposure under normal conditions of storage and use.

In Contact with Eye: Hold eyes open, flush with water for at least 15 minutes. Seek immediate medical attention.

In Contact with Skin: Wash skin with plenty of water. Seek medical attention if skin irritation develops and persists.

If Swallowed: DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is not flammable or combustible.

Suitable Extinguishing Media: Use extinguisher suitable for surrounding environment and materials.

Precautions in Connection with Fire: May release toxic fumes during a fire.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 100kg.

Precautions: Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid release to the environment.

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Suitable Protective Equipment: Emergency responders should use personal protective equipment, including gloves, protective clothing and safety glasses.

Spill or Leak Procedures: Contain spill and collect into a properly labelled waste container for disposal. Residual quantities may be washed away with large quantities of water.

Waste Disposal Methods: Dispose of as per Section 13.

Emergency preparation: Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid generating dust. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.

Storage: Keep out of reach of children. Store locked up. Store in a cool, dry place, away from heat and direct sunlight. Product is hygroscopic, protect from moisture. Store away from food and animal feed.

Site Storage Requirements: Site Signage will be required when quantities exceed 100kg.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ: No Workplace Exposure Standards have been established for this product. A Workplace Exposure Standard has been set for the following ingredient:

Copper (dust): TWA 1 mg/m³

Engineering Controls: Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Natural ventilation should be adequate under normal conditions of use.

Personal Protective Equipment: Observe good chemical hygiene practice.

Hand protection: Wear protective gloves. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.

Skin and body protection: Protective clothing is recommended if handling large quantities. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

Eye protection: Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.

Respiratory protection: Not required under normal conditions of storage and use.

Other information: Handle in accordance with safe industrial hygiene practices.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid disc	Colour:	Blue/green
Odour:	Odourless	Odour Threshold:	Not applicable
pH:	Not applicable	Solubility:	Completely soluble
Melting/Freezing Point:	Not available	Boiling Point:	Not available
Flash Point:	Not applicable	Flammability:	Not flammable
Lower/Upper Flammability Limits:	Not applicable	Vapour Pressure:	Not applicable
Vapour Density:	Not applicable	Relative Density:	Not available
Partition Coefficient:	Not available	Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not available	Kinematic Viscosity:	Not available

Section 10: STABILITY AND REACTIVITY

Stability:	Product is hygroscopic and will absorb moisture.
Reactivity:	No dangerous reactions known.
Conditions to Avoid:	Avoid breaking down tablet and generating dust/powder. Avoid forming highly concentrated solutions.
Incompatibility:	Keep away from strong oxidisers.
Hazardous Decomposition:	May decompose on heating to release toxic fumes.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	LD50 oral > 50 - ≤ 300 mg/kg. LD50 dermal > 5000 mg/kg LC ₅₀ inhalation (mist/spray) > 5.0 mg/L
Inhalation:	Not an expected route of exposure.
Ingestion:	Toxic if swallowed. May cause nausea, vomiting, and may cause damage to organs.
Skin Contact:	Skin irritant
Eye Contact:	Eye corrosive.
Sensitiser:	Contact sensitiser. May cause an allergic skin reaction.

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Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant No chronic toxicity effects expected.

Specific Target Organ Systemic Toxicity: Harmful to human target organs or systems, via ingestion and/or inhalation.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Very ecotoxic in the aquatic environment. Ecotoxic to terrestrial vertebrates. Avoid release to the environment.

Persistence/degradability: Product is not rapidly degradable.

Bioaccumulation: Not available

Mobility: Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.

Disposal of Packaging: Dispose of packaging via an approved waste disposal contractor.
 Avoid contamination of natural water supplies with chemical or empty container.

Section 14: TRANSPORT INFORMATION

Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.



NZS5433:2012
 UN No: 3288
 Proper Shipping Name: Toxic solid, inorganic, n.o.s. (contains copper sulphate)
 Class: 6.1
 Packing Group: III
 Environmentally hazardous: Yes
 Hazchem Code: 2Z

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IMDG:

UN No: 3288
 Proper Shipping Name: Toxic solid, inorganic, n.o.s. (contains copper sulphate)
 Class: 6.1
 Packing Group: III
 Marine Pollutant: Yes
 EmS: F-A, S-A

IATA:

UN No: 3288
 Proper Shipping Name: Toxic solid, inorganic, n.o.s. (contains copper sulphate)
 Class: 6.1
 Packing Group: III
 Environmental hazard: Environmentally hazardous

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Water Treatment Chemical (Toxic 6.1)

HSNO Approval Code: HSR002685

HSNO Classifications:

6.1C	Acutely toxic, oral
6.3A	Skin irritant
6.5B	Skin sensitiser
6.9B	Harmful to human target organs or systems
8.3A	Eye corrosive
9.1A	Very ecotoxic in the aquatic environment
9.3B	Ecotoxic to terrestrial vertebrates

This substance triggers:	Compliance Certificate	1,000kg (or 3,500kg on a farm of not less than 4 hectares)
	Certified Handler	N/A
	Emergency Response Plan	100kg
	Secondary Containment	N/A
	Signage	100kg

This substance is not required to be Tracked but is restricted to workplaces only. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information

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in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a water treatment chemical. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 5/08/2019

Reason for Revision: Update to New Zealand regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

END OF SAFETY DATA SHEET