

Date of issue: 21 March 2024  
 Revised by: Simonne Moses - HSNO Consultant SDS No: 2

# Safety Data Sheet

## FIL TROUGH TABLET

Classified as: Hazardous according to the EPA Hazardous Substances  
 (Hazard Classifications) Notice 2020.

### 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](http://www.fil.co.nz)

**Recommended Use:** Control of algae in water troughs. Product is restricted to workplaces only.

**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 (Hazard Classifications) Notice 2020.

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, repeated exposure  
 8.3A – Eye corrosive  
 9.1A – Very ecotoxic in the aquatic environment, acute  
 9.1A - Very ecotoxic in the aquatic environment, chronic

GHS Classification: Acute toxicity, oral – Category 3  
 Skin irritation – Category 2  
 Serious eye damage – Category 1  
 Skin sensitisation – Category 1  
 Specific target organ toxicant, repeated exposure – Category 2  
 Hazardous in the aquatic environment, acute – Category 1  
 Hazardous in the aquatic environment, chronic – Category 1

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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
- H373 May cause damage to organs (kidneys, liver) through prolonged or repeated exposure via ingestion or inhalation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

**GHS Pictograms:**



**DANGER**

**PREVENTION STATEMENTS:**

- P102 Keep out of reach of children.
- 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:**

- 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 + P364 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:**

P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Dispose of via an approved waste disposal contractor. Refer to Section 13 of the SDS.

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### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Water treatment tablet.

Main Component	CAS Number	Concentration (%wt)
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 continuously with water for at least 20 minutes. Seek immediate medical attention. Continue flushing until told to stop by a medical professional.

**In Contact with Skin:** Remove contaminated clothing. Wash skin with plenty of water. Seek medical attention if skin irritation develops and persists. Wash clothing before reuse.

**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. Corrosive to eyes. Ophthalmological opinion should be sought for burns to eyes.

### 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. Avoid release to drains and waterways.

### Section 6: ACCIDENTAL RELEASE MEASURES

**An emergency response plan meeting the requirements of Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 is required 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 (respirable dust): TWA 0.01 mg/m<sup>3</sup> (dermal sensitiser)

**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 e.g., PVC. 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:** PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

## Section 10: STABILITY AND REACTIVITY

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

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Exposure

<b>Acute Toxicity:</b>	LD50 oral > 50 - ≤ 300 mg/kg. LD50 dermal > 5000 mg/kg LC <sub>50</sub> inhalation (mist/spray) > 5.0 mg/L
<b>Inhalation:</b>	Not an expected route of exposure.
<b>Ingestion:</b>	Toxic if swallowed. May cause nausea, vomiting, and may cause damage to organs.
<b>Skin Corrosion/Irritation:</b>	Not a skin corrosive. Skin irritant. May cause redness, itching.
<b>Serious Eye Damage/Eye Irritation:</b>	Corrosive to eyes. May cause corneal burns.
<b>Respiratory or Skin Sensitisation:</b>	Not known to cause respiratory sensitisation. Product is a contact sensitizer and may cause an allergic skin reaction.

### Chronic Exposure:

<b>Mutagen/Carcinogen/Reproductive Toxicant</b>	No chronic toxicity effects expected.
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**Specific Target Organ Toxicity Single Exposure:** No information available. No known effects.

**Specific Target Organ Toxicity Repeated Exposure:** Ingestion or inhalation over prolonged periods or repetitive exposure may cause damage to kidneys and liver.

**Aspiration Hazard:** No information available. Not expected to be an aspiration hazard.

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 with both short term and long-term effects.  
 LC/EC<sub>50</sub> >1 mg/L

**Persistence/degradability:** Product is not rapidly degradable.

**Bioaccumulation:** Not available

**Mobility in soil:** No information available.

**Other adverse effects:** None identified.

**Ingredients with Ecotoxic classifications:** Copper sulphate and zinc sulphate are both classified as very toxic to aquatic life with both acute and chronic effects.

Ecotoxicity data is based on information in the EPA Chemical Classification and Identification Database.

**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 the product or empty container.

**Section 14: TRANSPORT INFORMATION**

Classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.



NZS5433:2020  
 UN No: 3288  
 Proper Shipping Name: Toxic solid, inorganic, n.o.s. (contains copper sulphate)  
 Class: 6.1

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Packing Group: III  
 Environmentally hazardous: Yes  
 Hazchem Code: 2X

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**

<b>Group Standard Allocation:</b>	Water Treatment Chemical (Toxic 6.1)	
<b>HSNO Approval Code:</b>	HSR002685	
<b>Classifications:</b>	Acute toxicity, oral – Category 3 Skin irritation – Category 2 Serious eye damage – Category 1 Skin sensitisation – Category 1 Specific target organ toxicant, repeated exposure – Category 2 Hazardous in the aquatic environment, acute – Category 1 Hazardous in the aquatic environment, chronic – Category 1	
<b>NZ Inventory of Chemicals:</b>	All ingredients are listed in the NZ Inventory of Chemicals.	
<b>This substance triggers:</b>	Compliance Certificate less	1,000kg (or 3,500kg on a farm of not 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. This substance is restricted to workplaces only. Suppliers need to comply with the requirements of Clause 13 of the EPA Hazardous Substances (Hazardous Property Controls) Notice.

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.

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## 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 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: 21/03/2024  
Supersedes: 5/08/2019  
Reason for Revision: 5-year review and update.

### References:

EPA NZ Chemical Classification and Information Database  
EPA Guide: Guide to Classifying Hazardous Substances in New Zealand, Version 1

Summary of Abbreviations: EPA – Environmental Protection Authority  
GHS – Global Harmonisation System  
CAS – Chemical Abstracts Service  
TWA – Time Weighted Average

**END OF SAFETY DATA SHEET**