Safety Data Sheet
FIL C3

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

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: FIL C3

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: Sanitiser, Water treatment

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: **HSR002681**

HSNO CLASSIFICATIONS: 6.1E – Acutely toxic (low hazard)
8.2B – Corrosive to dermal tissue
8.3A – Corrosive to ocular tissue
9.1A – Ecotoxic in the aquatic environment

GHS Classification: Acute toxicity (oral, dermal, inhalation) – Category 5
Aspiration hazard – Category 1
Skin corrosion/irritation – Category 1B
Serious eye damage – Category 1
Acute aquatic toxicity – Category 1
Chronic aquatic toxicity – Category 1

Hazard Statements:

H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H333 May be harmful if inhaled.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

GHS Pictograms:



DANGER

PREVENTION STATEMENTS:

P102 Keep out of reach of children.
P103 Read label and safety data sheet before use.
P260 Do not breathe vapours or spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves, protective clothing, and eye and face protection.
P273 Avoid release to the environment.

RESPONSE STATEMENTS:

P101 If medical advice is needed, have product container or label at hand.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately dilute with a glass of water.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P302+P352 IF ON SKIN (or hair): Wash with plenty of soap and water. Immediately remove all contaminated clothing.
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If irritation or discomfort persists, call a POISON CENTRE or doctor.
P390 Absorb spillage to prevent material damage.

STORAGE:

P405 Store locked up. Store in a cool place out of direct sunlight.

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.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Water treatment solution

Main Component	CAS Number	Concentration (%wt)
Sodium hypochlorite	7681-52-9	10-20%

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:	Remove to fresh air. Seek medical attention if symptoms persist.
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 immediate medical attention. 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. Substance is alkaline and may continue to cause damage several hours after exposure.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Product is not flammable or combustible.
Suitable Extinguishing Media:	Use water spray or fog, foam, dry chemical powder, or carbon dioxide. Remove containers from path of fire if safe to do so. Cool exposed containers with water spray from a safe location.
Precautions in Connection with Fire:	May give off toxic and corrosive fumes in a fire. Fumes may contain hydrogen chloride.
Advice for firefighters:	Wear full firefighting gear and self-contained breathing apparatus. Prevent spills from entering drains and water courses.

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 10,000 L.

Precautions:	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid generating mist/spray.
Suitable Protective Equipment:	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection.
Spill or Leak Procedures.	CAUTION: Slippery when spilt. Stop leak if safe to do so. Contain the spill. Prevent the spill from entering drains, waterways, or sewers. Spills may be neutralised with a suitable dilute or weak acid. Use inert material such as sand, earth, or vermiculite to absorb spill. Collect spilled material and place in a suitable, clean, chemical waste container. Ensure waste container is properly labelled.
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 mists/sprays. 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 closed container. Keep away from heat and direct sunlight. Store away from food and animal feed.

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

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ: No Workplace Exposure Standards have been established for this product.

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. Use in a well-ventilated area. If natural ventilation is insufficient consider engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.

Personal Protective Equipment: Observe good chemical hygiene practice.

Hand protection: Wear protective gloves that are resistant to the product, e.g. PVC. Gloves should be elbow length. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.

Skin and body protection: Use protective overalls and PVC apron. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

Eye protection: Use chemical safety goggles to protect eyes. When handling bulk quantities where there may be a risk of splashing, a face shield may also be used along with eye protection to protect the face. Refer to AS/NZS 1336 for suitable eye and face protection.

Respiratory protection: Where there is inadequate ventilation and use results in the formation of mist/vapours/spray, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. A full-face respirator with chlorine cartridges (for protection against any liberated chlorine gas) is recommended.

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Colour:**	Pale yellow, clear
Odour:	Odourless	**Odour Threshold:**	Not applicable
pH:	11	**Solubility:**	Completely miscible
Melting/Freezing Point:	15.5°C (MP)	**Boiling Point:**	111°C
Flash Point:	Not applicable	**Flammability:**	Not flammable

Lower/Upper Flammability Limits:	Not applicable	**Vapour Pressure:**	Not available
Vapour Density:	Not available	**Relative Density:**	1.24
Partition Coefficient:	Not available	**Auto-ignition Temperature:**	Not applicable
Decomposition Temperature:	Not available	**Kinematic Viscosity:**	Not available
Particle Characteristics:	Not applicable		

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Reactivity: Reacts exothermically with acids. May produce toxic gases on contact with acids.

Conditions to Avoid: Avoid generating mists/sprays. Avoid excessive heat. Substance is light sensitive.

Incompatibility: Incompatible with strong oxidisers, acids, reducing agents, metals, amines, ammonium compounds, methanol, aziridine, and phenylacetonitrile.

Hazardous Decomposition: Decomposition may result in formation of hydrogen chloride.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity: Classified as acutely toxic – Category 5 (may be harmful by the oral, dermal, and inhalation routes) in accordance with the approved product classification.

Inhalation: May be harmful if inhaled. Inhalation of mist/spray may cause irritation to the mucous membranes and respiratory tract.

Ingestion: May be harmful if swallowed. May be fatal if swallowed and enters airways (aspiration hazard). Ingestion may cause chemical burns to the mouth and gastrointestinal tract and may cause nausea, diarrhoea, and vomiting.

Skin Corrosion/Irritation: Product is corrosive to skin and may cause chemical burns.

Serious Eye Damage/Eye Irritation: Product is corrosive to eyes. May cause corneal damage and permanent injury.

Respiratory or Skin Sensitisation: Not expected to be a respiratory or contact sensitiser.

Chronic Exposure:

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

Specific Target Organ Toxicity Single Exposure: No information available. No known effects.

Specific Target Organ Toxicity Repeated Exposure: No information available. No known effects.

Aspiration Hazard: Classified as an aspiration hazard – Category 1. May be fatal if swallowed and enters airways.

Classification is based on the approved product classification and information in the EPA Chemical Classification and Identification Database.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life with long lasting effects. Prevent entry to drains, waterways, and sewers.

Sodium hypochlorite:
Fish LC50 (96 h): 0.03 – 0.19 mg/L (Oncorhynchus mykiss);
0.06 – 0.11 mg/L (Pimephales promelas)
Crustacea EC50 (48 h): 0.033 – 0.044 mg/L (Daphnia magna)

Persistence/degradability: No information available.

Bioaccumulation: Not expected to bioaccumulate.

Mobility in soil: No information available.

Other adverse effects: None identified.

Ingredients with Ecotoxic classifications: Sodium hypochlorite is classified as very toxic to the aquatic environment with acute and chronic effects (Aquatic Acute 1, M-factor 10; Aquatic Chronic 1). At the concentration present in this product, the mixture classification thresholds are exceeded and the product is classified as Acute Aquatic Toxicity Category 1 and Chronic Aquatic Toxicity Category 1 (H410).

Ecotoxicity data is based on sodium hypochlorite raw material data and information in the EPA Chemical Classification and Identification Database.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. Waste product may be treated with dilute acid prior to disposal so it is no longer hazardous. Dispose of waste product via an approved waste disposal contractor. Do not allow waste product to enter drains, waterways, or sewers.

Disposal of Packaging: Packaging may contain product residues and should be treated as hazardous. Where possible return to supplier for reuse/recycling. Dispose of packaging via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

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



NZS5433:2020
UN No: 1791
Proper Shipping Name: Hypochlorite Solution
Class: 8
Packing Group: III
Environmental hazard: Yes
Limited Quantity: 5L
Hazchem Code: 2X

IMDG:
UN No: 1791
Proper Shipping Name: Hypochlorite Solution
Class: 8
Packing Group: III
Marine Pollutant: Yes
EmS: F-A, S-B
Limited Quantity: 5L

IATA:
UN No: 1791
Proper Shipping Name: Hypochlorite Solution
Class: 8
Packing Group: III
Environmental hazard: Yes

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

HSNO Allocation:	Water Treatment Chemicals (Corrosive) Group Standard 2020
HSNO Approval Code:	HSR002681
Classifications:	Skin corrosion/irritation – Category 1C Serious eye damage – Category 1 Acute aquatic toxicity – Category 1 Chronic aquatic toxicity – Category 1
NZ Inventory of Chemicals:	All hazardous ingredients are listed in the NZ Inventory of Chemicals.
Food premises approval:	AsureQuality approved for use in registered food premises – Farm Dairies (H1235).

This substance triggers:

Compliance Certificate	N/A
Certified Handler	N/A
Emergency Response Plan	10,000 L
Secondary Containment	10,000 L
Signage	1,000 L

This substance is not required to be Tracked. 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 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 sanitizer and 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:	24/07/2026
Supersedes:	7/03/2024
Reason for Revision:	Hazard classification and hazard/precautionary statements aligned with the current approved C3 product label (BG 4948). Acute toxicity (Category 5, all routes) and aspiration hazard (Category 1) added, and environmental hazard classification applied (Aquatic Acute Category 1, Aquatic Chronic Category 1, H410; HSNO 9.1A) with the GHS09 pictogram, to match the approved product classification. EPA approval code and group standard corrected to HSR002526 (Cleaning Products (Corrosive) Group Standard 2020). Ecological information, transport environmental hazard status, precautionary statements and regulatory information updated accordingly.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Guide to Classifying Hazardous Substances in New Zealand, Version 1
FIL C3 approved product label (BG 4948)

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

END OF SAFETY DATA SHEET