

Date of issue: 7 March 2024  
 Revised by: Simonne Moses - HSNO Consultant SDS No: 2

# 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](http://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: 8.2C – Skin corrosive  
 8.3A – Eye corrosive

GHS Classification: Skin corrosion/irritation – Category 1C  
 Serious eye damage – Category 1

Hazard Statements:

H314 Causes severe skin burns and eye damage.

GHS Pictograms:



**DANGER**



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**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.
- 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+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P363 Wash contaminated clothing before reuse.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P321 Specific treatment (see first aid instructions on this label).
- 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/physician.

**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.

**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

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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 10,000L.**

**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. 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 1,000L.

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**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Workplace Exposure Standards NZ:</b>	No Workplace Exposure Standards have been established for this product.
<b>Engineering Controls:</b>	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.
<b>Personal Protective Equipment:</b>	Observe good chemical hygiene practice.
<b>Hand protection:</b>	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.
<b>Skin and body protection:</b>	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.
<b>Eye protection:</b>	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.
<b>Respiratory protection:</b>	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.
<b>Other information:</b>	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**

<b>Physical State:</b>	Liquid	<b>Colour:</b>	Pale yellow, clear
<b>Odour:</b>	Odourless	<b>Odour Threshold:</b>	Not applicable
<b>pH:</b>	11	<b>Solubility:</b>	Completely miscible
<b>Melting/Freezing Point:</b>	15.5°C (MP)	<b>Boiling Point:</b>	111°C
<b>Flash Point:</b>	Not applicable	<b>Flammability:</b>	Not flammable
<b>Lower/Upper Flammability Limits:</b>	Not applicable	<b>Vapour Pressure:</b>	Not available
<b>Vapour Density:</b>	Not available	<b>Relative Density:</b>	1.24
<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 applicable		

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**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:** LD50 oral > 5000 mg/kg.  
 LD50 dermal > 5000 mg/kg  
 LC<sub>50</sub> inhalation (mist/spray) > 5.0 mg/L

**Inhalation:** Inhalation of large volumes of mist/spray may cause irritation to mucous membranes.

**Ingestion:** Ingestion may cause chemical burns to 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:** 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:** Not expected to be ecotoxic.  
 LC/EC<sub>50</sub> > 100 mg/L

**Persistence/degradability:** Not expected to be persistent.

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**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 effects. However, the concentration in the product is below the threshold level for this classification.

Ecotoxicity data is based on 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.

**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: No  
 Limited Quantity: 5L  
 Hazchem Code: 2X

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

IATA:  
 UN No: 1791

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Proper Shipping Name: Hypochlorite Solution  
 Class: 8  
 Packing Group: III  
 Environmental hazard: No

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

**NZ Inventory of Chemicals:** All hazardous ingredients are listed in the NZ Inventory of Chemicals.

**This substance triggers:**

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

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: 7/03/2024

Supersedes: 2/08/2019

Reason for Revision: 5-year review and update. Sodium hypochlorite has been reassessed as an acute hazard to the environment. At the concentration in the formulation it is not environmentally hazardous.

References:

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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

**END OF SAFETY DATA SHEET**