

FIL C3

SAFETY DATA SHEET

Issue Date: 4-Dec-17

1. Product and Company Identification

Product Name: FIL C3
Proper Shipping Name: Hypochlorite Solution
Synonyms: Sodium hydrochlorite
Recommended Use: Farm dairy sanitiser/ Moss killer/ water treatment
Molecular Formula: ClONa
Manufacturer: FIL is a wholly owned subsidiary of GEA New Zealand Ltd
Address: 72 Portside Drive. Mt Maunganui
Telephone Number: 07 575 2162
Fax Number: 07 575 2161
Emergency phone No: 24hr 0508 434 569
Website: www.fil.co.nz
Email: info@fil.co.nz

2. Hazards Identification

Dangerous Goods: Dangerous Goods Class 8, packing group III

Hazardous Substance (HSNO):



DANGER

HSNO Classification and

Hazard Statements:

- 6.1E Acutely Toxic Substance (Low Hazard)**
- 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.
- 8.2C Corrosive to Dermal Tissue (Medium Hazard)**
- H314 Causes severe skin burns and eye damage.
- 8.3A Corrosive to Ocular Tissue (High Hazard)**
- H318 Causes serious eye damage.
- 9.1B Ecotoxic in the Aquatic Environment Medium Hazard)**
- H411 Toxic to aquatic life with long lasting effects.

Prevention statements:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P104 Read safety data sheet before use.
- P260 Do not breathe vapours/spray.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response statements:

P101 If medical advice is needed, have product container or label at hand.
 P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
 P331 Do NOT induce vomiting.
 P304+P312 IF INHALED: Call a POISON CENTRE or doctor/physician if you feel unwell.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
 Rinse skin with water.
 P363 Wash contaminated clothing before reuse.
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTRE or doctor/physician.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P391 Collect spillage.

Storage statements:

P405 Store locked up.

3. Composition/Information on Ingredients

Appearance: Clear pale green/yellow liquid with chlorine odour.
CAS No: 7681-52-9 Sodium hypochlorite (10-20%)
 7732-18-5 Water (to 100%)

4. First Aid Measures

Ingestion: Call a doctor. Rinse mouth then give a glass or two of water or milk. DO NOT induce vomiting unless medical assistance is delayed by 15 minutes (take care to avoid patient inhaling stomach contents). If breathing stops start mouth to nose resuscitation. Arrange urgent transport to hospital.

Eye Contact: Wash eye with gently running water for at least 20 minutes. Do not rub the eye. Cover with sterile dressing. Seek medical attention immediately.

Skin Contact: Quickly remove contaminated clothing. Wash skin with large quantities of water. Bathe affected areas in warm saline solution. Seek medical attention.

Inhalation: Remove the casualty from further contamination. If symptoms are severe or persist seek medical attention.

Notes to Physician: Treat symptomatically.

5. Fire-fighting Measures

Specific Hazards: Nil - not combustible. Potential for spontaneous combustion in contact with organic materials. Decomposes on heating emitting toxic fumes.
 Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.

Suitable Extinguishing Media: Extinguish fire using agent suitable for type of surrounding fire. (Material itself does not burn or burns with difficulty.) Use water in flooding quantities as fog.
Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible.

6. Accidental Release Measures

Spill Cleanup Methods: For large spills (greater than 20L) evacuate the area and call the fire brigade.
Contain and absorb on sand or other inorganic material - do not use sawdust or paper.
Place absorbed material in covered containers and dispose as hazardous waste in accordance with local regulations
Avoid contamination of natural waterways.
Small quantities may be washed to drain with large quantities of water.

7. Handling and Storage

Handling: Corrosive. Non-flammable, although potential for spontaneous combustion with organic materials.
Avoid spilling, skin and eye contact. Wear protective clothing, including elbow length PVC gloves and suitable eye protection.
Use with adequate ventilation - avoid creation and inhalation of aerosols.
After use wash hands before eating, drinking or smoking.
Do not handle broken packages unless wearing appropriate personal protective equipment.

Storage: Do not store with D.G classes 1, 5, 7, acids, food or food containers.
Store in original container, tightly closed, away from foodstuffs and out of reach of children.

8. Exposure Control/Personal Protection

Exposure Standards: TWA 0.5ppm, STEL 2 ppm, product mainly used outside.

Engineering Controls: Use with adequate ventilation - avoid creation and inhalation of aerosols.

Personal Protection: Use elbow length PVC gloves and suitable eye protection.

9. Physical and Chemical Properties

Appearance and Odour: Clear pale yellow liquid.
Solubility in Water (g/l): Fully miscible.
Specific Gravity: 1.24
Boiling Point/ Melting point (C): BP 111 °C / MP 15.5 °C
Vapour Pressure: (Pascals or mm of Hg @ 250C): Not Available
Flashpoint (C): Nil
Flammability Limits (%): Not Applicable
pH Value: 11

10. Stability and Reactivity

Stability: Stable. Contact with acids releases poisonous gas (chlorine). Light sensitive.
Incompatible with strong acids, amines, ammonia, ammonium salts, reducing agents, metals, aziridine, methanol, formic acid, phenylacetonitrile.

11. Toxicological Information

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| General: | Caustic alkali, corrosive and damaging to tissue. Dangerous if ingested, inhaled, gets in eyes or absorbed through skin. |
| Ingestion: | Corrosive. Burns in/around the mouth and digestive tract. Oral mouse LD50 5800 mg/kg, Oral human TDLo 1000mg/kg |
| Eye Contact: | Corrosive. Intense pain in the eye. Tightly closed. Reddened, swollen or watering excessively. Can't stand light. |
| Skin Contact: | Irritant - corrosive. |
| Inhalation: | Toxic/corrosive, pulmonary edema - avoid creating aerosols or mists. |

12. Ecotoxicity Information

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| 9.1A | Ecotoxic in the Aquatic Environment Avoid contamination of natural water supplies. |
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13. Disposal Considerations

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| Container Disposal: | Triple rinse containers before disposal and add rinsings to use solutions. Avoid contamination of any water supply with chemical or empty container. After cleaning, all existing labels should be removed. |
| Product Disposal: | Adjust the pH to neutral, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush the aqueous solutions down the drain with plenty of water. The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition. |

14. Transport Information

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| UN No: | 1791 |
| Dangerous Goods Class: | 8 |
| Hazchem Code: | 2X |
| Packing Group: | III |
| Proper Shipping Name: | Hypochlorite Solution |
| Segregation: | Do not store with D.G classes 1, 5, 7, acids, food or food containers. |
| Limited Quantities | 1L |
| Schedule 1 Quantity: | 250 litres |

15. NZ Regulatory Information

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| ERMA Approval Code: | HSR002526 |
| Group Standard: | Cleaning products (Corrosive) |
| HSNO Classifications: | 6.1E Acutely Toxic Substance (Low Hazard) 8.2C Corrosive to Dermal Tissue (Medium Hazard) 8.3A Corrosive to Ocular Tissue (High Hazard) 9.1B Ecotoxic in the Aquatic Environment (High Hazard) |

HSNO Controls: Trigger quantities for this substance by itself in a Place:

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| Certified Handler | <i>Not required</i> |
| Compliance Location Certificate: | <i>Not required</i> |
| Hazardous Atmosphere Zone: | <i>Not required</i> |
| Emergency Plan: | <i>1000L</i> |
| Tracking: | <i>Not required</i> |
| Warning Sign: | <i>1000L</i> |
| Record of application or discharge: | <i>Not required</i> |

16. Other Information

Issue Date: 4-Dec-17
Review Date: 4-Dec-22

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| Definitions: | DG | Dangerous Good | |
| | LD50 | Lethal dose 50 % kill | |
| | TDLo | Lowest published lethal dose | |
| | TLM 24 | 24 Hour median threshold limit | |
| | TWA | Time weighted average: | <i>The 8-hour time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure</i> |