

Date of issue: 25 March 2024  
 Revised by: Simonne Moses - HSNO Consultant SDS No: 2

# Safety Data Sheet

## FIL PERACETIC ACID

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

### Section 1: SUBSTANCE AND SUPPLIER DETAILS

**Product Name:** FIL Peracetic Acid

**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:** Dairy farm detergent/sanitiser

**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: **HSR001479**

HSNO CLASSIFICATIONS: 3.1D – Flammable liquid (low hazard)  
 5.1.1B – Oxidising liquid  
 6.1D – Acutely toxic, oral  
 6.1D – Acutely toxic, inhalation  
 6.9A – Toxic to human target organs or systems, repeated exposure  
 8.1A – Corrosive to metals  
 8.2B – Skin corrosive  
 8.3A – Eye corrosive  
 9.1A – Very ecotoxic in the aquatic environment, acute  
 9.1A - Very ecotoxic in the aquatic environment, chronic

GHS Classification: Flammable liquid – Category 4  
 Oxidising liquid – Category 2  
 Acute toxicity, oral – Category 4  
 Acute toxicity, inhalation – Category 4  
 Specific target organ systemic toxicant, repeated exposure – Category 1  
 Corrosive to metals – Category 1  
 Skin corrosion – Category 1B  
 Serious eye damage – Category 1

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Hazardous in the aquatic environment, acute – Category 1  
 Hazardous in the aquatic environment, chronic – Category 1

**Hazard Statements:**

- H227 Combustible liquid
- H272 May intensify fire, oxidiser
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H372 Causes damage to organs (respiratory system, gastrointestinal tract) through prolonged or repeated exposure via ingestion and inhalation
- H290 May be corrosive to metals
- H314 Causes severe skin burns and eye damage
- 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.
- P103 - Read label before use.
- P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P220 – Keep/Store away from clothing, wood, paper, cardboard, and other combustible materials.
- P234 - Keep only in original container.
- P260 - Do not breathe mist/vapours/spray.
- P264 - Wash hands and other areas of exposed skin thoroughly after handling.
- P270 - Do not eat, drink, or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- 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 label or container at hand.
- P370 + P378 – IN CASE OF FIRE: Use water only, for extinction.
- P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P363 – Wash contaminated clothing before reuse.
- 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 CENTER or doctor/physician.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P390 Absorb spillage to prevent material damage.
- P391 Collect spillage.

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**STORAGE:**

- P403 – Store in a well-ventilated place.
- P405 - Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.

**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.

**Other Hazards:**

Product is a strong oxidiser. Release of oxygen may support combustion. May decompose on heating, on contact with incompatible substances, impurities, metals, alkalis, reducing agents. Risk of explosion with organic solvents.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Mixture: Detergent/Sanitiser

Main Component	CAS Number	Concentration (%wt)
Peroxyacetic acid	79-21-0	< 5%
Hydrogen peroxide	7722-84-1	10 - 30%
Acetic acid	64-19-7	< 10%

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 and place in a position comfortable for breathing. Seek medical attention if symptoms persist. If not breathing provide artificial respiration and CPR.
- 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:** Immediately wash skin with plenty of water, using a safety shower if available, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek immediate medical attention. May cause skin whitening.
- If Swallowed:** DO NOT INDUCE VOMITING. Rinse mouth. Give large quantities of water. Never give anything by mouth to an unconscious person. Do not administer activated charcoal. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
- Advice to Doctor:** Treat symptomatically. Product is corrosive and a strong oxidant and exposure to skin or eye is likely to cause burns. Ophthalmological opinion should be sought for burns to eyes. Exposure by inhalation may cause lung damage (e.g., lung oedema, fluid in the lungs) and this reaction may be delayed up to 24 hours after exposure. Exposed individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or

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beclomethasone derivative may be considered.

### Section 5: FIRE FIGHTING MEASURES

<b>Fire/Explosion Hazard:</b>	Combustible liquid and strong oxidiser. May intensify fire. Keep away from combustible materials and ignition sources. May cause fire if exposed to organic compounds.
<b>Suitable Extinguishing Media:</b>	Use water spray. Do not use water jet, dry powder, carbon dioxide or foam.
<b>Precautions in Connection with Fire:</b>	Decomposes to release oxygen which may support a fire. Reactions with incompatible substances may produce heat increasing the risk of fire. Heating will cause pressure to build in containers and pipework potentially causing a rupture. Increases flammability of any combustible substance in contact with it. May ignite combustibles (wood, paper, clothing etc). Runoff may create a fire or explosion hazard.
<b>Advice for firefighters:</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves) or chemical splash suit. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment. Dam fire control water for later disposal. Remove fire-exposed containers from path of fire if safe to do so.

### 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 100L.**

<b>Precautions:</b>	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Remove any sources of ignition and combustible material. Any exposed combustible material must be immediately rinsed with large amounts of water. Avoid release to the environment. If a spill occurs into a waterway, notify the Regional Council.
<b>Suitable Protective Equipment:</b>	Emergency responders must use personal protective equipment, including gloves, safety goggles or face shield, overalls, aprons, and respirators fitted with an organic vapour cartridge.
<b>Spill or Leak Procedures.</b>	Never return spilled product to its original container as there is a risk of decomposition. Contain the spill using sand or earth. Do NOT use combustible products such as sawdust, or textiles as this may cause a fire. Absorb using dry sand, diatomaceous earth, or other inert material. Collect material and place in a clean plastic disposal container. Do not use metal containers. Label the container. Do not seal the waste container airtight as there may be some decomposition and the container may rupture. Residues may be rinsed away with plenty of water.
<b>Waste Disposal Methods:</b>	Dispose of as per Section 13.
<b>Emergency preparation:</b>	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

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## Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Ensure work areas are well-ventilated. Keep away from sources of ignition and incompatible substances and materials. Avoid contact with skin, eyes, and clothing. Do not allow product to accumulate on clothing. Do not breathe mists/vapours/spray. Do not eat, drink, or smoke when using this product. Keep away from food and foodstuffs.

**Storage:** Store locked up. Store in a well-ventilated area. Keep storage area clear of combustible products. Ensure storage area can contain the product. Keep away from direct sunlight. Store at temperatures not exceeding 40°C. Ensure containers are fitted with appropriate venting devices.

**Site Storage Requirements:** Secondary containment is required when quantities exceed 100L. The containment must be impervious to acid. Site Signage will be required when quantities exceed 100L.

Separation from incompatibles:  
 Up to 1000L: 3m  
 1000 – 10,000L: 5m  
 >10,000L: 8m

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace Exposure Standards NZ:** No Workplace Exposure Standards have been established for this product. Workplace Exposure Standards have been established for the following ingredients:

Hydrogen peroxide: TWA 1 ppm, 1.4 mg/m<sup>3</sup>

Acetic acid: TWA 10 ppm, 25 mg/m<sup>3</sup>. STEL 15 ppm, 37 mg/m<sup>3</sup>.

**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. Where there is inadequate ventilation, mechanical extraction may be required.

**Personal Protective Equipment:** Observe good chemical hygiene practice. Avoid generating mists/vapours/spray.

**Hand protection:** Wear synthetic rubber protective gloves (e.g., neoprene, butyl rubber, or vinyl). Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.

**Skin and body protection:** Wear synthetic clothing. Avoid natural fibre clothing such as cotton, rayon, or wool. Use full rain suit or 'acid' suit of neoprene, PVC, butyl rubber, polyethylene, Gore Tex™ or Tyvex™ when appropriate to avoid exposure to peroxide.

Boots: Synthetic rubber (neoprene, butyl rubber or vinyl). Do NOT wear leather shoes or boots as they can catch fire within minutes after contact with peroxide, causing severe burns to the wearer.

Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

**Eye protection:** Tight fitting chemical splash goggles and full-face shield, (Non-Foam Seal). Refer to AS/NZS 1336 and 1337 for suitable eye and face protection.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Refer to

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AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection.

Wear approved respiratory protection: self-contained breathing apparatus.  
 Observe limited wearing time of 30 minutes.  
 Respirator with A2B2E2K192 combination filter ( Draeger ).  
 Respirator with ABEK2P3 combination filter ( 3M ).  
 Respirator with OV/AG combination filter ( 3M ).

**Other information:** PPE selected must be impervious to the substance and must not present a combustion hazard. Users should take care that Class 5 oxidising material is not accidentally transported into other areas where there may be incompatible materials or ignition sources via contaminated PPE.

Do not eat, smoke, or drink where material is handled, processed, or stored.  
 Wash hands carefully before eating 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
<b>Odour:</b>	Pungent/vinegar like	<b>Odour Threshold:</b>	Not available
<b>pH:</b>	1.5	<b>Solubility:</b>	Fully miscible in water.
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point:</b>	>60°C (decomposes)
<b>Flash Point:</b>	83°C	<b>Flammability:</b>	Combustible
<b>Lower/Upper Flammability Limits:</b>	Not available	<b>Vapour Pressure:</b>	25 hPa @ 20°C
<b>Vapour Density:</b>	Not available	<b>Relative Density:</b>	1.15
<b>Partition Coefficient:</b>	Not available	<b>Auto-ignition Temperature;</b>	Approx. 390°C
<b>Decomposition Temperature:</b>	>60°C	<b>Kinematic Viscosity:</b>	Not available
<b>Particle Characteristics:</b>	Not applicable		

### Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions. Decomposes if exposed to heat, releasing oxygen.
<b>Reactivity:</b>	May cause or contribute to the combustion of other material generally by yielding oxygen. Will react/decompose in contact with incompatible substances or contaminants.
<b>Conditions to Avoid:</b>	Heat, direct sunlight, incompatible materials, sources of ignition.
<b>Incompatibility:</b>	Metals, metal salts, alkalis, hydrochloric acid, reduction agents, impurities, decomposition catalysts, organic solvents, combustible organic material, e.g., wood, paper.
<b>Hazardous Decomposition:</b>	Will thermally decompose if exposed to heat, to produce oxygen and steam.

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## Section 11: TOXICOLOGICAL INFORMATION

### Acute Exposure

<b>Acute Toxicity:</b>	LD <sub>50</sub> oral >300 - ≤ 2000 mg/kg. LD <sub>50</sub> dermal >2000 mg/kg LC <sub>50</sub> inhalation 1 - ≤ 5 mg/L (mist)
<b>Inhalation:</b>	Harmful if inhaled. May cause respiratory irritation and may cause lung oedema. Effects may be delayed.
<b>Ingestion:</b>	Harmful if swallowed. May cause burns to mouth and surrounding tissue. Ingestion of large quantities may cause a rapid release of oxygen, stomach distention, bleeding of the stomach lining and damage to internal organs.
<b>Skin Corrosion/Irritation:</b>	Corrosive to skin. Causes severe burns, skin whitening, and blistering.
<b>Serious Eye Damage/Eye Irritation:</b>	Corrosive to eyes. Causes serious eye damage. May cause corneal burns.
<b>Respiratory or Skin Sensitisation:</b>	Not expected to be a contact or respiratory sensitiser.

### Chronic Exposure:

<b>Mutagen/Carcinogen/Reproductive Toxicant</b>	No known effects.
<b>Specific Target Organ Toxicity Single Exposure:</b>	No information available. No known effects.
<b>Specific Target Organ Toxicity Repeated Exposure:</b>	Toxic to human target organs or systems. May damage gastrointestinal and respiratory systems through prolonged or repeated exposure via ingestion or inhalation.
<b>Aspiration Hazard:</b>	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

<b>Ecotoxicity:</b>	Product is very toxic in the aquatic environment with both acute and chronic effects.  LC/EC <sub>50</sub> < 1 mg/L
<b>Persistence/degradability:</b>	Readily degradable.
<b>Bioaccumulation:</b>	Not determined.
<b>Mobility in soil:</b>	No information available.
<b>Other adverse effects:</b>	None identified.
<b>Ingredients with Ecotoxic classifications:</b>	Peracetic acid had been individually classified by the EPA NZ as very ecotoxic to aquatic life with acute and chronic effects.  Ecotoxicity data is based on information in the EPA Chemical Classification and Identification Database.

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**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal:** Dilution with water to <3% strength, then dispose of to an approved waste treatment system. Do not remove by effluent disposal truck as these are not vented or constructed of compatible material. Dispose of waste product via an approved waste disposal contractor.

**Disposal of Packaging:** Triple rinse packaging and add rinse solution to use solutions. 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: 3149

Proper Shipping Name: Hydrogen peroxide and peroxyacetic acid mixtures, stabilised, with acids, water and not more than 5% peroxyacetic acid.

Class: 5.1/8

Packing Group: II

Environmental hazard: Yes

Limited Quantity: 1L

Hazchem Code: 2P

IMDG:

UN No: 3149

Proper Shipping Name: Hydrogen peroxide and peroxyacetic acid mixtures, stabilised, with acids, water and not more than 5% peroxyacetic acid.

Class: 5.1/8

Packing Group: II

Marine Pollutant: Yes

EmS: F-H, S-Q

Limited Quantity: 1L

IATA:

UN No: 3149

Proper Shipping Name: Hydrogen peroxide and peroxyacetic acid mixtures, stabilised, with acids, water and not more than 5% peroxyacetic acid.

Class: 5.1/8

Packing Group: II

Environmental hazard: Yes



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Ensure transportation methods prevent leakage from packages and collapsing loads.

### Section 15: REGULATORY INFORMATION

**HSNO Allocation:** Ethaneperoxoic acid, <5% in hydrogen peroxide and acetic acid

**HSNO Approval Code:** HSR001479

**Classifications:**  
 Flammable liquid – Category 4  
 Oxidising liquid – Category 2  
 Acute toxicity, oral – Category 4  
 Acute toxicity, inhalation – Category 4  
 Specific target organ systemic toxicant, repeated exposure – Category 1  
 Corrosive to metals – Category 1  
 Skin corrosion – Category 1B  
 Serious eye damage – Category 1  
 Hazardous in the aquatic environment, acute – Category 1  
 Hazardous in the aquatic environment, chronic – Category 1

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

This substance triggers:	Compliance Certificate	250L (Skin corrosion 1B classification)
	Certified Handler	No
	Emergency Response Plan	100L
	Secondary Containment	100L
	Signage	100L
	Fire Extinguishers	2 required for 500L or more

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 disinfectant/sanitiser. 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: 25/03/2024  
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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**