

Date of issue: 7 August 2019
Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet FIL PERACETIC ACID

Classified as: Hazardous according to the EPA Hazardous Substances
(Minimum Degrees of Hazard) Notice 2017.

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

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 (Minimum Degrees of Hazards) Notice 2017.

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
8.1A – Corrosive to metals
8.2B – Skin corrosive
8.3A – Eye corrosive
9.1A – Very ecotoxic in the aquatic environment
9.3C – Harmful to terrestrial vertebrates

GHS Classification: Flammable liquid – Category 4
Oxidising liquid – Category 2
Acute toxicity, oral – Category 4
Acute toxicity, inhalation – Category 4

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Specific target organ systemic toxicant, single exposure – Category 1
 Corrosive to metals – Category 1
 Skin corrosion/irritation – Category 1B
 Serious eye damage/eye irritation – Category 1
 Aquatic toxicity (acute) – Category 1

Note: There is no GHS equivalent classification for terrestrial vertebrate toxicity.

Hazard Statements:

- H227 Combustible liquid
- H272 May intensify fire, oxidiser
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H370 Causes damage to organs via ingestion and inhalation
- H290 May be corrosive to metals
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H410 Very toxic to aquatic life with long lasting effects
- H433 Harmful to terrestrial vertebrates

GHS Pictograms:



DANGER

PREVENTION STATEMENTS:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat, flames and hot surfaces. No smoking.
- P220 Keep/Store away from clothing/reducing agents/flammable substances/organic matter/combustible materials.
- P221 Take any precaution to avoid mixing with combustibles/organic matter/flammable substances/reducing agents.
- P234 Keep only in original container.
- P260 Do not breathe mists/vapours/spray.
- P264 Wash hands and 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 and eye/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 fog or spray, foam, carbon dioxide, or dry powder for extinction.
- 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/shower.
- P363 Wash contaminated clothing before reuse.
- P321 <No specific treatment available>

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 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.
 P308+P313 If exposed or concerned: Get medical advice/attention.
 P390 Absorb spillage to prevent material damage.
 P391 Collect spillage.

STORAGE

P405 Store locked up.
 P406 Store in corrosive resistant container with a resistant inner liner.

DISPOSAL

In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
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. Seek medical attention if symptoms develop and persist.

In Contact with Eye: Hold eyes open, flush with water for at least 15 minutes. Seek immediate medical attention.

In Contact with Skin: Wash skin with plenty of water. Remove contaminated clothing. Seek immediate medical attention.

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.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Combustible liquid. Oxidising liquid. Will release oxygen and contribute to combustion. May lower flash point of combustible materials. Keep away from flames, hot surfaces, sparks. Remove containers from path of fire if possible and

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safe to do so. Cool fire exposed containers with water spray.

Suitable Extinguishing Media: Use water fog or spray, foam, carbon dioxide, or dry powder.

Precautions in Connection with Fire: Decomposes on heating emitting toxic fumes.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 100L.

Precautions: 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.

Suitable Protective Equipment: Emergency responders must use personal protective equipment, including gloves, protective clothing and safety glasses. Respiratory protection fitted with an organic vapour cartridge may be required.

Spill or Leak Procedures. Absorb the spill with suitable non-combustible absorbent material. Spills may be neutralised using soda ash provided the area is well-ventilated. Using non-sparking tools, collect into a properly labelled waste container for disposal.

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. Do not breathe mists/vapours/spray. This product should be used outdoors or in a well-ventilated area. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.

Storage: Store in a closed container in a well-ventilated area. Keep in original container. Keep away from heat and direct sunlight. Store locked up. Keep storage area clear of combustible material.

Site Storage Requirements: Site Signage will be required when quantities exceed 100L.
 Separation from incompatibles:
 Up to 1000L: 3m
 1000 – 10,000L: 5m
 >10,000L: 8m

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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	<p>No Workplace Exposure Standards have been established for this product. Workplace Exposure Standards have been established for the following ingredients:</p> <p>Hydrogen peroxide: TWA 1 ppm, 1.4 mg/m³</p> <p>Acetic acid: TWA 10 ppm, 25 mg/m³. STEL 15 ppm, 37 mg/m³.</p>
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 protective gloves that are resistant to the product. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Wear suitable protective clothing and PVC apron. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields or chemical goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Use a respirator fitted with an organic vapour cartridge. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information:	Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Colour:	Pale yellow
Odour:	Pungent/vinegar like	Odour Threshold:	Not available
pH:	1.5	Solubility:	Fully miscible in water.
Melting/Freezing Point:	Not available	Boiling Point:	>60°C (decomposes)
Flash Point:	83°C	Flammability:	Combustible
Lower/Upper Flammability Limits:	Not available	Vapour Pressure:	25 hPa @ 20°C
Vapour Density:	Not available	Relative Density:	1.15
Partition Coefficient:	Not available	Auto-ignition Temperature:	Approx. 390°C
Decomposition Temperature:	>60°C	Kinematic Viscosity:	Not available

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Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage and use conditions.

Reactivity: May form explosive mixtures with combustible and organic material.

Conditions to Avoid: Avoid heat, flames, hot surfaces. Avoid formation of mists/vapours/spray.

Incompatibility: Keep away from flammables, alkalis, combustible material, organic matter, reducing agents.

Hazardous Decomposition: May decompose on heating to form toxic fumes and releases oxygen which may support combustion.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity: LD50 oral > 300 - ≤ 2000 mg/kg.
 LC₅₀ inhalation (vapours) > 10.0 - ≤ 20.0 mg/L

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

Skin Contact: Skin corrosive.

Eye Contact: Eye corrosive.

Sensitiser: Not expected to be a contact or respiratory sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant No known effects.

Specific Target Organ Systemic Toxicity: Toxic to human target organs or systems via ingestion and/or inhalation.

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. Harmful to terrestrial vertebrates.

Persistence/degradability: Readily degradable.

Bioaccumulation: Not determined.

Mobility: Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

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Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. Adjust pH to neutral using soda ash. Reaction will generate heat and fumes and must be carried out in a well-ventilated area. 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 chemical or empty container.

Section 14: TRANSPORT INFORMATION

Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.



NZS5433:2012

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

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Packing Group: II
 Environmental hazard: Yes

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

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
8.1A	Corrosive to metals
8.2B	Skin corrosive
8.3A	Eye corrosive
9.1A	Very ecotoxic in the aquatic environment
9.3C	Harmful to terrestrial vertebrates

This substance triggers:	Compliance Certificate	250L (8.2B 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.

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Reason for Revision: Update to New Zealand regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

END OF SAFETY DATA SHEET