

FIL New Zealand Limited

FIL Peracetic Acid

SAFETY DATA SHEET

Issue Date: 13-Apr-18

1. Product and Company Identification

Product Name:	FIL Peracetic Acid
Proper Shipping Name:	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED with acid(s), water and not more than 5 per cent peroxyacetic acid
Synonyms:	Peroxyacetic acid
Recommended Use:	Farm dairy detergent/sanitiser
Molecular Formula:	C ₂ H ₄ O ₃ , CH ₃ COOH, H ₂ O ₂
Manufacturer:	FIL is a wholly owned subsidiary of GEA Farm Technologies 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: 5.1 Oxidiser, 8 Corrosive, 9 Ecotoxic

Hazardous Substance (HSNO):



DANGER

HSNO Classification and

Hazard Statements:

3.1D Flammable liquid: low hazard

H227 Combustible liquid

5.1.1.1B Oxidising substance: medium hazard

H272 May intensify fire; oxidizer.

6.1D Acutely Toxic Substance (Medium Hazard)

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

6.9A Toxic to human target organs or systems

H370 Causes damage to organs

8.1A Corrosive to Metals (High Hazard)

H290 May be corrosive to metals.

8.2B Corrosive to Dermal Tissue

H314 Causes severe skin burns and eye damage.

8.3A Corrosive to Occular Tissue (High Hazard)

H318 Causes serious eye damage.

9.1A Very ecotoxic in the aquatic environment

H410 Very toxic to aquatic life with long lasting effects.

9.3C Ecotoxic to Terrestrial Vertebrates (Medium Hazard)

H433 Harmful to terrestrial vertebrates

Prevention statements:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P104 Read safety data sheet before use.
- P210 Keep away from heat or ignition sources. No smoking
- P220 Keep away from clothing/combustible materials
- P221 Take any precaution to avoid mixing with combustibles/
- P234 Keep only in original container.
- P260 Do not breathe vapours/spray.
- P261 Avoid breathing fumes
- P264 Wash hands 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 container or label at hand.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately dilute with 120-240 mL of water or milk.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water
- 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.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- P370+P378 In case of fire: use dry powder to extinguish

Storage statements:

- P405 Store locked up.
- P406 Store in corrosive resistant(possibly stainless steel) container with a resistant inner liner.

3. Composition/Information on Ingredients

Appearance:	Yellow liquid	
CAS No:	79-21-0	Peroxyacetic acid
	7722-84-1	Hydrogen peroxide
	64-19-7	Ethanoic acid

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.
Notes to Physician:	Treat symptomatically.

5. Fire-fighting Measures

Specific Hazards:	Oxidiser - will enhance combustion Fire fighters to wear self-contained breathing apparatus and protective suit
Suitable Extinguishing Media:	Foam, carbon dioxide (CO ₂), dry chemical, water-spray.

6. Accidental Release Measures

Spill Cleanup Methods:	Follow Chemical Spill procedure. Wear appropriate PPE. Approach from upwind. Contain and absorb. Avoid contamination of waterways. Small quantities can be neutralized with soda ash provided the area is (can be) well ventilated, and washed to drain with large quantities of water. Combustible material exposed to this product should be immediately be rinsed with large amounts of water
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7. Handling and Storage

Handling:	Corrosive. Flammable. Oxidiser 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, 2, 3, 4, 5, 6, 8, food or food containers. Separation distance for up to 1000L: 3m Separation distance for greater than 1000L: 5m Store in original container, tightly closed, away from foodstuffs and out of reach of children.

8. Exposure Control/Personal Protection

Exposure Standards:	Hydrogen peroxide	1ppm (TWA, ACGIH); 1ppm (PEL, OSHA)
	Acetic acid	15ppm (STEL, ACGIH); 10ppm (PEL, OSHA)
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:	Pale Yellow liquid. Sharp, pungent, vinegar like odour
Solubility in Water (g/l):	Fully miscible.
Specific Gravity:	1.15
Boiling Point/Melting Point (C):	>60°C Decomposition/ -50°C
Vapour Pressure: (hPa @ 20C):	25
Flashpoint (C):	83°C
Flammability Limits (%):	Not Applicable
pH Value:	1.5
Other properties:	Oxidising agent

10. Stability and Reactivity

Stability:	Stable under normal conditions
Incompatible materials:	Impurities, decomposition catalysts, alkalis, reducing agents and flammable substances Reacts with organic substances. Risk of explosion.

11. Toxicological Information

General:	Corrosive and damaging to tissue. Harmful if ingested, inhaled, gets in eyes or absorbed through skin.
Ingestion:	Corrosive. Burns in/around the mouth and digestive tract. Oral-Rat LD50 1922 mg/kg
Eye Contact:	Strong irritant - corrosive. Intense pain in the eye. Tightly closed. Reddened, swollen or watering excessively.
Skin Contact:	Irritant, corrosive.
Inhalation:	Toxic/corrosive - avoid creating aerosols or mists. Inhalation-Rat LC50 4157 ppm/4h

12. Ecotoxicity Information

9.1A Very ecotoxic in the aquatic environment	TLM 24 Mosquito fish 138mg/l in turbid water Prevent from loss into natural waterways
9.3C Ecotoxic to Terrestrial Vertebrates	Oral-Rat LD50 1530 mg/kg Secure from ingestion by animals

13. Disposal Considerations

Container Disposal:	Dispose of empty containers safely in accordance with local regulations. Triple rinse containers when empty. Add rinsings to use solutions. Avoid contamination of natural water supplies with chemical or empty container. After cleaning, all existing labels should be removed.
Product Disposal:	Adjust the pH to neutral with soda ash, 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 and good ventilation.

14. Transport Information

UN No:	3149
Dangerous Goods Class:	5.1 Oxidiser (8 Corrosive)
Hazchem Code:	2P
Packing Group:	II
Proper Shipping Name:	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED with acid(s), water and not more than 5 per cent peroxyacetic acid
Segregation:	Do not store with D.G classes 1, 2, 3, 4, 5, 6, 8, food or food containers.
Limited Quantities	1L
Schedule 1 Quantity:	500 litres

15. NZ Regulatory Information

EPA Approval Code:	HSR001479
Group standard:	Ethaneperoxyic acid, <5% in acetic acid and hydrogen peroxide
HSNO Classifications:	3.1D <u>Flammable liquid: low hazard</u> 5.1.1.1B Oxidising substance: medium hazard 6.1D <u>Acutely Toxic Substance (Medium Hazard)</u> 6.9A <u>Toxic to human target organs or systems</u> 8.1A <u>Corrosive to Metals (High Hazard)</u> 8.2B <u>Corrosive to Dermal Tissue</u> 8.3A <u>Corrosive to Occular Tissue (High Hazard)</u> 9.1A <u>Very ecotoxic in the aquatic environment</u> 9.3C <u>Ecotoxic to Terrestrial Vertebrates (Medium Hazard)</u>

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

Approved Handler Test Certificate:	YES if >500L (epa.govt.nz)
Hazardous Substance Location:	YES
Location Test Certificate:	YES if >500L (epa.govt.nz)
Hazardous Atmosphere Zone:	Not Required
Emergency Plan:	YES if >100L (epa.govt.nz)
Tracking:	YES (9.1A)
Warning Sign:	YES if >500L (epa.govt.nz)
Record of application or discharge:	Not Required

16. Other Information

Issue Date:	13-Apr-18
Review Date:	13-Apr-23

Definitions:	DG	Dangerous Good
	LC50	Lethal concentration 50 % kill
	LD50	Lethal dose 50 % kill
	PEL	Permissible exposure limit
	TLM24	24 hour median threshold limit
	TWA	Time weighted average <i>The 8-hour time-weighted average exposure</i>

*standard designed to protect the worker from
the effects of long-term exposure*