

FIL Quantum Clear

SAFETY DATA SHEET

Issue Date: 1-Dec-14

1. Product and Company Identification

Product Name: FIL Quantum Clear
Proper Shipping Name: Non-hazardous
Synonyms: 1,2,3-Propanetricarboxylic acid, 2-hydroxy; beta-hydroxytricarballic acid
Recommended Use: Dairy Acid detergent
Molecular Formula: Mixture based on C₆H₈O₇
Manufacturer: FIL is a wholly owned subsidiary of GEA Farm Technologies New Zealand Ltd
Address: 72 Portside Drive, Mount 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: Not applicable
Toxic Substance: Not Applicable

Hazardous Substance (HSNO):



DANGER

HSNO Classification and Hazard Statements:

8.3A Eye corrosive (very high hazard)

H318 Causes serious eye damage.

6.3B Skin irritant (high hazard)

H316 Causes mild skin irritation.

Prevention statements:

P102 Keep out of reach of children.

P103 Read label before use.

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.

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.

P332 If skin irritation occurs:

P313 Get medical advice/attention.

Storage statements:

No storage statements for hazard class

Store in a closed container

3. Composition/Information on Ingredients

Appearance:	Odourless, colourless liquid
CAS No:	77-92-9 Citric Acid (39%)

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:	Nil - not combustible. 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:	NA

6. Accidental Release Measures

Spill Cleanup Methods:	Follow procedures in FIL Emergency response plan: Chemical Spill. 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.
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7. Handling and Storage

Handling:	Corrosive. Non-flammable. 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.
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Storage: Do not store with D.G classes 1, 5, 7, strong alkalis, 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: None established.

Engineering Controls: Use with adequate ventilation - avoid creation and inhalation of dusts and aerosols.
Keep containers closed when not in use and check regularly for leaks.

Personal Protection: Wear suitable protective clothing including barrier cream, gloves, respiratory and eye protection.

9. Physical and Chemical Properties

Appearance and Odour: Odourless, colourless liquid
Solubility in Water : Fully miscible
Specific Gravity: 1.146
Boiling Point/Melting Point (C): Not available
Vapour Pressure: Not available
Flashpoint (C): Nil
Flammability Limits (%): Not applicable
pH Value: 1.8

10. Stability and Reactivity

Stability: Stable. Incompatible with strong alkalis, powdered metals, iron-containing compounds.

11. Toxicological Information

General: Corrosive and damaging to tissue. May be harmful if ingested, inhaled, gets in eyes
Citric Acid: LD50 (rat) intraperitoneal 885 mg/kg; Oral rat 11700 mg/kg

Ingestion: May cause gastroenteritis with any or all of the following symptoms: nausea, vomiting, diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Eye Contact: Eye irritant. Symptoms may include tearing, redness and in severe cases eye damage due to burns.

Skin Contact: Irritant - corrosive.

Inhalation: Unlikely - potentially toxic/corrosive - avoid creating aerosols or mists.

12. Ecotoxicity Information

Not considered ecotoxic under New Zealand HSNO regulations.
 LC100 Goldfish 894 mg/l lifetime exposure in hard water
 LD50 (rat) intraperitoneal 885 mg/kg
 LD50 (rat) Oral 11700 mg/kg

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 neutral solution 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: Not applicable
Dangerous Goods Class: Not applicable
Toxic Substance: Not applicable
Hazchem Code: Not applicable
Packing Group: Not applicable
Proper Shipping Name: Not applicable
Segregation: Not applicable
Limited Quantities: Not applicable
Schedule 1 Quantity: Not applicable

15. NZ Regulatory Information

ERMA Approval code: HSR006517 Citric acid, >50% in a non hazardous diluent

HSNO Classifications: 8.3A Eye corrosive (very high hazard)
 6.3B Skin irritant (high hazard)

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

Approved Handler Test Certificate: *Not required*
Hazardous Substance Location: *Not required*
Location Test Certificate: *Not required*
Hazardous Atmosphere Zone: *Not required*
Emergency Plan: *10 000 kg*
Tracking: *Not required*
Warning Sign: *Not required*
Record of application or discharge: *Not required*

16. Other Information

Issue Date: 1-Dec-14
Review Date: 1-Dec-19

Definitions:

DG	Dangerous Good	
LC50	Lethal concentration 50 % kill	
LC100	Lethal concentration 100 % kill	
LD50	Lethal dose 50 % kill	
LDLO	lowest published lethal dose	
PEL	Permissible exposure limit	
STEL	Short term exposure limit	
TCLo	Lowest published toxic concentration	
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>