

#### **FIL Quantum Red**

#### **SAFETY DATA SHEET**

Issue Date: 30-Nov-17

# 1. Product and Company Identification

Product Name: FIL QUANTUM RED

Proper Shipping Name: PHOSPHORIC ACID Solution

Synonyms: Dairy Acid, orthophosphoric acid

Recommended Use: Farm dairy detergent/sanitiser

Molecular Formula: Mixture based on H3PO4

Manufacturer: FIL is a wholly owned subsidary of GEA Farm Technologies New Zealand Ltd

Address: 72 Portside Drive, Mount Maunganui

8

 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:

**Toxic Substance:** 

Hazardous Substance (HSNO):





### **DANGER**

HSNO Classification and 6.1D Acutely Toxic Substance (Medium Hazard)

**Hazard Statements:** H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

8.1A Corrosive to Metals (High Hazard)

H290 May be corrosive to metals.

8.2C Corrosive to Dermal Tissue (Medium Hazard)

H314 Causes severe skin burns and eye damage.

8.3A Corrosive to Occular Tissue (High Hazard)

H318 Causes serious eye damage.

9.1D Ecotoxic in the Aquatic Environment (Low Hazard)

H413 May cause long lasting harmful effects to aquatic life.

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.
P234 Keep only in original container.
P260 Do not breathe vapours/spray.

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.

Storage statements: P405 Store locked up.

P406 Store in corrosive resistant(possibly stainless steel) container with a resistant inner

#### 3. Composition/Information on Ingredients

Appearance: Red liquid

**CAS No:** 7664-38-2 Phosphoric Acid <40%

5949-29-1 Citric acid monohydrate (< 10%)

Surfactants, biocide, dye, 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.

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.

Electrical conductor - isolate power in case of spills.

Suitable Extinguishing Media: Water fog (or if unavailable fine water spray), foam, dry chemical powder.

#### 6. Accidental Release Measures

Spill Cleanup Methods: 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.

Electrical conductor - isolate power in case of spills.

### 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.

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:** TWA 1mg/m3 - product is mainly used outside.

PEL 1mg/m3

**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: Red liquid.

Solubility in Water (g/l): Fully miscible.

Specific Gravity: 1.29

Boiling Point/Melting Point (C): Not Available
Vapour Pressure: (Pascals or mm of Hg @ 250C): Not Available

Flashpoint (C): Nil

Flammability Limits (%): Not Applicable

pH Value: 1.5

Other properties: Electrical conductor - isolate power in case of spills.

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

or absorbed through skin.

**Ingestion:** Corrosive. Burns in/around the mouth and digestive tract.

Oral-Rat LD50 1530 mg/kg

Eye Contact: Strong irritant - corrosive. Intense pain in the eye. Tightly closed. Reddened, swollen

or watering excessively. Can't stand light.

**Skin Contact:** Irritant, corrosive.

Skin-Rabbit LD50 2740mg/kg

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

Inhalation-Rat LC50 >850 mg/m3/1h

12. Ecotoxicity Information

9.1D Ecotoxic in the Aquatic Environment Prevent from loss into natural

waterways: TLM 24 Mosquito fish 138mg/l in turbid water.

9.3C Ecotoxic to Terrestrial Vertebrates Secure from ingestion by animals: Oral-Rat LD50 1530 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 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:** 1805

Dangerous Goods Class: 8 Corrosive

Hazchem Code: 2R
Packing Group: III

Proper Shipping Name: PHOSPHORIC ACID Solution

Segregation: Don't store with D.G classes 1, 5, 7, strong alkalis, food or food containers.

Limited Quantities 1L

Schedule 1 Quantity: 250 litres

# 15. NZ Regulatory Information

ERMA Approval Code: HSR002526

Group standard: Cleaning Products (Corrosive)

**HSNO Classifications:** 6.1D Acutely Toxic Substance

8.1A Corrosive to Metals

8.2C Corrosive to Dermal Tissue8.3A Corrosive to Occular Tissue

9.1D Ecotoxic in the Aquatic Environment9.3C Ecotoxic to Terrestrial Vertebrates

HSNO Controls: <u>Trigger quantities for this substance by itself in a Place:</u>

Certified Handler

Compliance Location Certificate:

Not Required

Hazardous Atmosphere Zone:

Not Required

Emergency Plan:

Tracking:

Not Required

Warning Sign:

1000 litres

Record of application or discharge:

Not Required

#### 16. Other Information

 Issue Date:
 30-Nov-17

 Review Date:
 30-Nov-22

**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 The 8-hour time-weighted average exposure

standard designed to protect the worker from the

effects of long-term exposure



If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately dilute with 1 glass of water or milk. Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Absorb spillage to prevent material damage.