

Date of issue: 24 September 2020  
 Revised by: Drew Chadwick – FIL Technical Manager SDS No: 1

# Safety Data Sheet

## FIL QUANTUM CLEAR

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

### Section 1: SUBSTANCE AND SUPPLIER DETAILS

**Product Name:** FIL Quantum Clear

**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:** Acid detergent

**In Case of Emergency Contact:**

**CHEMCALL:** 0800 CHEMCALL (243 622)

### Section 2: HAZARDS IDENTIFICATION

Classified as a Non-Dangerous Good for Transport.

Not Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

HSNO APPROVAL NUMBER: **HSR006517**

HSNO CLASSIFICATIONS: 6.3B – Skin irritant (high hazard)  
 8.3A – Eye corrosive

GHS Classification: Skin corrosion/irritation – Category 1C  
 Serious eye damage/eye irritation – Category 1

Hazard Statements:

H316 Causes mild skin irritation  
 H318 Causes serious eye damage

GHS Pictograms:





**DANGER**

PREVENTION STATEMENTS:

- P102 Keep out of reach of children
- P103 Read Label before use.
- 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.
- 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 CENTRE or doctor/physician.
- P332+P313 If skin irritation occurs: Get medical advice/attention

STORAGE:

- No storage statements for hazard class
- Store in a closed container.

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
Citric Acid	77-92-9	< 40%

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

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**In Contact with Skin:** Wash skin with plenty of water. 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:** Product is not flammable or combustible.

**Suitable Extinguishing Media:** NA

**Precautions in Connection with Fire:** Electrical conductor – isolate power in case of spills

**Advice for firefighters:** Wear full firefighting gear and self-contained breathing apparatus. Prevent spills from entering drains and water courses.

### 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 1,000L.**

**Precautions:** Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Substance may conduct electricity, ensure power supply is isolated. Avoid generating mist/spray. Avoid release to the environment.

**Suitable Protective Equipment:** Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection if there is a risk of inhaling mist/spray.

**Spill or Leak Procedures.** Contain the spill. Small quantities may be neutralised with soda ash. Absorb with suitable inert material such as sand, earth. Collect spilled material and place in a suitable, clean, chemical waste container. Ensure waste container is properly labelled.

**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. Avoid generating mists/spray. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.

**Storage:** Keep out of reach of children. Store locked up. Store in original container. Keep away from heat and direct sunlight. Store away from food and animal feed.

**Site Storage Requirements:** Site Signage will be required when quantities exceed 1,000L.

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## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Workplace Exposure Standards NZ:</b>	None established.
<b>Engineering Controls:</b>	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Use in a well-ventilated area. If natural ventilation is insufficient consider engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
<b>Personal Protective Equipment:</b>	Observe good chemical hygiene practice.
<b>Hand protection:</b>	Wear protective gloves that are resistant to the product, e.g. PVC. Gloves should be elbow length. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
<b>Skin and body protection:</b>	Use protective overalls and PVC apron. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
<b>Eye protection:</b>	Use chemical safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
<b>Respiratory protection:</b>	Where there is inadequate ventilation and use results in the formation of mists/spray, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection.
<b>Other information:</b>	PPE selected must be impervious to the substance. Handle in accordance with safe industrial hygiene practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless	<b>Odour Threshold:</b>	Not applicable
<b>pH:</b>	1,8	<b>Solubility:</b>	Fully miscible
<b>Melting/Freezing Point:</b>	Approx. -15°C (FP)	<b>Boiling Point:</b>	Approx. 105°C
<b>Flash Point:</b>	Not applicable	<b>Flammability:</b>	Not flammable
<b>Lower/Upper Flammability Limits:</b>	Not applicable	<b>Vapour Pressure:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable	<b>Relative Density:</b>	1.15
<b>Partition Coefficient:</b>	Not available	<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not available	<b>Kinematic Viscosity:</b>	Not available

## Section 10: STABILITY AND REACTIVITY

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**Stability:** Stable under normal storage conditions.

**Reactivity:** Reacts exothermically with alkalis. Corrodes metal.

**Conditions to Avoid:** Avoid generating mists/spray. Avoid excessive heat. Avoid electrical sources of ignition.

**Incompatibility:** Incompatible with strong oxidisers, alkalis, powdered metals and iron containing compounds.

**Hazardous Decomposition:** Decomposition may result in formation of toxic and corrosive fumes.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Exposure

**Acute Toxicity:** Citric Acid: LD50 (rat) intraperitoneal 885 mg/kg; Oral rat 11700 mg/kg

**Inhalation:** Inhalation of large volumes of mists/spray may cause irritation to mucous membranes.

**Ingestion:** Ingestion may cause chemical burns to mouth and gastrointestinal tract and may cause nausea, diarrhoea and vomiting.

**Skin Contact:** Skin corrosive (irritant)

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

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

### Chronic Exposure:

**Mutagen/Carcinogen/Reproductive Toxicant** No chronic toxicity effects expected.

**Specific Target Organ Systemic Toxicity:** No harmful effects known.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not considered ecotoxic under New Zealand HSNO regulations..

**Persistence/degradability:** Not available.

**Bioaccumulation:** Not available

**Mobility:** Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

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**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal:** Do not allow product to enter drains or waterways. Recycle and reuse wherever possible. Waste product may be treated with soda ash prior to disposal so it is no longer hazardous. Dispose of waste product via an approved waste disposal contractor.

**Disposal of Packaging:** Dispose of packaging via an approved waste disposal contractor. Triple rinse containers when empty. Add rinse solution to use solutions.

Avoid contamination of natural water supplies with chemical or empty container. After cleaning, all existing labels should be removed

**Section 14: TRANSPORT INFORMATION**

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

UN No: Not applicable  
 Proper Shipping Name: Not applicable  
 Class: Not applicable  
 Packing Group: Not applicable  
 Environmental hazard: No  
 Limited Quantity: Not applicable  
 Hazchem Code: Not applicable

IMDG:  
 UN No: Not applicable  
 Proper Shipping Name: Not applicable  
 Class: Not applicable  
 Packing Group: Not applicable  
 Marine Pollutant: No  
 EmS: Not applicable  
 Limited Quantity: Not applicable

IATA:  
 UN No: Not applicable  
 Proper Shipping Name: Not applicable  
 Class: Not applicable  
 Packing Group: Not applicable  
 Environmental hazard: No

Ensure transportation methods prevent leakage from packages and collapsing loads.

**Section 15: REGULATORY INFORMATION**

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**Group Standard Allocation:** Cleaning Product (Corrosive)

**HSNO Approval Code:** HSR006517

**HSNO Classifications:**  
 6.3B Skin irritant  
 8.3A Eye corrosive

Compliance Certificate	N/A
Certified Handler	N/A
Emergency Response Plan	1,000 L
Secondary Containment	1,000 L
Signage	1,000 L

This substance triggers:

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 cleaning product. 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: 24/09/2020

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**