

# SAFETY DATA SHEET

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020

---

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: **FLOQUAT™ FL 2949**

Type of product: Mixture.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

### 1.3. Details of the supplier of the safety data sheet

Company: SNF (UK) LTD  
1 Red Hall Crescent, Paragon Business Village  
Wakefield WF1 2DF  
United Kingdom

Telephone: 01924 311000

Telefax: 01924 311099

E-mail address: sds@snf.com

### 1.4. Emergency telephone number

24-hour emergency number: +33 477 36 87 25

National Poison Information Service: NHS Direct: 0845 4647 or 111 (24/24, 7/7); Scotland: NHS 24 - 08454 24 24 24 (24/24, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008:  
Aquatic Chronic 3;H412

### 2.2. Label elements

Labelling according to Regulation (EC) 1272/2008:

Hazard pictogram(s): None.

Signal word: None.

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| <i>Hazard statement(s):</i>        | H412 - Harmful to aquatic life with long lasting effects |
| <i>Precautionary statement(s):</i> | P273 - Avoid release to the environment                  |
| <i>Additional elements:</i>        | None.                                                    |

### 2.3. Other hazards

Spills produce extremely slippery surfaces.

#### *PBT and vPvB assessment:*

Not PBT or vPvB according to the criteria of Annex XIII of REACH.

For explanation of abbreviations see Section 16.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable, this product is a mixture.

### 3.2. Mixtures

#### Hazardous components

#### 1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

|                                                                  |                           |
|------------------------------------------------------------------|---------------------------|
| <i>Concentration/ -range:</i>                                    | 25 - 75%                  |
| <i>EC-No.:</i>                                                   | Polymer                   |
| <i>REACH Registration Number:</i>                                | Not applicable (polymer). |
| <i>Classification according to Regulation (EC) No.1272/2008:</i> | Aquatic Chronic 3;H412    |

For explanation of abbreviations see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### *Inhalation:*

Move to fresh air. No hazards which require special first aid measures.

#### *Skin contact:*

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

#### *Eye contact:*

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Alternatively, rinse immediately with Diphoterine®. Get prompt medical attention.

#### *Ingestion:*

Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

*4.2. Most important symptoms and effects, both acute and delayed*

None under normal use.

*4.3. Indication of any immediate medical attention and special treatment needed*

None under normal use.

*Other information:*

None.

**SECTION 5: Firefighting measures***5.1. Extinguishing media**Suitable extinguishing media:*

Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

Warning! Spills produce extremely slippery surfaces.

*Unsuitable extinguishing media:*

None known.

*5.2. Special hazards arising from the substance or mixture**Hazardous decomposition products:*

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

*5.3. Advice for firefighters**Protective measures:*

Wear self-contained breathing apparatus and protective suit.

*Other information:*

Spills produce extremely slippery surfaces. Will not burn until water is evaporated.

**SECTION 6: Accidental release measures***6.1. Personal precautions, protective equipment and emergency procedures**Personal precautions:*

Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

*Protective equipment:*

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

*Emergency procedures:*

Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

*6.2. Environmental precautions*

Do not contaminate water.

*6.3. Methods and material for containment and cleaning up*

## Small spills:

Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

## Large spills:

Do not flush with water. Dam up. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum.

## Residues:

After cleaning, flush away traces with water.

*6.4. Reference to other sections*

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

SECTION 7: Handling and storage*7.1. Precautions for safe handling*

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

*7.2. Conditions for safe storage, including any incompatibilities*

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

*7.3. Specific end use(s)*

This information is not available.

SECTION 8: Exposure controls/personal protection*8.1. Control parameters**National occupational exposure limits:*

None known.

*Derived No and Minimum Effect Levels (DNELs/DMELs)*

None known.

*Predicted no-effect concentrations (PNEC)*

None known.

*8.2. Exposure controls**Appropriate engineering controls:*

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

*Individual protection measures, such as personal protective equipment:**a) Eye/face protection:*

Safety glasses with side-shields.

*b) Skin protection:*

i) *Hand protection:* PVC or other plastic material gloves.

ii) *Other:* Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

*c) Respiratory protection:*

No personal respiratory protective equipment normally required.

*d) Additional advice:*

Wash hands before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

*Environmental exposure controls:*

Do not allow uncontrolled discharge of product into the environment.

**SECTION 9: Physical and chemical properties***9.1. Information on basic physical and chemical properties*

|                                                              |                                                                                                     |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <i>a) Appearance:</i>                                        | Liquid, Colorless to amber.                                                                         |
| <i>b) Odour:</i>                                             | Slight / Characteristic                                                                             |
| <i>c) Odour Threshold:</i>                                   | Not applicable.                                                                                     |
| <i>d) pH:</i>                                                | 4 - 7 (See Technical Bulletin or Product Specifications for a more precise value, if available)     |
| <i>e) Melting point/freezing point:</i>                      | < 5°C                                                                                               |
| <i>f) Initial boiling point and boiling range:</i>           | > 100°C                                                                                             |
| <i>g) Flash point:</i>                                       | Does not flash.                                                                                     |
| <i>h) Evaporation rate:</i>                                  | No data available.                                                                                  |
| <i>i) Flammability (solid, gas):</i>                         | Not applicable.                                                                                     |
| <i>j) Upper/lower flammability or explosive limits:</i>      | Not expected to create explosive atmospheres.                                                       |
| <i>k) Vapour pressure:</i>                                   | 2.3 kPa @ 20°C                                                                                      |
| <i>l) Vapour density:</i>                                    | 0.804 g/L @ 20°C                                                                                    |
| <i>m) Relative density:</i>                                  | 1.0 - 1.2 (See Technical Bulletin or Product Specifications for a more precise value, if available) |
| <i>n) Solubility(ies):</i>                                   | Completely miscible.                                                                                |
| <i>o) Partition coefficient n-octanol/water (log value):</i> | < 0                                                                                                 |
| <i>p) Autoignition temperature:</i>                          | Does not self-ignite (based on the chemical structure).                                             |
| <i>q) Decomposition temperature:</i>                         | > 150°C                                                                                             |
| <i>r) Viscosity:</i>                                         | See Technical Bulletin.                                                                             |
| <i>s) Kinematic viscosity:</i>                               | No data available.                                                                                  |
| <i>t) Explosive properties:</i>                              | Not expected to be explosive based on the chemical structure.                                       |

u) *Oxidizing properties:* Not expected to be oxidising based on the chemical structure.

v) *Particle characteristics:* Not applicable.

## 9.2. Other information

None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on the product as supplied:

*Acute oral toxicity:* LD50/oral/rat > 5000 mg/kg

*Acute dermal toxicity:* LD50/dermal/rat > 5000 mg/kg.

*Acute inhalation toxicity:* Testing by the inhalation route is inappropriate because exposure of humans via inhalation is unlikely: the substance has no vapour pressure and there is practically no exposure to inhalable aerosols.

*Skin corrosion/irritation:* Non-irritating to skin.

*Serious eye damage/eye irritation:* Slightly irritating.

*Respiratory/skin sensitisation:* Not sensitizing to skin. No respiratory sensitization has been observed in the workplace.

*Mutagenicity:* By analogy with similar products, this product is not expected to be mutagenic.

|                                  |                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| <i>Carcinogenicity:</i>          | By analogy with similar substances, this substance is not expected to be carcinogenic.           |
| <i>Reproductive toxicity:</i>    | By analogy with similar substances, this substance is not expected to be toxic for reproduction. |
| <i>STOT - Single exposure:</i>   | No known effects.                                                                                |
| <i>STOT - Repeated exposure:</i> | No known effect.                                                                                 |
| <i>Aspiration hazard:</i>        | No hazards resulting from the material as supplied.                                              |

Relevant information on the hazardous components:

1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

|                                           |                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|
| <i>Acute oral toxicity:</i>               | LD50/oral/rat > 2000 mg/kg                                                                       |
| <i>Acute dermal toxicity:</i>             | LD50/dermal/rat > 2000 mg/kg.                                                                    |
| <i>Acute inhalation toxicity:</i>         | The product is not expected to be toxic by inhalation.                                           |
| <i>Skin corrosion/irritation:</i>         | Not irritating.                                                                                  |
| <i>Serious eye damage/eye irritation:</i> | Not irritating.                                                                                  |
| <i>Respiratory/skin sensitisation:</i>    | The product is not expected to be sensitizing.                                                   |
| <i>Mutagenicity:</i>                      | By analogy with similar products, this product is not expected to be mutagenic.                  |
| <i>Carcinogenicity:</i>                   | By analogy with similar substances, this substance is not expected to be carcinogenic.           |
| <i>Reproductive toxicity:</i>             | By analogy with similar substances, this substance is not expected to be toxic for reproduction. |
| <i>STOT - Single exposure:</i>            | No known effects.                                                                                |
| <i>STOT - Repeated exposure:</i>          | No known effect.                                                                                 |
| <i>Aspiration hazard:</i>                 | No known effects.                                                                                |

*11.2. Information on other hazards*

The substance is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 and is also not on the Candidate List of Substances of Very High Concern according to Article 59 of the EU REACH Regulation for having endocrine disrupting properties.

SECTION 12: Ecological information

*12.1. Toxicity*

Information on the product as supplied:

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| <i>Acute toxicity to fish:</i>          | LC50/Danio rerio/96 hours = 10 - 100 mg/L   |
| <i>Acute toxicity to invertebrates:</i> | EC50/Daphnia magna/48 hours = 10 - 100 mg/L |

|                                           |                                                                                                                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Acute toxicity to algae:</i>           | Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. |
| <i>Chronic toxicity to fish:</i>          | No data available.                                                                                                                                                                               |
| <i>Chronic toxicity to invertebrates:</i> | No data available.                                                                                                                                                                               |
| <i>Toxicity to microorganisms:</i>        | No data available.                                                                                                                                                                               |
| <i>Effects on terrestrial organisms:</i>  | Exposure to soil is unlikely.                                                                                                                                                                    |
| <i>Sediment toxicity:</i>                 | Exposure to sediment is unlikely.                                                                                                                                                                |

Relevant information on the hazardous components:

1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

|                                           |                                                                                                                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Acute toxicity to fish:</i>            | LC50/Danio rerio/96 hours = 10 - 100 mg/L                                                                                                                                                        |
| <i>Acute toxicity to invertebrates:</i>   | EC50/Daphnia magna/48 hours = 10 - 100 mg/L                                                                                                                                                      |
| <i>Acute toxicity to algae:</i>           | Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. |
| <i>Chronic toxicity to fish:</i>          | No data available.                                                                                                                                                                               |
| <i>Chronic toxicity to invertebrates:</i> | No data available.                                                                                                                                                                               |
| <i>Toxicity to microorganisms:</i>        | No data available.                                                                                                                                                                               |
| <i>Effects on terrestrial organisms:</i>  | Exposure to soil is unlikely.                                                                                                                                                                    |
| <i>Sediment toxicity:</i>                 | Exposure to sediment is unlikely.                                                                                                                                                                |

**12.2. Persistence and degradability**

Information on the product as supplied:

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Degradation:</i>                 | Not readily biodegradable.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>Hydrolysis:</i>                  | Does not hydrolyse.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Photolysis:</i>                  | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <i>Environmental fate/exposure:</i> | The active ingredient in this product is a high molecular weight, water-soluble polymer. It adsorbs rapidly and irreversibly to substrates, dissolved organic carbon and/or suspended particles forming an insoluble adduct which precipitates out of the water-column. This adduct is totally eliminated from the wastewater stream during water-treatment and/or sludge dewatering and will not be discharged to surface water. |

Relevant information on the hazardous components:

1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

Degradation: Not readily biodegradable.

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

### 12.3. Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow): < 0

Bioconcentration factor (BCF): ~0

Relevant information on the hazardous components:1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

Partition co-efficient (Log Pow): < 0

Bioconcentration factor (BCF): ~0

### 12.4. Mobility in soil

Information on the product as supplied:

Exposure to soil is not to be expected.

K<sub>oc</sub>: No data available.

Relevant information on the hazardous components:1,2-Ethanediamine, polymer with 2-(chloromethyl)oxirane and N-methylmethanamine

K<sub>oc</sub>: No data available.

### 12.5. Results of PBT and vPvB assessment

PBT assessment:

Not PBT according to the criteria of Annex XIII of REACH.

vPvB assessment:

Not vPvB according to the criteria of Annex XIII of REACH.

### 12.6. Endocrine disrupting properties

The substance is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 and is also not on the Candidate List of Substances of Very High Concern according to Article 59 of the EU REACH Regulation for having endocrine disrupting properties.

#### 12.7. Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste from residues/unused products:

Dispose in accordance with local and national regulations.

##### Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations.

##### Recycling:

Store containers and offer for recycling of material when in accordance with the local regulations.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

Not classified.

#### Sea transport (IMDG)

Not classified.

#### Air transport (IATA)

Not classified.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment for this product has been carried out by the person responsible for producing this Safety Data Sheet. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well any as any resulting Risk Reduction Measures.

### SECTION 16: Other Information

#### This data sheet contains changes from the previous version in section(s):

SECTION 2. Hazards identification, SECTION 5. Fire-fighting measures, SECTION 9. Physical and chemical properties, SECTION 15. Regulatory information, SECTION 16. Other Information.

#### Key or legend to abbreviations and acronyms used in the safety data sheet:

*Acronyms*

PBT = persistent, bioaccumulative and toxic

STOT = Specific target organ toxicity

vPvB = very persistent and very bioaccumulative

*Abbreviations*

Aquatic Chronic 3 = Hazardous to the aquatic environment — Chronic Hazard, Category 3

*Hazard statements*

H412 - Harmful to aquatic life with long lasting effects

*Training advice:*

Do not handle until all safety precautions have been read and understood.

*This SDS was prepared in accordance with the following:*

Regulation (EC) N°1907/2006, as amended

Regulation (EC) N°1272/2008, as amended

---

Version: 19.01.b

LDCC002

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## ANNEX(ES)

This product is not hazardous as supplied and/or does not contain hazardous components:

- which require REACH registration; or,
- which demonstrate relevant effects which would require a chemical safety assessment; or,
- which are present at concentrations above their cut-off value.

Therefore, according to Regulation (EC) No 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.