

## SAFETY DATA SHEET

ClearFlo C8880

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product Identifier:**

- Commercial Product name: **CLEARFLO C8880**

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

- Use of substance/preparation: Mixture

**1.3 Details of the supplier of the safety data sheet:**

**Supplier:** GPC CLEAR SOLUTIONS LIMITED  
Unit 57  
Riverside Estate  
Sir Thomas Longley Road  
Medway City Estate  
Rochester  
Kent  
ME2 4DP  
United Kingdom

**Telephone Number:** +44 (0) 1634 326920

**Mobile:** +44 (0) 7787564967

**Email:** [sales@gpcclearsolutions.co.uk](mailto:sales@gpcclearsolutions.co.uk)

**1.4 Emergency Telephone Number (Out of office hours only):**

**GPC Clear Solution Ltd (Office hours only):** +44 (0) 7787 564 967

**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)

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of substance or mixture

- **Classification according to Regulation EC 1272/2008 (CLP):** Aquatic Chronic 3;H412

#### 2.2 Labelling elements:

##### Labelling according to Regulation (EC) 1272/2008:

- **Hazard pictogram(s):** None.
- **Signal word:** None.
- **Hazard statement(s):** H412 – Harmful to aquatic life with long lasting effects.
- **Precautionary statement(s):** P273 – Avoid release to the environment.
- **Additional elements:** 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances:** Not applicable, this product is a mixture.

**3.2 Mixtures:** This product is a mixture.

##### Hazardous components

*2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl-, chloride, homopolymer*

- **Concentration/ -range:** 25 – 75%

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- **EC-No:** Polymer.
- **REACH Registration Number:** Not applicable (polymer).
- **Classification according to Regulation (EC) No. 1272/2008:** Aquatic Chronic 3;H412.

For explanation of abbreviations see section 16.

#### 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 reasonably foreseeable.

- **Other information:** None.

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### 5. FIRE-FIGHTING 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>). Ammonia (NH<sub>3</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.

### 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:**

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- **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. Sweep up and shovel into suitable containers for disposal.
- **Residues:** After cleaning, flush away traces with water.

## 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.

## 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 a personal protective equipment:**
    - a) **Eye/face protection:** Safety glasses with side-shields.

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- 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 at the end of workday. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.
- **Environmental exposure controls:** Do not allow uncontrolled discharge of product into the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- **Appearance:** Clear to slightly yellow liquid.
- **Odour:** None.
- **Odour Threshold:** Not applicable.
- **pH:** 4 – 8 (See Technical Bulletin o Product Specifications for precise value).
- **Melting point/freezing point:** < 5°C
- **Initial boiling point and boiling range:** > 100°C
- **Flash point:** Does not flash.
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** Not applicable.
- **Upper/lower flammability or explosive limits:** Not expected to create explosive atmospheres.

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- **Vapour pressure:** 2.3 kPa @ 20°C
- **Vapour density:** 0.804 g/litre @ 20°C
- **Relative density:** 1.0 – 1.2 (See Technical Bulletin or Product Specifications for precise value).
- **Solubility(ies):** Completely miscible.
- **Partition coefficient:** < 0
- **Autoignition temperature:** Does not self-ignite (based on the chemical structure).
- **Decomposition temperature:** > 150°C
- **Viscosity:** See Technical Bulletin.
- **Explosive properties:** Not expected to be explosive based on the chemical structure.
- **Oxidizing properties:** Not expected to be oxidising based on the chemical structure.

9.2 **Other information:** None.

## 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>). Ammonia (NH<sub>3</sub>). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### 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:** Not irritating.
- **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.
- **Carcinogenicity:** By analogy with similar substances, this substance is not expected to be carcinogenic.
- **Reproductive toxicity:** By analogy with similar substances, this substance is not expected to be toxic for reproduction.
- **STOT- Single exposure:** No known effects.
- **STOT – Repeated exposure:** No known effects.
- **Aspiration hazard:** No hazards resulting from the material as supplied.

##### Relevant information on the hazardous components:

##### *2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl-, chloride, homopolymer*

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



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- **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:** Not irritating.
- **Serious eye damage/eye irritation:** Slightly irritating.
- **Respiratory/skin sensitisation:** Not sensitizing to skin. No respiratory sensitization has been observed in the workplace.
- **Mutagenicity:** Not mutagenic.
- **Carcinogenicity:** By analogy with similar substances, this substance is not expected to be carcinogenic.
- **Reproductive toxicity:** By analogy with similar substances, this substance is not expected to be toxic for reproduction.
- **STOT – Single exposure:** No known effects.
- **STOT – Repeated exposure:** No known effects.
- **Aspiration hazard:** No known effects.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

#### Information on the product as supplied:

- **Acute toxicity to fish:** LC50/Danio rerio/96 hours = 10 – 100 mg/L
- **Acute toxicity to invertebrates:** EC50/Daphnia magna/48 hours = 10 – 100 mg/L

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- **Acute toxicity to algae:** 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.
- **Chronic toxicity to fish:** No data available.
- **Chronic toxicity to invertebrates:** No data available.
- **Toxicity to microorganisms:** EC0/activated sludge/0.5 hours = 1000 mg/L (OECD 209)
- **Effects on terrestrial organisms:** Exposure to soil is unlikely.
- **Sediment toxicity:** Exposure to sediment is unlikely.

#### Relevant information on the hazardous components:

##### *2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl-. chloride, homopolymer*

- **Acute toxicity to fish:** LC50/Danio rerio/96 hours = 10 – 100 mg/L (OECD 203)
- **Acute toxicity to invertebrates:** EC50/Daphnia magna/48 hours = 10 – 100 mg/L (OECD 202)
- **Acute toxicity to algae:** Algal inhibition are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
- **Chronic toxicity to fish:** No data available.
- **Chronic toxicity to invertebrates:** No data available.
- **Toxicity to microorganisms:** EC0/activated sludge/0.5 hours = 1000 mg/L (OECD 209)
- **Effects on terrestrial organisms:** Exposure to soil is unlikely.
- **Sediment toxicity:** Exposure to sediment is unlikely.

#### 12.2 Persistence and degradability

##### Information on the product as supplied:

- **Degradation:** Not readily biodegradable.
- **Hydrolysis:** Does not hydrolyse.
- **Photolysis:** No data available.

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***2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl, chloride, homopolymer***

- **Degradation:** Not readily biodegradable.
- **Hydrolysis:** Does not hydrolyse.
- **Photolysis:** No data available.

#### 12.3 Bioaccumulative potential

- **Information on the product as supplied:** Not bioaccumulating.
- **Partition co-efficient (Log Pow):** < 0
- **Bioconcentration factor (BCF):** ~0

**Relevant information on the hazardous components**

***2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl-, chloride, homopolymer***

- **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.
- **Koc:** ~0

**Relevant information on the hazardous components**

***2-Propen-1-aminium, N, N-dimethyl-N-2-propen-1-yl-, chloride, homopolymer***

- **Koc:** ~0

#### 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.

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12.6 Other adverse effects: None known.

### 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 local regulations.

### 14. TRANSPORT INFORMATION

#### 14.1 UN number:

- **RID/ADR class:** Not classified.
- **IATA class:** Not classified.
- **IMDG class:** Not classified.

### 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:

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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 as any resulting Risk Reduction Measures.

#### 16. OTHER INFORMATION

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

SECTION 5. Fire-fighting measures, SECTION 10. Stability and reactivity, 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.

**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

LDCC003A

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.

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### **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.