

SAFETY DATA SHEET

CLEARFLO PP8980-1

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

1.1 Product Identifier:

- Trade Name: **CLEARFLO PP8980-1**
- 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:

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

1.4 Emergency Telephone Number (Office hours only):

GPC Clear Solution Ltd (Office hours only): +44 (0) 7787564967

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)

SAFETY DATA SHEET

CLEARFLO PP8980-1

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:** Not classified
- 2.2 Label Elements: (Labelling according to Regulation (EC) No 1272/2008:**
- **Hazard Pictograms:** None assigned
 - **Signal Word:** None assigned
 - **Hazard Statements:** None assigned
 - **Precautionary Statements:** None assigned
 - **Additional Elements:** EUH210 – Safety data sheet available on request
- 2.3 Other Hazards:** Aqueous solutions or powders that become wet render surfaces extremely slippery.
- **PBT and vPvB assessment:** Not PBT or vPvB according to the criteria of Annex XIII of REACH
- For explanation of abbreviation see Section 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:** Not applicable, this product is a mixture.
- 3.2 Mixtures:**
- Hazardous components**
- Adipic acid**
- **Concentration/ -range:** <= 2.5%
 - **EC-No:** 20-673-3
 - **REACH Registration Number:** 01-2119457561-38-XXXX
 - **Classification according to Regulation (EC)** Eye Irrit. 2;H319

SAFETY DATA SHEET

CLEARFLO PP8980-1

No. 1272/008:

Sulphamidic acid

- **Concentration/ -range:** <= 2.5%
- **EC-No:** 226-218-8
- **REACH Registration Number:** 01-211998211-44-XXXX/ 01-2119488633-28-XXXX
- **Classification according to Regulation (EC) No. 1272/2008:** Skin Irrit. 2;H315, Eye Irrit. 2;H319, 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. Get medical attention if symptoms occur.
- **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. Get prompt medical attention.
- **Ingestion:** Rinse mouth with water. If conscious, give the victim plenty of water to drink. Induce vomiting, but only if victim is fully conscious.

4.2 Most important symptoms and effects, both acute and delayed:

Powder can cause localised skin irritation in folds of the skin or under tight clothing. Contact with dust can cause mechanical irritation or drying of the skin.

4.3 Indication of any immediate medical attention and special treatment needed:

None

- **Other information:** No information available.

SAFETY DATA SHEET

CLEARFLO PP8980-1

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

- **Suitable extinguishing media:** Water, water spray, foam, carbon dioxide (CO₂) and Dry powder
Warning! Spills produce extremely slippery surfaces.
- **Unsuitable extinguishing media:** None known.

5.2 Special hazards arising from substance or mixture:

Hazardous decomposition products:

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.4 Advice for fire firefighters:

- **Protective measures:** Wear self-contained breathing apparatus for firefighting if necessary.
- **Other information:** Aqueous solutions or powders that become wet render surfaces extremely slippery.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

- **Personal Precautions:** Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Aqueous solutions or powders that become wet render surfaces extremely slippery.
- **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 precaution:

As with all chemical products, do not flush into surface water.

6.3 Methods and material for containment and cleaning up:

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Small spills:** Do not flush with water. Clean up promptly by sweeping or vacuum.
- **Large spills:** Do not flush with water. Prevent unauthorized access. Sweep up and shovel into suitable containers or disposal.
- **Residues:** Sweep up to prevent slip hazard. 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.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling:** Avoid dust formation. Avoid breathing dust. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.
- 7.2 Conditions for safe storage, including any incompatibles:** Keep in a dry place. Incompatible with oxidizing agents.
- 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)

Adipic acid

Workers:

- **Long-term systemic effects:**

SAFETY DATA SHEET

CLEARFLO PP8980-1

Inhalation	264 mg/m ³
Skin contact	38 mg/kg/day
- Acute systemic effects:	
Inhalation	264 mg/m ³
Skin contact	38 mg/kg/day
- Long-term local effects:	
Inhalation	5 mg/m ³
Acute local effects:	
Inhalation	5 mg/m ³
- Long-term systemic effects:	
Inhalation	65 mg/m ³
Skin contact	19 mg/kg/day
Ingestion	19 mg/kg/day
- Acute systemic effects:	
Inhalation	65 mg/m ³
Skin contact	19 mg/kg/day
Ingestion	19 mg/kg/day

Sulphamidic acid

Workers:

- Long-term susteic effects:	
Inhalation	70.5 mg/m ³
Skin contact	10 mg/kg/day

SAFETY DATA SHEET

CLEARFLO PP8980-1

- Long-term systemic effects:

Inhalation	17.4 mg/ m ³
Skin contact	5 mg/kg/day
Ingestion	5 mg/kg/day

Predicted no-effect concentrations (PNEC)

Adipic acid

- Freshwater:	0.126 mg/L
- Intermittent release:	0.46 mg/L
- Marine water:	0.0126 mg/L
- Sewage treatment plant:	59.1 mg/L
- Sediment (freshwater):	0.484 mg/kg
- Sediment (marine water):	0.00484 mg/kg
- Soil:	0.0228 mg/kg

Sulphamidic acid

- Freshwater:	1.8 mg/L
- Intermittent release:	0.48 mg/L
- Marine water:	0.18 mg/L
- Sewage treatment plant:	20 mg/L
- Sediment (freshwater):	8.36 mg/kg
- Sediment (marine water):	0.84 mg/kg
- Soil:	5 mg/kg

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Oral (secondary poisoning):** The product is not expected to bioaccumulate

8.2 Exposure controls

- **Appropriate engineering controls:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.
- **Individual protection measures, such as personal protective equipment:**
 - a) **Eye/face protection:** Safety glasses with side-shields. Do not wear contact lenses where this product is used. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
 - b) **Skin protection:**
 - i) **Hand protection:** PVC or other plastic material gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.
 - ii) **Other:** Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - c) **Respiratory protection:** Dust safety masks recommended where working powder concentration is more than 10 mg/ m³. Use respirators and components tested and approved under appropriate government standards such a NIOSH (US) or CEN (EU).
 - 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 **Appearance:** Granular solid, White

9.2 **Odour:** None

SAFETY DATA SHEET

CLEARFLO PP8980-1

9.3	Odour Threshold:	Not applicable
9.4	pH:	2.5 – 4.5 @ 5g/L (See Technical Bulletin or Product Specifications for precise value)
9.5	Melting point/freezing point:	> 100 °C
9.6	Initial boiling point and boiling range:	Not applicable
9.7	Flash point:	Not applicable
9.8	Evaporation rate:	Not available
9.9	Flammability (solid, gas):	Not combustible
9.10	Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres
9.11	Vapour pressure:	Not applicable
9.12	Vapour density:	Not applicable
9.13	Relative density:	0.6 – 0.9 (See Technical Bulletin or Product Specifications for a precise value, if available)
9.14	Solubility(ies):	Soluble in water
9.15	Partition coefficient:	< 0
9.16	Autoignition temperature:	Not applicable
9.17	Decomposition temperature:	> 200 °C
9.18	Viscosity:	See Technical Bulletin
9.19	Explosive properties:	Not expected to be explosive based on the chemical structure.
9.20	Oxidizing properties:	Not expected to be oxidising based on the chemical structure.
9.21	Other information:	None.

10. STABILITY AND REACTIVITY

SAFETY DATA SHEET

CLEARFLO PP8980-1

10.1	Reactivity:	Hazardous polymerisation does not occur.
10.2	Chemical stability:	Stable.
10.3	Possibility of hazardous reactions:	Oxidizing agents may cause exothermic reactions.
10.4	Conditions to avoid:	None known.
10.5	Incompatible materials:	Oxidizing agents.
10.6	Hazardous decomposition products:	Thermal decomposition may produce: nitrogen oxides (NOx, carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event combustion in an oxygen deficient atmosphere.

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:** The product is not expected to be toxic by inhalation.
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- **Skin corrosion/irritation:** Not irritating.
- **Serious eye damage/eye irritation:** Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.
- **Respiratory/skin sensitisation:** The results of testing on guinea pigs showed this material to be non-sensitizing.
- **Mutagenicity:** Not mutagenic
- **Carcinogenicity:** Not carcinogenic
- **Reproductive toxicity:** Not toxic for reproduction

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **STOT – Single exposure:** No known effects.
- **STOT – Repeated exposure:** No known effects.
- **Aspiration hazard:** No hazards resulting from the material as supplied.

11.2 Relevant information on the hazardous components:

Adipic acid

- **Acute oral toxicity:** LD50/oral/rat > 5560 mg/kg (OECD 401)
- **Acute dermal toxicity:** LD50/dermal/rat > 3176 mg/kg
- **Acute inhalation toxicity:** LC0/inhalation/4 hours/rat > = 7.7 mg/L (OECD 403)
- **Skin corrosion/irritation:** Slightly irritating.
- **Serious eye damage/eye irritation:** Not irritating (OCED 405)
- **Respiratory/skin sensitisation:** Not sensitizing
- **Mutagenicity:** Negative in the Ames Test (OECD 471). Negative in the In vitro Mammalian. Cell Gene Mutation Test (OECD 476)
- **Carcinogenicity:** Based on available data, product is not expected to be carcinogenic.
Carcinogenicity study in rat: NOAEL > 750 mg/kg/day
- **Reproductive toxicity:** Based on available data, product is not expected to be toxic for reproduction.
NOAEL/Maternal toxicity/rat > = 288 mg/kg/day
NOAEL/Developmental toxicity/rat > = 288 mg/kg/day
- **STOT – Single exposure:** No known effects.
- **STOT – Repeated exposure:** No known effects.
- **Aspiration hazard:** No known effects.

Sulphamidic acid

- **Acute oral toxicity:** LD50/oral/rat = 2065 – 2140 mg/kg
- **Acute dermal toxicity:** NOAEL/dermal/rat > 2000 mg/kg (OECD 402)

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Acute inhalation toxicity:** The product is not expected to be toxic by inhalation.
- **Skin corrosion/irritation:** Not irritating (OECD 404)
- **Serious eye damage/ eye irritation:** Moderately irritating to the eyes. (EPA OPPTS 870.2400)
- **Respiratory/skin sensitisation:** The product is not expected to be sensitizing
- **Mutagenicity:** Negative in Ames Test (OECD 471). Negative in the In vitro Mammalian Gene Mutation Test (OECD 476). Not Mutagenic. (OECD 472, 487)
- **Carcinogenicity:** Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic
- **Reproductive toxicity:** Based on available data, product is not expected to be toxic for reproduction.
Prenatal Development Toxicity Study (OECD 414)
NOAEL/Maternal toxicity/rat = 200 mg/kg/day
NOAEL/Developmental toxicity/rat = 200 mg/kg/day
- **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 = 5 – 100 mg/L (OECD 203)
- **Acute toxicity to invertebrates:** IC50/Daphnia magna/48 hours > 20 - 50 mg/L (OECD 202)
- **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.

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Chronic toxicity to fish:** No data available
- **Chronic toxicity to invertebrates:** No data available
- **Toxicity to microorganisms:** No data available
- **Effects on terrestrial organisms:** No data available. Readily biodegradable, exposure to soil is unlikely.
- **Sediment toxicity:** No data available. Readily biodegradable, exposure to sediment is unlikely.

Adipic acid

- **Acute toxicity to fish:** LC0/Danio rerio/96 hours > = 1000 mg/L
- **Acute toxicity to invertebrates:** EC0/Daphnia magna/48 hours > 46 mg/L (OECD 202)
- **Acute toxicity to algae:** IC0/Selenastrum capricornutum/72 hours = 59 mg/L (OECD 201)
- **Chronic toxicity to fish:** No data available
- **Chronic toxicity to invertebrates:** NOEC/Daphnia magna/21 days = 6.3 mg/L (OECD 211)
- **Toxicity to microorganisms:** EC50/activated sludge/3 hours = 4747 mg/L (OECD 209)
- **Effects on terrestrial organisms:** No data available.
- **Sediment toxicity:** No data available.

Sulphamidic acid

- **Acute toxicity to fish:** LC50/Pimephales promelas/96 hours = 70.3 mg/L (OECD 203)
- **Acute toxicity to invertebrates:** EC50/Daphnia magna/48 hours = 71.6 mg/L (OECD 202)
- **Acute toxicity to algae:** IC50/Scenedesmus subspicatus/72 hours = 48 mg/L (OECD 201)
- **Chronic toxicity to fish:** NOEC/Danio rerio/34 days > = 60 mg/L (OECD 210)
- **Chronic toxicity to invertebrates:** NOEC/Daphnia magna/21 days > 19 mg/L (OECD 211)
- **Toxicity to microorganisms:** EC50/activated sludge/3 hours > 200 mg/L (OECD 209)

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Effects on terrestrial organisms:** No data available
- **Sediment toxicity:** No data available

12.2 Persistence and degradability:

Information on the product as supplied:

- **Degradation:** Based on degradation data of components, this product is expected to be readily (bio)degradable.
- **Hydrolysis:** At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
- **Photolysis:** No data available

Adipic acid

- **Degradation:** Readily biodegradable. > 70% / 28 days (OECD 301 D)
- **Hydrolysis:** Does not hydrolyse
- **Photolysis:** Half-life (indirect photolysis): = 2.9 days

Sulphamidic acid

- **Degradation:** Not relevant (inorganic)
- **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):** No data available

Relevant information on the hazardous components:

Adipic acid

SAFETY DATA SHEET

CLEARFLO PP8980-1

- Partition co-efficient (Log Pow): 0.093 @ 25 °C, pH 3.3
- Bioconcentration factor (BCF): No data available

Sulphamidic acid

- Partition co-efficient (Log Pow): -4.34 @ 20 °C
- Bioconcentration factor (BCF): No data available

12.4 Mobility in soil:

Information on the product as supplied: No data available

Relevant information on the hazardous components:

Adipic acid

- Koc: No data available

Sulphamidic acid

- Koc: No data available

12. 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
- Other adverse effects: None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

- Waste from residues/unused products: Dispose in accordance with local and nation regulations. Can be landfilled or incinerated, when in compliance with local regulations.
- Contaminated packaging: Rinse empty container with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

SAFETY DATA SHEET

CLEARFLO PP8980-1

- **Recycling:** In accordance with local and national regulations.

14. TRANSPORT INFORMATION

- 14.1 Land transport (ADR/RID):** Not classified
- 14.2 Sea transport (IMDG):** Not classified
- 14.3 Air transport (IATA):** Not classified

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations 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 as any resulting Risk Reduction Measures

16. OTHER INFORMATION

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

SECTION 3. Composition/information on ingredients, SECTION 8. Exposure controls/personal protection, SECTION 16. Other Information

16.2 Key or legend to abbreviation 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

SAFETY DATA SHEET

CLEARFLO PP8980-1

Abbreviations

Eye Irrit. 2 = Serious eye damage/eye irritation, Hazard Category 2

Skin Irrit. 2 = Skin corrosion/irritation, Hazard Category 2

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

Hazard statement

H315 – Causes skin irritation

H319 - Causes serious eye irritation

H412 – Harmful to aquatic life with long lasting effects

Training advice:

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

16.4 This SDS was prepared in accordance with the following:

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

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

Version: 20.01.a

PRCC003

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, process, 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 197/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet