

ClearFlo C5898

 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDER
--

1.1 Product Identifier:

Trade Name: ClearFlo C5898

Type of Product: Mixture

1.2 Relevant identified used 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

Solutions House, 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 (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)

Page 1 of 14 Revision Date: 22/10/2019



ClearFlo C5898

	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) No 1272/2008	:
	- Hazard Pictograms:	None
	- Signal Word:	None
	- Hazard Statements:	H412 - Harmful to aquatic life with long lasting effects.
	- Precautionary Statements:	P273 – Avoid release to the environment.
	- Additional elements:	None.
2.3	Other Hazards:	May 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. 0	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances:	Not applicable, this product is a mixture.
3.2	Mixtures:	This product is a mixture.

Hazardous components

 ${\it 1,2-Ethane diamine, polymer\ with\ 2-(chloromethyl)\ oxirane\ and\ N-methyl methan a mine}$

- Concentration/ -range: 25 – 75%

Page 2 of 14 Revision Date: 22/10/2019



EC-No:

REACH Registration Number:

SAFETY DATA SHEET

Polymer

No applicable (polymer)

ClearFlo C5898

	- Classification according Regulation (EC) No. 1272/2008:	Aquatic Chronic 3;H412
	For explanation of abbreviations see section 16.	
4. F	IRST AID MEASURES	
l. 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.
1.2	Most important symptoms and effects, both acute and delayed:	None under normal use.
1.3	Indication of any immediate medical attention and special treatment needed:	None under normal use.
1.4	Other information:	None.

Page 3 of 14 Revision Date: 22/10/2019



ClearFlo C5898

5. FIRE-FIGHTING MEASURES

5.1	F	uishing	
5 I	FYTING	HIENING	menia:

- Suitable extinguishing media: Water. Water spray. Foam. Carbon dioxide (CO2). 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 (NOx), carbon oxides (COx). 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 REALEASE 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.

Page 4 of 14 Revision Date: 22/10/2019



ClearFlo C5898

6.3	Methods and material for containment and cleaning up:	
	- Small spills:	<u>Do not flush with water.</u> Soak up with inert absorben material. Sweep up and shovel into suitable containers fo disposal.
	- Large spills:	<u>Do not flush with water.</u> 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.
7. H	ANDLING 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 incompatibles:	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. E	XPOSURE CONTROLS/ PERSONAL PROTECTION	
8.1	Control parameters:	

Page 5 of 14 Revision Date: 22/10/2019

None known.

National occupational exposure limits:



ClearFlo C5898

-	Derived No and Minimum Effect Levels	None known.
	(DNELs/DMELs):	

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 protection: Safety glasses with side-shields.

b) Skin protection:

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

ii) Other: Wear coverall 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

- **Appearance:** Liquid, Colourless to amber.

- **Odour:** Slight/Characteristic

- **Odour Threshold:** Not applicable.

- **pH:** 4 – 7 (See Technical Bulletin or Product Specifications for

precise value).

- Melting point/ freezing point: <5°C

Initial boiling point and boiling range: > 100°C

Page 6 of 14 Revision Date: 22/10/2019



10.2

10.3

10.4

Chemical stability:

Conditions to avoid:

Possibility of hazardous reactions:

SAFETY DATA SHEET

ClearFlo C5898

Does not flash. Flash point: **Evaporation rate:** No data available. Flammability (solid, gas): Not applicable. Upper/lower flammability or explosive limits: Not expected to create explosive atmospheres. 2.3 kPa @ 20°C Vapour pressure: 0.804 g/litre @ 20°C Vapour density: 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 no self-ignite (based on the chemical structure). **Decomposition temperature:** > 150°C See Technical Bulletin. Viscosity: **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.

Page 7 of 14 Revision Date: 22/10/2019

None known.

Stable under recommended storage conditions.

Protect from frost, heat and sunlight.



ClearFlo C5898

10.5 Incompatible materials: None known.

10.6 Hazardous decomposition products: Thermal decomposition may produce: hydrogen chloride

gas, nitrogen oxides (NOx), carbon oxides (COx).

Hydrogen cyanide (hydrocyanic acid) amy be produced in

the vent of combustion in an oxygen deficient

atmosphere.

11. TOXICOLOGICAL INFORMATION

11.1

Information on toxicological effects

<u>Information on the product as supplied:</u>

- 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 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.

- Carcinogenicity: By analogy with similar substances, this product 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 effect.

Page 8 of 14 Revision Date: 22/10/2019



ClearFlo C5898

Aspiration hazard: 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

- Acute oral toxicity: LD50/oral/rat > 2000 mg/kg

- Acute dermal toxicity: LD50/dermal/rat > 2000 mg/kg

- **Acute inhalation toxicity:** The product is not expected to be toxic by inhalation

Skin corrosion/irritation: Non-irritating to skin.

Serious eye damage/eye irritation: Not irritating.

Respiratory/skin sensitisation:
 The product is not expected to be sensitizing.

- **Mutagenicity:** By analogy with similar products, this product is not

expected to be mutagenic.

- Carcinogenicity: By analogy with similar substances, this product 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 effect.

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

Page 9 of 14 Revision Date: 22/10/2019



ClearFlo C5898

-	Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours = 10 – 100 mg/L	
-	Acute toxicity to algae:	Algal inhibition tests are not appropriate. The flocculation characteristics of this 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:	No data available.	
-	Effects on terrestrial organisms:	Exposure to soil is unlikely.	
-	Sediment toxicity:	Exposure to sediment is unlikely.	
Relevant information on the hazardous components: 1,2-Ethanediamine, polymer with 2-(chloromethyl) oxirane and N-methylmethanamine			
_	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	
-	Acute toxicity to algae:	Algal inhibition tests are not appropriate. The flocculation characteristics of this 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:	No data available.	
-	Effects on terrestrial organisms:	Exposure to soil is unlikely.	
-	Sediment toxicity:	Exposure to sediment is unlikely.	

Information on the product as supplied:

Persistence and degradability

12.2

- **Degradation:** Not readily biodegradable.

Page 10 of 14 Revision Date: 22/10/2019



Hydrolysis:

SAFETY DATA SHEET

Does not hydrolyse.

ClearFlo C5898

	- Photolysis:	No data available.
	Relevant information on the hazardous component	ents:
1,2-Ethanediamine, polymer with 2-(chloromethyl) oxirane and l		yl) 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:	
	- Partition co-efficient (Log Pow):	< 0
	- Bioconcentration factor (BCF):	~ 0
	Relevant information on the hazardous component	ents:
	1,2-Ethanediamine, polymer with 2-(chlorometh	yl) 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.
	- Кос:	No data available.
	Relevant information on the hazardous component	ents:
	1,2-Ethanediamine, polymer with 2-(chlorometh	yl) oxirane and N-methylmethanamine
	- Koc:	No data available.
12.5	Results of PBT and vPvB assessment:	

Page 11 of 14 Revision Date: 22/10/2019



ClearFlo C5898

-	PBT assessment:	Not PBT according to the criteria of Annex XIII of REACH
-	vPvB assessment:	No vPvB according to the criteria of Annex XIII of REACH
Ot	ther adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS

12.6

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.

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 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

Page 12 of 14 Revision Date: 22/10/2019



ClearFlo C5898

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

Further 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

This SDS was prepared in accordance with the following:

Regulation (EC) No 1907/2006, as amended Regulation (EC) No 1272/2008, as amended

Version 19.01.b

LDCC002

Contact: Tele: +44 (0) 1634326920

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 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.

Page 13 of 14 Revision Date: 22/10/2019



ClearFlo C5898

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.

Page 14 of 14 Revision Date: 22/10/2019