

#### **CLEARFLO C5700**

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

1.1 Product Identifier:

Trade Name: CLEARFLO C5700

- **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 (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 C5700**

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2.1	Classification	of the substan	ce or mixture
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 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.

- 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:** Spill produce extremely slippery surfaces.

- **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:** This product is a mixture.

#### **Hazardous components**

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

- Concentration/ -range: 23 – 75%

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



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# **SAFETY DATA SHEET**

**CLEARFLO C5700** 

	- EC-No:		Polymer.
	- REACH	Registration Number:	Not applicable (polymer).
		cation according to Regulation o. 1272/2008:	Aquatic Chronic 3;H412
	For exp	planation of abbreviations see Section 10	6.
4. F	RST AID MEA	ASURES	
.1	Description	of first aid measures:	
	- Inhalat	ion:	Move to fresh air. No hazards which require special first aid measures.
	- Skin co	ntact:	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 coı	ntact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Alternatively, rinse immediate with Diphoterine. Get prompt medical attention.
	- Ingesti	on:	Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
.2	Most important course	rtant symptoms and effects, both lelayed:	None under normal use.
.3		of any immediate medical attention treatment needed:	None under normal use.
	- Other i	nformation:	None.

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



#### **CLEARFLO C5700**

#### **5. FIRE-FIGHTING MEASURES**

5.1 Extinguishing media:

- **Suitable extinguishing media:** Water. Water spray. Foam. Carbon dioxide (CO2). Dry Powder.

Warning! Spill 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 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

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



#### **CLEARFLO C5700**

- **Small spills:** <u>Do not flush with water.</u> Soak up with inert absorbent material.

Sweep up and shovel into suitable containers for disposal.

- Large spills: <u>Do not flush with water.</u> 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. 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, Keep away from heat and sources of ignition. Freezing will affect

including any incompatibles: 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):

## 8.2 Exposure controls

- Appropriate engineering controls: Use local exhaust if misting occurs. Natural ventilation is adequate

in absence of mists.

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



9.1

**Evaporation rate:** 

# **SAFETY DATA SHEET**

## **CLEARFLO C5700**

	-	Individual protection measures, such as personal protective equipment:			
		a)	) Eye/Face protection:		Safety glasses with side-shields.
		b) Skin protection:		otection:	
			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)	Respira	tory protection:	No personal respiratory protective equipment normally required.
		d)	Additio	nal advice:	Wash hands before breaks and immediately after handling the product. Wash hands before breaks and at the end of the workday. Handle in accordance with good industrial hygiene and safety practice.
	-	Env	vironmer	ntal exposure controls:	Do not allow uncontrolled discharge of product into the environment.
9. F	PHYSI	CAL	AND CH	EMICAL PROPERTIES	
.1	Inf	orma	ation on	basic physical and chemical proper	rties
	-	Ар	pearance	<b>:</b> :	Liquid, colourless to amber.
	-	Od	our:		Slight/Characteristic.
	-	Od	our Thre	shold:	Not applicable.
	-	рН	:		4-7 (See Technical Bulletin or Product Specifications for precise value).
	-	Me	elting poi	nt/freezing point:	<5°C
	-	Init	tial boilir	g point and boiling range:	> 100 °C
	-	Fla	sh point:		Does not flash.

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

No data available.



#### **CLEARFLO C5700**

Flammability (solid, gas): Not applicable. **Upper/lower flammability or explosive limits:** Not expected to create explosive atmospheres. Vapour pressure: 2.3 kPa @ 20°C Relative 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). > 150°C **Decomposition temperature:** Viscosity: See Technical Bulletin. **Explosive properties:** Not expected to be explosive based on the chemical structure. **Oxidizing properties:** Not expected to be oxidizing based on the chemical structure. Other information: None.

### **10. STABILITY AND REACTIVITY**

9.2

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.

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



#### **CLEARFLO C5700**

**10.6** 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.

#### 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:** 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 products, this product is not expected to

be carcinogenic.

Reproductive toxicity: By analogy with similar products, 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 hazards resulting from the material as supplied.

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



**CLEARFLO C5700** 

#### 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: Not irritating.

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 substance is not expected

to be carcinogenic.

- **Reproductive toxicity:** By analogy with similar substance, 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.

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



#### **CLEARFLO C5700**

- 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: 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 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:** No data available.

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.

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



12.3

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## **SAFETY DATA SHEET**

## **CLEARFLO C5700**

	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.		
Bio	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		
<u>Rel</u>	Relevant information on the hazardous components:			
1,2	1,2-Ethanediamine, polymer with 2-(chloromethyl) oxirane and N-methylmethanamine			
-	Partition co-efficient (Log Pow):	< 0		
-	Bioconcentration factor (BCF):	~0		
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 components				
1,2-Ethanediamine, polymer with 2-(chloromethyl) oxirane and N-methylmethanamine				
-	Koc:	No data available.		
Results of PBT and vPvB assessment				
_	PBT assessment:	Not PBT according to the criteria of Annex XIII of REACH.		

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



## **CLEARFLO C5700**

	- VPVB assessment:	Not VPVB according to the criteria of Annex XIII of REACH.
12.6	Other adverse effects:	None known.
13. I	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.
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.

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



#### **CLEARFLO C5700**

#### 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 as any resulting Risk Reduction Measures.

#### 16. OTHER INFORMATION

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

SECTION 2: Hazards identification; SECTION 4: 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

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



#### **CLEARFLO C5700**

#### 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 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.

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