SAFETY DATA SHEET

ClearFlo PE1280 HIB

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

1.1 Product Identifier:

- **Trade Name:** **CLEARFLO PE1280 HIB**
- **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
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)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

- **Classification according to Regulation (EC) No. 1272/2008:** Not classified.

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008:

- **Hazard pictograms:** None.
- **Signal word:** None.
- **Hazard statement:** None.
- **Precautionary statement(s):** None.
- **Additional elements:** EUH210 – Safety data sheet available on request.

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

Hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Concentration/ -range:** 20 – 30%
- **ECHA List Number (Assigned by ECHA to substances without an EC number):** 920-107-4
- **REACH Registration Number:** 01-2119453414-43-XXXX
- **Classification according to Regulation (EC) No. 1272/2008:** Asp. Tox. 1;H304
- **Notes:** Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm^2/s measured at 40°C.

Isotridecanol, ethoxylated

- **Concentration/ -range:** < 5%
- **EC-No:** Polymer.
- **REACH Registration Number:** Not applicable (polymer).
- **Classification according to Regulation (EC) No. 1272/2008:** Acute Tox. 4;H302, Eye Dam. 1;H318
- **Notes:** For explanation of abbreviation 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 doctor.

- **Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Call a doctor or poison control centre immediately.

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.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- **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). Ammonia (NH3). 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.

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

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 incompatibles: Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. 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):** None known.
- **Predicted no-effect considerations (PNEC):** None known.

8.2 Exposure controls

- **Appropriate engineering controls:** Ensure adequate ventilation, especially in confined areas. 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 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:**	Viscous liquid, Milky.
-	**Odour:**	Aliphatic.
-	**Odour Threshold:**	No data available.
-	**pH:**	not applicable.
-	**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.
-	**Vapour pressure:**	2.3 kPa @ 20°C
-	**Relative density:**	1.0 – 1.2 (See Technical Bulletin or Product Specifications for a more precise value, if available).
-	**Solubility(ies):**	Completely miscible.
-	**Partition coefficient:**	Not applicable.
-	**Autoignition temperature:**	Not applicable.
-	**Decomposition temperature:**	> 150°C

-	**Viscosity:**	> 20.5 mm²/s @ 40°C
-	**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:**	Oxidizing agents may cause exothermic reactions.
10.4	**Conditions to avoid:**	Protect from frost, heat, and sunlight.
10.5	**Incompatible materials:**	Oxidizing agents.
10.6	**Hazardous decomposition products:**	Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx). Ammonia (NH3). 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 products as supplied:

-	**Acute oral toxicity:**	LD50/oral/rat > 5000 mg/kg (Estimated)
-	**Acute dermal toxicity:**	LD50/dermal/rat > 5000 mg/kg (Estimated)
-	**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 (OECD 437)
- **Respiratory/skin sensitisation:** Not sensitizing.
- **Mutagenicity:** Not mutagenic.
- **Carcinogenicity:** Not carcinogenic.
- **Reproductive toxicity:** Not toxic for reproduction.
- **STOT – Single exposure:** No known effects.
- **STOT – Repeated exposure:** No known effect.
- **Aspiration hazard:** Due to the viscosity, this product does not present an aspiration hazard.

Relevant information on the hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Acute oral toxicity:** LD50/oral/rat > 5000 mg/kg (OECD 401)
- **Acute dermal toxicity:** LD50/dermal/rabbit > 5000 mg/kg (OECD 402)
- **Acute inhalation toxicity:** LC0/inhalation/4 hours/rat >= 4951 mg/m³ (OECD 403) (Based on results obtained from toxic on analogous products)
- **Skin corrosion/irritation:** Not irritating (OECD 404). Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/eye irritation:** Not irritating (OECD 405)
- **Respiratory/skin sensitisation:** By analogy with similar products, this product is not expected to be sensitizing (OECD 406).
- **Mutagenicity:** Not mutagenic. (OECD 471, 473, 474, 476, 478, 479)
- **Carcinogenicity:** Carcinogenicity study in rats (OECD 451): Negative.

- **Reproductive toxicity:** By analogy with similar substance, this substance is not expected to be toxic for reproduction.
  NOAEL/rat = 300 ppm (OECD 421)
- **STOT – Single exposure:** No known effects.
- **STOT – Repeated exposure:** Based on available data, product is not expected to demonstrate chronic toxic effects.
  NOAEL/oral/rat/90 days >= 3000 mg/kg/day (OECD 408)
  (Based on results obtained from tests on analogous products).
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

Isotridecanol, ethoxylated

- **Acute oral toxicity:** LD50/oral/rat = 500 – 2000 mg/kg
- **Acute dermal toxicity:** LD50/dermal/rabbit > 2000 mg/kg
- **Acute inhalation toxicity:** No data available.
- **Skin corrosion/irritation:** Not irritating (OECD 404).
- **Serious eye damage/eye irritation:** Causes serious eye irritation (OECD 405)
- **Respiratory/skin sensitisation:** The results of testing on guinea pigs showed this material to be non-sensitizing.
- **Mutagenicity:** In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
- **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.
  Two-Generation Reproduction Toxicity (OECD416)
  -NOAEL/rat > 250 mg/kg/day
  Prenatal Development Toxicity Study (OECD 414)
  -NOAEL/Maternal toxicity/rat > 50 mg/kg/day
  -NOAEL/Developmental toxicity/rat > 50 mg/kg/day
- **STOT – Single exposure:** No known effects.

- **STOT – Repeated exposure:** Based on available data, product is not expected to demonstrate chronic toxic effects.
  NOAEL/oral/rat/600 das = 50 mg/kg/day
- **Aspiration hazard:** No known effects.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

- **Acute toxicity to fish:** LC50/Fish/96 hours = 10 – 100 mg/L (Estimated)
- **Acute toxicity to invertebrates:** EC50/Daphnia magna/48 hours = 10 – 100 mg/L (Estimated)
- **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:** No data available.
- **Sediment toxicity:** No data available.

Relevant information on the hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Acute toxicity to fish:** LC0/Oncorhynchus mykiss/96 hours > 100 mg/L (OECD 203)
- **Acute toxicity to invertebrates:** EC0/Daphnia magna/48 hours > 1000 mg/L (OECD 202)

- **Acute toxicity to algae:** IC0/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L (OECD 201)
- **Chronic toxicity to fish:** NOEC/Oncorhynchus mykiss/28 days > 1000 mg/L
- **Chronic toxicity to invertebrates:** NOEC/Daphnia magna/21 days > 1000 mg/L
- **Toxicity to microorganisms:** EC50/Tetrahymena pyriformis/ 48h > 1000 mg/L
- **Effects on terrestrial organisms:** No data available.
- **Sediment toxicity:** No data available. Readily biodegradable, exposure to sediment is unlikely.

Isotridecanol, ethoxylated

- **Acute toxicity to fish:** LC50/Cyprinus carpio/96 hours = 1 – 10 mg/L (OECD 203)
- **Acute toxicity to invertebrates:** EC50/Daphnia/48 hours = 1 – 10 mg/L (OECD 202)
- **Acute toxicity to algae:** IC50/Desmodesmus subspicatus/72 hours = 1 – 10 mg/L (OECD 201)
- **Chronic toxicity to fish:** No data available.
- **Chronic toxicity to invertebrates:** NOEC/Daphnia magna/21 days > 1 mg/L (OECD 202)
- **Toxicity to microorganisms:** EC10/activated sludge/17 hours > 10000 mg/L (DIN 38412-8)
- **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 are not harmful to aquatic organisms.

- **Photolysis:** No data available.

Relevant information on the hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Degradation:** Readily biodegradable. 67.6% / 28 days (OECD 301 F) ; 68.8% / 28 days (OECD 306) ; 61.2% / 61 days (OECD 304 A)
- **Hydrolysis:** Does not hydrolyse.
- **Photolysis:** No data available.

Isotridecanol, ethoxylated

- **Degradation:** Readily biodegradable. > 60% / 28 days (OECD 301 B)
- **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):** Not applicable.
- **Bioconcentration factor (BCF):** No data available.

Relevant information on the hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Partition co-efficient (Log Pow):** 3 – 6
- **Bioconcentration factor (BCF):** No data available.

Isotridecanol, ethoxylated

- **Partition co-efficient (Log Pow):** > 3
- **Bioconcentration factor (BCF):** No data available.

12.4 Mobility to soil

- **Information on the product as supplied:** No data available.

Relevant information on the hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

- **Koc:** No data available.

Isotridecanol, ethoxylated

- **Koc:** > 5000

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 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. Can be landfilled or incinerated, when 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 with 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 the 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 5. Fire-fighting measures, SECTION 8. Exposure controls/personal protection, 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

SAFETY DATA SHEET

ClearFlo PE1280 HIB

Abbreviations
Asp. Tox. 1 = Aspiration hazard, Hazard Category 1
Acute Tox. 4 = Acute toxicity, Hazard Category 4
Eye Dam 1 = Serious eye damage/eye irritation, Hazard Category 1

Hazard statements
H302 – Harmful if swallowed
H304 – May be fatal if swallowed and enters airways
H318 – Causes serious eye damage

Training advice:
Do not handle until all safety precautions have been read and understood

Further information:
This SDS was prepared in accordance with the following:
Regulation (EC) N°1907/2006, as amended.
Regulation (EC) N°1272/2008, as amended.4

Version 20.01.a

ENCC046

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.

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, and Exposure Scenarios is not required as an annex to the Safety Data Sheet.