

SAFETY DATA SHEET

ClearFlo CFC

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

1.1 Product Identifier:

- Commercial Product name: **CLEARFLO CFC**
- CAS number: 7705-08-0

1.2 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

1.3 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 Main hazards: Irritating to eyes and respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Ferric chloride 39-44%

3.2 Hydrochloric Acid <3%

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Symptoms:

a) Skin contact: Irritation or pain occur at the site of contact. Blistering may occur. Leaves a brown stain.

b) Eye contact: there may be irritation and redness. The eyes may water profusely. Corneal burns may occur.

c) Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. In large quantities spots and other symptoms may occur as a result of an iron rich blood system.

d) Inhalation: May cause irritation to the respiratory system if mists or sprays may be inhaled.

- Action:

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| a) Skin contact: | Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. |
| b) Eye contact: | Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. |
| c) Ingestion: | Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. |
| d) Inhalation: | Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if necessary. |

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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| - Extinguishing media: | Use extinguishing media appropriate to the surrounding conditions. |
| - Exposure hazards: | Corrosive. Non-combustible. Attacks many metals, liberating hydrogen (which can form explosive mixtures with air). Thermal decomposition will evolve toxic and irritant vapours (chlorine and chlorides). |
| - Protection of firefighters: | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. |

6. ACCIDENTAL RELEASE MEASURES

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| 6.1 Personal precautions: | Refer to Section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. |
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- 6.2 Environmental precautions:** Contain the spillage using bunding. Do not allow material to enter surface drains or water courses. If this occurs, inform the relevant water authority at once.
- 6.3 Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

- 7.1 Handling requirements:** Avoid contact with skin or eyes. Wear protective clothing. Have available wash water, safety showers and eyewash bottles.
- 7.2 Storage conditions:** Stock tank installations should be constructed and sited as to avoid spillages which may enter water courses. Similar consideration should be given to pumping and pipework systems. Avoid incompatible materials and conditions – see Section 10 of SDS.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Workplace exposure limits**
- **WEL (8hr. TWA):** 1 mg/m³
 - **WEL (15 min STEL):** 2 mg/m³
 - **Engineering measures:** Ensure there is sufficient ventilation of the area.
 - **Respiratory protection:** Breathing apparatus must be available in case of emergency.
 - **Hand protection:** Protective gloves.
 - **Eye protection:** Safety goggles. Face shield. Ensure eye bath is to hand.
 - **Skin protection:** Boots made of PVC. Wear full protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **State:** Liquid.
- **Colour:** Dark brown.
- **Odour:** Slightly pungent.
- **Oxidising:** Non-oxidizing (by EC criteria).
- **Solubility in water:** Miscible in all proportions.
- **Boiling point/range °C:** 110
- **Melting point/range °C:** -20
- **Relative density:** 1.38 – 1.43
- **pH:** <1

10. STABILITY AND REACTIVITY

- 10.1 State:** Stable under normal conditions.
- 10.2 Conditions to avoid:** Heat.
- 10.3 Materials to avoid:** DO NOT MIX WITH ANY OTHER CHEMICALS.
- 10.4 Haz. decomp. products:** Emits toxic fumes of chlorine and chlorides.

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11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity:** Ferric Chloride Solution
ORL RAT LC50 10 – 100 mg/l

12. ECOLOGICAL INFORMATION

- 12.1 Bioaccumulative potential:** No evidence of bioaccumulation or tainting of seafood.
- 12.2 Other adverse effects:** Toxic to aquatic organisms. Slightly toxic to living resources LC50 96 hours 10 – 100 mg/l.

13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal operations:** Dispose of through approved waste disposal operatives. The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted. This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments.
- 13.2 Disposal of packaging:** Arrange for collection by specialised disposal company.
- 13.3 NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. This product is subject to The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and their amendments. (United Kingdom).

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14. TRANSPORT INFORMATION

14.1 ADR/RID

- **UN no:** 2582
- **ADR Class:** 8
- **Packing group:** III
- **Classification code:** C1
- **Shipping name:** Ferric Chloride Solution
- **Labelling:** 8



14.2 IMDG/IMO

- **UN no:** 2582
- **Class:** 8
- **Packing group:** III
- **EmS:** F-A, S-B
- **Marine pollutant:** NO
- **Labelling:** 8

14.3 IATA/IMO

- **UN no:** 2582
- **Class:** 8

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- **Packing group:** III
- **Packing instructions:** 818(P&CA); 820(CAO)

15. REGULATORY INFORMATION

15.1 Hazard symbols: Corrosive



15.2 Risk phrases: R36/37: Irritating to eyes and respiratory system.

15.3 Safety phrases: S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves, and eye/face protection.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. refer to all applicable national, international, and local regulations or provisions.

16. OTHER INFORMATION

16.1 Legal disclaimer: The information contained in this SDS does not constitute a risk assessment and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to

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describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.