

FERRIC CHLORIDE SOLN. 'O' GRADE (Iron Perchloride) MATERIAL SAFETY DATA SHEET

1. Product & Company Identification

Product Name: Ferric Chloride Soln. 'O' Grade

Use / description of product: Corrosive Liquid. The regulatory information is dependent upon the concentration limit of the specific substance.

Contact Information: Intaglio Printmaker
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2. Composition / Information on Ingredients

Ingredient 1: FERRIC CHLORIDE 30-60% [C] R34;

3. Hazards Identification

- **Main hazards:** Causes burns.

4. First Aid Measures

(Symptoms)

- **Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.
- **Eye contact:** There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur.
- **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.
- **Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

(Action)

- **Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. 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.
- **Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- **Ingestion:** Do not induce vomiting. If substance swallowed is corrosive, give 1 cup of water to drink every 10 minutes. If unconscious, check for 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.
- **Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. Fire-Fighting Measures

- **Extinguishing media:** Use extinguisher suitable to material on fire.

- **Exposure hazards:** Corrosive. In combustion emits toxic fumes.
- **Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

- **Personal precautions:** Refer to section 8 of SDS for personal protection details.
- **Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- **Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

7. Handling and Storage

- **Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
- **Storage conditions:** Store in cool, well-ventilated area. Keep container tightly closed.
- **Suitable packaging:** High density polyethylene. Polypropylene. PVC.

8. Exposure Controls / Personal Protection

- **Engineering measures:** Ensure there is sufficient ventilation of the area.
- **Respiratory protection:** Self-contained 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:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

9. Physical and Chemical Properties

- **State:** Liquid
- **Colour:** Dark brown
- **Viscosity:** Oily
- **Solubility in water:** Highly soluble
- **Boiling point/range °C:** >100
- **Relative density:** 1.45
- **pH:** <2

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to avoid:** Heat.
- **Materials to avoid:** Strong acids. Strong bases. Copper. Steel. Iron. Avoid contact with products containing hypochlorite (bleach type products) as toxic Chlorine gas may be evolved.
- **Haz. decomp. products:** In combustion emits toxic fumes.

11. Toxicological Information

Toxicity: FERRIC CHLORIDE
ORL RAT LD50 1872mg/kg

12. Ecological Information

Mobility: Soluble in water.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: Expected to be toxic to aquatic organisms.

13. Disposal Considerations

- **Waste disposal:** Arrange for collection by specialised disposal company.
- **Disposal of packaging:** Arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

- **ADR / RID**
- **UN no:** 2582
- **ADR Class:** 8
- **Hazard ID no:** 80
- **Labelling:** 8
- **Shipping name:** FERRIC CHLORIDE, SOLUTION
- **IMDG / IMO**
- **UN no:** 2582
- **Class:** 8

15. Regulatory Information

- **Hazard symbols:** Corrosive.
- **Risk phrases:** R34: Causes burns.
- **Safety phrases:** S1/2: Keep locked up and out of the reach of children.
S24/25: Avoid contact with skin and eyes.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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. Additional Information

- **Additional information:** This safety data sheet complies with the 28th adaption of E.C. directive 67/548/EEC, known in the U.K. as CHIP 3.
- **Risk phrases used in Section 2:** R34: Causes burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.