

**1. Identification**

Product Code 1121

Product Name **FERRIC CHLORIDE SOLUTION 60% w/v (40% w/w)**

Molecular Formula **FeCl<sub>3</sub> =162.21**

CAS Number 7705-08-0

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**2. Composition**

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Iron salts, as Fe	7705-08-0	231-729-4	> 60.0%	C : R34,R37	N/A

**3. Hazards Identification**

Causes burns. Irritating to respiratory system.

**4. First Aid Measures**

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

**5. Fire Fighting Measures**

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

**6. Accidental Release Measures**

Personal Protection Use approved personal protective equipment.

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

## 6. Accidental Release Measures (continued)

Major Spillage	Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

## 7. Storage & Handling

Handling Precautions	No specific precautions.
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## 8.1 Workplace Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

Respiratory	Presents no significant inhalation health hazard.
Hands	Use nitrile gloves or PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance	Red-brown liquid.
Odour	Odourless.
pH	2
Boiling point	Not available
Melting point	Not available
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	1.4500 °C
Water Solubility	Completely soluble in water.

## 10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Will decompose to emit toxic and irritant fumes of hydrogen chloride.

## 11. Toxicological Information

Eyes	The liquid will be irritating to the eyes but unlikely to cause serious injury.
Skin	The liquid will be irritating to the skin.
LD50 Skin	Not available
Ingest	Ingestion will cause gastrointestinal irritation.
LD50 Ingest	Oral Rat 1872 mg/Kg
Inhalation	Presents no significant health hazard by inhalation.
Carcinogenicity	Not considered to be a carcinogen.

## 11. Toxicological Information (continued)

Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## 12. Ecological

No data available but known to be toxic to fish.

## 13. Disposal Considerations

Disposal Methods	Dissolve in water and adjust pH to 7, then precipitate out as the sulphide. Filter off the insoluble material and dispose of at a licensed land-fill site. Destroy excess sulphide with sodium hypochlorite, neutralise the solution and wash to drain with copious amounts of water.
Contaminated Packaging	Wash out containers with water.

## 14. Transport Information

Proper Shipping Name	Ferric chloride solution
UN Number	2582
UN Classification	8 Corrosive
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	80



## 15. Regulatory Information

Labelling	Corrosive.
Classification	

Label Symbols

C



Risk & safety Phrases	Causes burns. Irritating to respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label).
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EEC Number	231-729-4
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## 16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC.
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The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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