



SAFETY DATA SHEET

FERRIC CHLORIDE	
CAS No: 7705-08-0 UN No: 2582 EC Res No: 231-729-4 Hazardous Materials Identification System(USA) Level:3 - Fire: 0 - Reactivity: 0	

PART I. Chemical Product and Company Identification	
- Product name: Ferric (III) Chloride (40±1)%	
- Chemical name: Ferric (III) Chloride	
- The manufacturer, contact information: VU HOANG CHEMICALS AND ENVIRONMENT CO., LTD Lot 109, Export Processing Zone and Linh Trung III, An Tinh Commune, Trang Bang, Tay Ninh Province, Vietnam Tel : (0276) 3899076 - 899077 - 899078 Fax: (0276) 3899075	Emergency Contact: VU HOANG CHEMICALS AND ENVIRONMENT CO., LTD Lot 109, Export Processing Zone and Linh Trung III, An Tinh Commune, Trang Bang, Tay Ninh Province, Vietnam Tel : (0276) 3899076 - 899077 - 899078 Fax: (0276) 3899075
- Applications: Using commonly in chemical, textile, water treatment industrial ...	

PART II. Composition and Information on Ingredients			
Toxicological Data on Ingredients	CAS	Chemical Formula	% by Weight
Ferric chloride	7705-08-0	FeCl ₃	36-40%

<p>PART III. Hazards Identification</p> <p>1. Hazardous Materials Identification System: *GHS labelling:</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> - Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. - Very hazardous in case of skin contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. - Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. - Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. <p>2. Dangerous Warning:</p> <ul style="list-style-type: none"> - Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive). Non-sensitizer for skin. Non-permeator by skin. carcinogenic effects: Not available. mutagenic effects: Not available. teratogenic effects: Not available. developmental toxicity: Not available. - The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic

eye irritation and severe skin irritation.

- Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

PART IV. First Aid Measures

1. Eye contact

- Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

2. Skin contact

- If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body.

- Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap.

- Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

3. Inhalation

- Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

- Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

4. Ingestion

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

5. Notice for medical treatment: Not available.

PART V. Fire and Explosion Data

1.Flammability of the Product: Non-flammable.

2.Auto-Ignition Temperature: Not applicable.

3.Flash Points: Not applicable.

4.Flammable Limits: Not applicable.

5.Products of Combustion: Not available.

6.Fire Hazards in Presence of Various Substances: Not applicable.

7.Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

PART VI. Accidental Release Measures

1. Small spill:

- Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

2. Large spill:

- Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift.

- Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not

present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

PART VII. Handling and Storage

1. Precautions:

- Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

2. Method, condition for storage:

- May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package. Corrosive materials should be stored in a separate safety storage cabinet or room.

PART VIII. Exposure Controls/Personal Protection

1. Engineering Controls:

2. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

3. Personal Protection:

4. Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots. Personal Protection in Case of a Large Spill:

5. Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

6. Exposure Limits:

Ferric chloride TWA: 1 CEIL: 2 (mg/m³) Consult local authorities for acceptable exposure limits.

PART IX. Physical and Chemical Properties

Physical state and appearance:	Liquid.
Odor:	Not available.
Taste:	Not available.
Molecular Weight:	Not applicable.
Color:	Yellowish-brown. (Dark.)
pH (1% soln/water):	Acidic.
Boiling Point:	The lowest known value is 100°C (212°F) (Water).
Melting Point:	Not available.
Critical Temperature:	Not available.
Specific Gravity:	1.41-1.425 g/cm ³ (40%, at 20 °C)
Vapor Pressure:	The highest known value is 17.535 mm of Hg (@ 20°C) (Water).
Physical state and appearance:	Liquid.
Molecular Weight:	Not applicable.
pH (1% soln/water):	Acidic.

PART X. Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity:

Highly corrosive in presence of copper. Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.
 Special Remarks on Corrosivity: Not available. Polymerization: No.

PART XI. Toxicological Information

Toxicological Data	Toxicity	Values	Routes of Entry	Toxicity to Animals
FeCl ₃	LD50	900 mg/kg	Oral	Rat, rabbit

Routes of Entry: Eye contact. Inhalation. Ingestion.
 Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.
 Other Toxic Effects on Humans:
 Extremely hazardous in case of skin contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive).
 Special Remarks on Toxicity to Animals: Not available.
 Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

PART XII. Ecological Information

Ecotoxicity: Not available.
 BOD5 and COD: Not available.
 Products of Biodegradation:
 Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
 Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. Special Remarks on the Products of Biodegradation: Not available.

PART XIII. Disposal Considerations

- 1. Disposal regulation (legal information):**
- 2. EPA dangerous waste:** No information.
- 3. Disposition method:** do not waste directly in environment. Treatment based on legal regulation
- 4. The products of disposition, treatment:**

PART XIV. Transport Information

Name specified	UN Num	Name of sea transport	Type, group of dangerous goods	Packing	Shipping label	Additional information
Regulations on carriage of dangerous goods of Vietnam: - 104/2009/NĐ-CP - 29/2005/NĐ-CP	2582	Ferric Chloride	8	III	Có	

PART XV. Other Regulatory Information

- 1. Federal and State Regulations:** No information
- 2. Other Special Considerations:** No information

PART XVI. Other Information

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Written: VU HOANG CHEMICALS AND ENVIRONMENT CO., LTD

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