



Vinayak Industries

MATERIAL SAFETY DATA SHEET FERRIC CHLORIDE HEXAHYDRATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: FERRIC CHLORIDE HEXAHYDRATE (LUMPS)

CAS#: 10025-77-1 CHEMICAL NAME: FERRIC CHLORIDE HEXAHYDRATE (FeCl3 . 6H₂O) Synonyms: FERRIC / iron(III) chloride HEXAHYDRATE/LUMPS

Company Identification:

VINAYAK INDUSTRIES

PLOT-3/11, GIDC,SARIGAM ST-BHILAD.GUJRAT. INDIA-396155 Company Phone Number: +912602781067 Emergency Phone Number: +919898615513

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

COMPOSITION:

Name cas # % by weight Ferric chloride hexahydrate 10025-77-1 100 HSN CODE : 28273990



SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

Appearance:	yellow-orange to dark brown lumps	
Caution!	May be harmful if swallowed.	
Target Organs	none known.	

Potential Health Effects

Eye: Skin: Ingestion:	very hazardous with direct contact May cause mild eye irritation. very hazardous with direct contact May cause mild skin irritation. Ingestion can result in abdominal pain, vomiting with blood, diarrhea, dehydration, shock, pallor, cyanosis, hypothermia, acidosis, coagulation defects, respiratory and cardiac involvement, vasomotor instability leading to coma and death. Survivors may develop reversible liver damage, gastric scarring and pyloric obstruction.	
Inhalation: Chronic:	very hazardous with direct contact May cause respiratory tract irritation. very hazardous with direct contact May cause dermatitis and conjunctivitis. Repeated ingestion may cause hemosiderosis, possible liver and pancreatic damage.	

SECTION 4 - FIRST AID MEASURES

Potential Health Effects

Eye:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.
Skin:	Get medical aid. Immediately flush skin with plenty of soap and cold water for at least
	15 minutes whileremoving contaminated clothing and shoes.
Ingestion:	(QUALIFIED MEDICAL PERSONNEL ONLY)if not in shock or coma, induce emesis and
	follow with gastric lavage using deferoxamine, 2 grams/liter solution containing
	20gram/liter sodium bicarbonate in water. Leave 10 grams deferoxamine in 50ml of 5%
	sodium bicarbonate in stomach. Treat for shock, maintain airway and blood pressure.
Inhalation:	Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move
	victim to fresh air.

Notes to Physician: Treat symptomatically and supportively.



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SECTION 5 - FIRE FIGHTING MEASURES

General Information:	Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust. Avoid corrosive vapors or hydrogen chloride formed by thermal decomposition.
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol- resistant foam.
Autoignition Temperature:	No information found.
Flash Point:	Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.
NFPA Rating:	CAS# 10025-77-1: Not published.
Explosion Limits:	Lower: Upper:
Mechanical Impact:	Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information:Use proper personal protective equipment as indicated in Section 8.Spills/Leaks:Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place
in plastic bags for later disposal. Do not get water inside container. Do not
touch spilled material. use water spray to reduce vapors. Call for
assistance on disposal.

SECTION 7 - HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

very hygroscopic. Do not store in metal containers. Protect from heat. Store in glass or approved plastic containers only, keep capped. Keep locked up and dry container. Keep it cool area. Do not store above 240C(760F) Don't ingest or breath. Never add water to this product.



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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Provide local exhaust or general dilution ventilation.
Exposure Limits:	Not available
OSHA Vacated PELs:	Not available

Personal Protective Equipment

Eyes:	Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-
Skin: Clothing:	proof safety goggles. Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (solid or lumps)
Color:	Yellow-orange to dark brown
Odor:	Slight hydrogen chloride
pH:	Acidic
Specific gravity:	1.82 (WATER = 1)
Vapor Pressure:	No information found.
Vapor Density:	No information found.
Evaporation Rate:	No information found.
Viscosity:	No information found.
Melting point:	37 0 (980 f)
Boiling Point:	536F
Freezing/Melting Point:	99F
Decomposition	
Temperature:	572F
Solubility in water:	Soluble.
Specific Gravity/Density:	1.82
Molecular Formula:	FeCl3.6H2O
Molecular Weight:	270.29



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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Conditions to Avoid: Incompatibilities with Other Materials: Hazardous Decomposition Products: Hazardous Polymerization: Corrosivity: Stable under normal temperatures and pressures. High temperatures, moisture. Oxidizing agents. Hydrogen chloride. Has not been reported Non corrosive in presence of glass.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS: LD50/LC50: Epidemiology: CAS# 10025-77-1: NO5425000. CAS# 10025-77-1:No information found. Ferric chloride, hexahydrate is an eye, mucous membrane, and skin irritant; poisoning affects digestive tract, respiratory, cardiovascular, and central nervous systems, liver and kidneys.

SECTION 12 - ECOLOGICAL INFORMATION

No information found.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State, and local regulations.



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SECTION 14 - TRANSPORT INFORMATION AS PER IATA

Shipping Name: Hazard Class: UN Number: Packing Group: Shiping containers: Shiping condition :

FERRIC CHLORIDE HEXAHYDRATE (LUMPS)

8 (CORROSIVE) UN-1773 PG III un approved drums/carboys/boxes keep containers closed and material below 350 C temp.

SECTION 15 - REGULATORY INFORMATION

FEDERAL AND STATE REGULATION

TSCA:

CAS# 10025-77-1 ferric chloride hexahydrate is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

SECTION 16 - OTHER INFORMATION

FEDERAL AND STATE REGULATION

MSDS Creation Date:	May 19, 2014
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