

MATERIAL SAFETY DATA SHEET – 16 Sections

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Ferric chloride		[WHMIS Classification] E	
Product Use Water treatment in industried			
Manufacturer's Name CHANGYI DAAN FINE CHEMICAL INDUSTRY CO.,LTD		Supplier's Name CHANGYI DAAN FINE CHEMICAL INDUSTRY CO.,LTD	
Street Address Haineng Economic Zone, Longchi Town, Changyi City, Shandong		Street Address Haineng Economic Zone, Longchi Town, Changyi City, Shandong	
City WEIFANG	Province SHANDONG	City WEIFANG	Province SHANDONG
Postal Code	Emergency Telephone 86-536-7206011	Postal Code	Emergency Telephone 86-536-7206011
Date MSDS Prepared 2015-1-4	MSDS Prepared by SUPPLIER	Phone Number 86-536-7206011	

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients <i>(specific)</i>	%	CAS Number	LD ₅₀ of Ingredient <i>(specify species and route)</i>	LC ₅₀ of Ingredient <i>(specify species)</i>
FERRIC CHLORIDE	96%	7705-08-0	Not available	Not available

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry Skin Contact Skin Absorption Eye Contact Inhalation Ingestion

[Emergency Overview]
After ferric chloride touch derma and eye, derma and eye must be washed immediately by fresh water for 15 minutes

[WHMIS Symbols]

[Potential Health Effects]
It has strong corrosive action, harm mucosa tissue, cause chemical pneumonia when absorbed powder of the product. It may cause chemical burns when touch skin, oral burns oral cavity and digestive tract, and cause strong abdominalgia, vomit. Chronic influence : may cause liver-kidney injured if long-term oraled.

SECTION 4 – FIRST AID MEASURES

Skin Contact	Put down the polluted clothes immediately, wash by flowing fresh water for 15 minutes at least, and then see the doctor.
Eye Contact	Washing by flowing fresh water or solution for 15 minutes at least.
Inhalation	Run away to the safety place from the site. Keep the respiratory tract smooth. Treat by oxygen therapy, if breathing meet difficulty, see the doctor immediately if the breath stopped.
Ingestion	Clear the mouth by water, and then drinking milk and pale blue. see the doctor.

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Product Identifier

SECTION 5 - FIRE FIGHTING MEASURES

Flammability	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions?
Means of Extinction		
Water, foam, or carbon		
Special Information		
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.		
[NFPA]		

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
Isolated the emit-polluted area, prohibiting in and out, suggesting the emergency person wear dust mask and protective clothing. Little leak: put into a dry, clear container with top, or washed by much water. Much leak: covered by plastic cloth, and then transport to waste treated place.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures and Equipment
Operateing airtightly, partial exhaust, the operator must be especially treated, and comply with the operator wear respirator against rush, gloves. Avoid producting dust, touch with oxidant, active metal powder. load and unload carefully, avoid packing and container damaged
Storage Requirements
Stored in dry ventilated houde. Keep away from fire, haet. sealed packing. Stored apart from oxidant, active metal powder. Should own liable material to store the leak

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits	<input checked="" type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL (Other (specify))
Specific Engineering Controls (such as ventilation, enclosed process)	Operating airtight, partially exhaust, supply safety shower and eye washing equipment.
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other

Product Identifier

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State solid	Odour and Appearance Greenish-brown crystal	Odour Threshold (ppm)
Specific Gravity	Vapour Density (air = 1) No information found	Vapour Pressure (mmHg) 1.1 @ 194C (381F)
Evaporation Rate No information found	Boiling Point (°C) No information found	Freezing Point (°C)
pH No information found	Coefficient of Water/Oil Distribution	[Solubility in Water] Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, under which conditions? In air
Incompatibility with Other Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones? oxygenate
Reactivity, and under what conditions? Will react with water to produce toxic and corrosive fumes.	
Hazardous Decomposition Products Emits toxic fumes of chloride when heated to decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure LD50: 1872mg/kg(big mouse by mouth)	
Effects of Chronic Exposure	
Irritancy of Product	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity - IARC	Carcinogenicity – ACGIH
Reproductive Toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Name of Synergistic Products/Effects	

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SECTION 12 – ECOLOGICAL INFORMATION

[Environmental Toxicity]
24 Hr LC50 striped bass (fingerling): 6 mg/L (static);
24 Hr LC50 striped bass (larvae): 4 mg/L (static)

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal
Disposal according to the national and local laws and rules. Or connecting the factory or manufacturer to confirm the Disposal method

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information	
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	PIN
Hazard Class: 8	[DOT]
[IMO]	[ICAO]
Proper Shipping Name: Corrosive Solid, Acidic, Inorganic, N.O.S. (Ferric Chloride, 6-Hydrate) Hazard Class: 8 Packing Group: III Information reported for product/size: 220LB	Proper Shipping Name: Corrosive Solid, Acidic, Inorganic, N.O.S. (Ferric Chloride, 6-Hydrate) Hazard Class: 8 Packing Group: III Information reported for product/size: 220LB

SECTION 15 – REGULATORY INFORMATION

[WHMIS CLASSIFICATION]	[OSHA]
E	
[SERA]	[TSCA] No

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 – OTHER INFORMATION

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0
Label Hazard Warning: danger! Corrosive. Causes burns to any area of contact. Harmful if swallowed or inhaled. Affects the liver.
Label Precautions: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

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