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SAFETY DATA SHEET

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Inspection No.:37000010212110510

1. Identification

Product Name

Iron(III) chloride, anhydrous

CAS-No Synonyms 7705-08-0 Ferric chloride

<u>Company</u>

Address Tel: 0532-82678303 Fax: 0532-82678303 Email: sales@ylsch-rbb.com QINGDAO YLSCH INDUSTRY&TRADE CO.,LTD. Qianwan Bonded Port Area, Qingdao Area, China (Shandong) Pilot Free Trade Zone

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call86 18661665800 After normal business hours, call Carechem 24 at 86 18661665800

2. Hazard(s) identification

Category 4 Category 2 Category 1 Category 1

<u>Classification</u> This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	
Skin Corrosion/Irritation	
Serious Eye Damage/Eye Irrita	ation
Skin Sensitization	

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Keep only in original container

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in corrosive resistant polypropylene container with a resistant inliner

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Iron(III) chloride	7705-08-0	100

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.		
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.		
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.		
Most important symptoms and effects	Causes eye burns. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surroundingfire.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available

Autoignition Temperature Explosion Limits Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>			
Health	Flammability	Instability	Physical hazards
2	0	1	N/A

	6. Accidental release measures
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust
	formation. Avoid contact with skin, eyes or clothing.
Environmental Precautions	Avoid release to the environment. See Section 12 for additional Ecological Information. Do
	not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

Storage

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Iron(III) chloride	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists **OSHA** - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations
	and safety showers are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			
	9. Physical and chemical properties			
Physical State	Powder Solid			
Appearance	Dark grey			
Ddor	Odorless			
Ddor Threshold	No information available			
H	2.0 (0.1M)			
lelting Point/Range	No data available			
Boiling Point/Range	315-319 ℃			
lash Point	No information available			
vaporation Rate	Not applicable			
lammability (solid,gas)	No information available			
lammability or explosive limits	S			
Upper	No data available			
Lower	No data available			
Vapor Pressure(kPa)	0.13@194C			
apor Density	Not applicable			
pecific Gravity	No information available			
olubility	No information available			
Partition coefficient; n-octanol/	water No data available			
utoignition Temperature				
Decomposition Temperature	>200 °C			
/iscosity	Not applicable			
Iolecular Formula	Cl3 Fe			
Iolecular Weight	162.21			
	10. Stability and reactivity			
Reactive Hazard	None known, based on information available			
Stability	Hygroscopic.			
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.			
ncompatible Materials	Strong oxidizing agents, Metals			
Hazardous Decomposition Proc	ducts Hydrogen chloride gas			

Hazardous Polymerization Hazardous polymerization does not occur.

Corrosive to metals.

Hazardous Reactions

11. Toxicological information

Acute Toxicity

Product Information

component mormation			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron(III) chloride	LD50 = >139<558 mg/kg (Rat)	>881 mg/kg	>0.3 mg/14h

Toxicologically Synergistic Products		No information available				
Delayed and immed	liate effects as w	vell as chronic effe	cts from short an	d long-term expo	<u>osure</u>	
Irritation		Causes eye burns; Irritating to skin				
Sensitization		May cause sensitiz	ation by skin cont	act		
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.			as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Iron(III) chloride	7705-08-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	ts	No information ava	ilable.			
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity		No information ava	ilable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ilable			
Symptoms / effects delayed	,both acute and	nd Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effects The toxicological properties have not been fully investigated.						

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Iron(III) chloride	Not listed	LC50: = 75.6 mg/L, 96h static (Gambusia affinis) LC50: 20.95 - 22.56 mg/L, 96h semi-static (Pimephales promelas) LC50: = 20.26 mg/L, 96h semi-static (Lepomis macrochirus)	Not listed	EC50: = 9.6 mg/L, 48h Statio (Daphnia magna) EC50: = 27.9 mg/L, 48h (Daphnia magna)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Iron(III) chloride	-4

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT		
UN-No	UN1773	
Proper Shipping Name	FERRIC CHLORIDE, ANHYDROUS	
Hazard Class	8	
Packing Group	111	
TDG		
UN-No	UN1773	
Proper Shipping Name	FERRIC CHLORIDE, ANHYDROUS	
Hazard Class	8	
Packing Group		
UN-No	UN1773	
Proper Shipping Name	FERRIC CHLORIDE, ANHYDROUS	
Hazard Class	8	
Packing Group	III 📃 📃	
IMDG/IMO		
UN-No	UN1773	
Proper Shipping Name	FERRIC CHLORIDE, ANHYDROUS	
Hazard Class	8	
Packing Group		
15. Regulatory information		

Regulations:This safety date sheet is in compliance with the following national standards:GB/T 16483-2008,GB 13690-2009,GB/T 15098-2008,GB 18218-2018,GB 15258-2009,GB 6944-2012,GB190-2009,GB/T 191-2008,GB 12268-2012,GBZ 2.1-2019 as well as the following national regulations:Dangerous goods transport administrative regulation,Dangerous chemicals safety administrative regulation.

16. Other information

References : UN Recommendations on the transport of drangerous goods model regulations UN globally harmonized system of classification and lableling of chemicals

Foem Date: 11-jan-2022

Disclaimer

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