Iron (III) Chloride, 10%

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Iron (III) Chloride, 10% Science education applications Ferric Chloride Solution Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



May be corrosive to metals. Harmful if swallowed. Harmful to aquatic life.

GHS Classification:

Substance or mixture corrosive to metals Category 1, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 4

Section 3	Composition	/ Information on Ing	redients
<u>Chemical Name</u> Water		CAS #	<u>%</u> 90
Iron (III) chloride		7705-08-0	10
Section 4	on 4 First Aid Measures		
Emergency and First Aid Procedur			
	In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eves, rinse immediately with plenty of water and seek medical advice.		
	After contact with skin, wash immediately with plenty of water.		
Ingestion: IF SWALL	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
Section 5	Fire	fighting Procedures	
Extinguishing Media:	Use media suitable	e to extinguish surrounding fire.	
Fire Fighting Methods and Protecti		wear full protective equipment an	d NIOSH approved self-contained
Fire and/or Explosion Hazards:			

Fire and/or Explosion Hazards: Hazardous Combustion Products:

Section 6

Spill or Leak Procedures

Hydrogen chloride

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Absorb spillage to prevent material damage.

Section 7 Handling and Storage Keep only in original container. Wash thoroughly after handling. Do no eat, drink or smoke when using this Handling: product. Avoid release to the environment. Store in corrosive resistant/... container with a resistant inner liner. Keep container tightly closed in a cool, well-Storage: ventilated place. Suitable for any general chemical storage.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

	ACGIH		<u>OSHA PEL</u>	
Chemical Name	(TWA)	<u>(STEL)</u>	(TWA)	<u>(STEL)</u>
Iron (III) chloride	1 mg/m3 TWA (as Fe)	N/A	N/A	N/A

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): **Respiratory Protection:** Eye Protection:

Skin Protection:

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Lab coat, apron, eye wash, safety shower.

Wear chemical splash googles when handling this product. Have an eve wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Vapor Pressure: No data available

Specific Gravity: No data available Solubility in Water: No data available

Viscosity: No data available

Evaporation Rate (BuAc=1): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Percent Volatile by Volume: No data available

Vapor Density (Air=1): No data available

Log Pow (calculated): No data available

No information available

Section 9

Gloves:

Physical Data

Formula: No data available Molecular Weight: No data available Appearance: Colorless Liquid Odor: None Odor Threshold: No data available **pH:** No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available

Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid: Incompatible Materials: **Hazardous Decomposition Products:** Hazardous Polymerization:

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials Hydrogen chloride Will not occur

Toxicity Data

Section 11

Symptoms (Acute): Delayed Effects:

No data available No data available

Acute Toxicity:

Chemical Name Water		CAS Number	Oral LD50 Oral LD50 Rat	Dermal LD50	Inhalation LC50
Iron (III) chloride		7705-08-0	90000 mg/kg Oral LD50 Rat 316 mg/kg Oral LD50 Mouse 200 mg/kg		
Carcinogenicity:				NTD	08114
Chemical Name No data available		CAS Number 7705-08-0	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mu No evidence of a ter No evidence of a ser No evidence of nega No data available No data available	atogenic effect (birth nsitization effect. ative reproductive eff			
Section 12		Ec	ological Data		
Overview: Mobility: Persistence:	Moderate ec No data No data	ological hazard. This	s product may be dange	erous to plants and/o	r wildlife.

Persistence: Bioaccumulation: Degradability: Other Adverse Effects:

Iron (III) Chloride, Anhydrous

CAS Number 7705-08-0

Not Determined

No data No data

No data

Eco Toxicity No data available 96 HR LC50 GAMBUSIA AFFINIS 75.6 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 9.6 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 27.9 MG/L

Section 13

Section 14

Chemical Name

Disposal Information

contact a permitted waste disposer (TSD) to assure compliance.

Disposal Methods:

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT. Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Dispose in accordance with all applicable Federal, State and Local regulations. Always

Regulatory Information Section 15 **TSCA Status:** All components in this product are on the TSCA Inventory. **Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ CAA 112(2) Number TQ 7705-08-0 Iron (III) chloride No 1000 lb 1000 lb final No No RQ RQ; 454 kg final RQ

California Prop 65:

No California Proposition 65 ingredients

Section 16 Additional Information

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Replaces: 06/15/2018

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health