Iron (II) Chloride

CAROLINA®

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Iron (II) Chloride Science education applications Iron (II) Chloride Tetrahydrate 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;

DANGER

Section 2



Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Oral Category 4

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Section 4

Composition / Information on Ingredients

CAS #

7758-94-3

Chemical Name Iron (II) Chloride, Tetrahydrate

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with
	water/shower. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse
	mouth. Do NOT induce vomiting.

Section 5

Firefighting Procedures

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

<u>%</u> 100

Firefighters should wear full protective equipment and NIOSH approved self-contained

Section 6	Spill or Leak Procedures
Fire and/or Explosion Hazards: Hazardous Combustion Products:	breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Hydrogen chloride

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Avoid the generation of dusts during clean-up. Isolate area. Keep unnecessary personnel away. 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. Do not flush spill to drain. Block any potential routes to water systems. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

 contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Avoid contact with skin and eyes. Use only in well-ventilated areas. Storage: Store locked up. Store in a secure area suitable for corrosives. 	ter				
when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from (incompatible materials to be indicated by the manufacturer). After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Avoid contact with skin and eyes. Use only in well-ventilated areas.					
Section 8 Protection Information					
ACGIH OSHA PEL					
Chemical Name(TWA)(STEL)(TWA)(STEL)Iron (II) Chloride, Tetrahydrate1 mg/m3 TWA (as Fe)N/AN/AN/A					
Control Parameters Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Additional area ventilation or locexhaust may be required to maintain air concentrations below recommended exposure limits.					
	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.				
Respirator Type(s): NIOSH approved full-face respirator as a minimum.	NIOSH approved full-face respirator as a minimum. Wear chemical splash goggles when handling this product. Have an eye wash station				
Skin Protection:Avoid skin contact by wearing chemically resistant gloves, an apron and other protectionequipment depending upon conditions of use. Inspect gloves for chemical break-throuand replace at regular intervals. Clean protective equipment regularly. Wash hands ar	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				
Gloves: Nitrile - Extra Thick (8 mm), Natural rubber, Neoprene, PVC or equivalent.					

Section 9

Physical Data

Formula: N/A Molecular Weight: 126.75 g/mol Appearance: Solid Odor: No data available Vapor Pressure: 10 mmHg at 700 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.93

Odor Threshold: No data available pH: No data available Melting Point: No data available 105 - 115 C Boiling Point: 1026 C Flash Point: No data available Flammable Limits in Air: N/A

Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Reactivity Data

Section 10 Reactivity: No data available **Chemical Stability:** Stable under normal conditions. Conditions to Avoid: Exposure to air. Keep lid tightly closed when not in use. Moisture (material is deliquescent). **Incompatible Materials:** Contact with (specify material) may form shock-sensitive materials, Potassium Metal, Sodium Metal **Hazardous Decomposition Products:** Hydrogen chloride Hazardous Polymerization: Will not occur Section 11 Toxicity Data Routes of Entry Inhalation, ingestion, eye or skin contact. Symptoms (Acute): N/A **Delayed Effects:** No data available Acute Toxicity: **Chemical Name** CAS Number Oral LD50 Dermal LD50 Inhalation LC50 Iron (II) Chloride, Tetrahydrate 7758-94-3 Oral LD50 Rat = Not determined Not determined 450 mg/kg Carcinogenicity: **Chemical Name CAS Number** IARC NTP **OSHA** No data available 7758-94-3 Not listed Not listed Not listed **Chronic Effects:** Mutagenicity: No evidence of a mutagenic effect. Teratogenicity: No evidence of a teratogenic effect (birth defect). Sensitization: No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects. Target Organ Effects: Acute: See Section 2 Chronic: Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited. Section 12 Ecological Data **Overview:** Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Mobility: No data Persistence: No data **Bioaccumulation:** No data Degradability: No data Other Adverse Effects: No data **Chemical Name CAS Number** Eco Toxicity Iron (II) Chloride, Tetrahydrate 7758-94-3 96 HR LC50 MORONE SAXATILIS 4 MG/L [STATIC] Section 13

Disposal Information

Disposal Methods:

Section 14

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

NA1759, Ferrous Chloride, Solid, 8, II

UN number: 3260 Class: 8 Packing group: II Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Iron dichloride)

Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Iron (II) Chloride, Tetrahydrate	7758-94-3	No	100 lb RQ	100 lb final RQ 45.4 kg final RQ	No	No

Section 16

Additional Information

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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	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	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