Iron (II) Sulfate, 0.1 M



Section 1

Product Description

Product Name: Iron (II) Sulfate, 0.1 M

Recommended Use: Science education applications Synonyms: Ferrous Sulfate, Water Solution Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

WARNING



Harmful if swallowed.

GHS Classification:

Acute Toxicity - Oral Category 4

Section 3

Composition / Information on Ingredients

Chemical Name CAS# 7732-18-5 98.48 Water Iron (II) Sulfate 7720-78-7 1.52

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of water. Skin Contact:

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

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Metal Oxides,

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Isolate area. Keep unnecessary personnel away. Remove soiled clothing and launder before reuse.

Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7

Handling and Storage

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Do not breathe dust/vapor.

Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use

Keep container tightly closed in a cool, well-ventilated place. Storage:

Green - general chemical storage Storage Code:

Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. **Respiratory Protection:**

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

Physical Data

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: Natural rubber, Neoprene, PVC or equivalent.

Section 9

Odor Threshold: No data available

Vapor Pressure: 14

Formula: N/A Molecular Weight: N/A Evaporation Rate (BuAc=1): < 1 Appearance: Colorless Liquid Vapor Density (Air=1): 0.7 Odor: None

Specific Gravity: Approx. 1.0 Solubility in Water: Soluble

pH: No data available Log Pow (calculated): No data available Melting Point: No data available 0 C Autoignition Temperature: No data available **Decomposition Temperature:** No data available **Boiling Point: 100 C**

Flash Point: No data available Viscosity: No data available Percent Volatile by Volume: 98.48% Flammable Limits in Air: N/A N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Strong alkalies, Oxidizers,

Hazardous Decomposition Products: Metal Oxides. **Hazardous Polymerization:** Will not occur

Section 11 Toxicitv Data

Inhalation, ingestion, eye or skin contact. Routes of Entry

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

CAS Number Oral LD50 **Dermal LD50 Chemical Name Inhalation LC50**

7732-18-5 Oral LD50 Rat Water 90000 mg/kg

Iron (II) Sulfate 7720-78-7 Oral LD50 Rat 319

mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7732-18-5Not listedNot listedNot listed

7720-78-7

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: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly

evaluated.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Iron (II) Sulfate 7720-78-7 96 HR LC50 POECILIA RETICULATA 925 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 152 MG/L

Section 13 Disposal Information

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

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

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for ground transport by US DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15 Regulatory Information

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

Iron (II) Sulfate 7720-78-7 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

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

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	NTP	National Toxicology Program
ACGIT	Industrial Hygienists	OSHA	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	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health