Iron (III) Nitrate, 9-Hydrate, 0.2M



Section 1

Product Description

Product Name: Iron (III) Nitrate, 9-Hydrate, 0.2M Recommended Use: Science education applications

Synonyms: Nitric Acid, Iron (3+) Salt; Iron (III) Nitrate, Nonahydrate; Iron Nitrate

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



Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Iron (III) Nitrate, 9-Hydrate
 7782-61-8
 8

 Water
 7732-18-5
 92

Section 4

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. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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: Boron Compounds, Sulfur Oxides, Nitrogen oxides, Metal Oxides,

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Avoid creating and inhaling dust.

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. Vacuum or sweep up material and place in a disposal container Reduce airborne dust and prevent scattering by moistening with water Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Do not allow the spilled product to enter public drainage system or open waterways.

Section 7 Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-

ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly

closed in a cool, well-ventilated place.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a Storage:

cool, well-ventilated place.

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

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: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

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

> 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. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Nitrile Gloves:

Section 9 **Physical Data**

Formula: This product is a mixture. Vapor Pressure: N/A

Molecular Weight: This product is a mixture. Evaporation Rate (BuAc=1): N/A Appearance: Yellow to Brown Liquid Vapor Density (Air=1): 14.0

Odor: No data available Specific Gravity: 1.684 Odor Threshold: No data available Solubility in Water: Soluble

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

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: N/A Percent Volatile by Volume: 0% at (21 °C)

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Organics,, Oxidizing materials

Hazardous Decomposition Products: Metal Oxides,, Nitrogen oxides, Sulfur Oxides, Boron Compounds

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

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

Symptoms (Acute): , Eye disorders, Respiratory disorders, Impaired Kidney Function, Liver disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Iron (III) Nitrate, 9-Hydrate7782-61-8Oral LD50 Rat =Not determinedNot determined

7732-18-5 3250 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7782-61-8Not listedNot listedNot listed

7732-18-5

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.

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife. Keep out of waterways.

Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

N/A 7782-61-8 7732-18-5

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 U.S. DOT.

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

Section 15 Regulatory Information

TSCA Status:A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) Number TQ

Section 16

Additional Information

Revised: 10/23/2015 Replaces: None Printed: 07-06-2016

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
	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