

IMPORTANT MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. SA 9527 M

Product Name **FERROUS (II) SULFATE
HEPTAHYDRATE**

SECTION I Principal Hazardous Component(s)

Ferrous Sulfate*

A chemical subject to the reporting requirements of SARA Title III.

SECTION II

Melting Point (°F)	Loses water @ 65°C	Specific Gravity (H ₂ O=1)	1.90
Boiling Point (°F)	Decomposes >300°C	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	No information found	Evaporation Rate (1)	No information found
Vapor Density (Air=1)	No information found		
Solubility in Water	48.6 g/100 g water @ 50°C (122°F)		
Appearance & Odor	Blue-green fine crystals; odorless.		

SECTION IV PHYSICAL AND CHEMICAL HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
			N/A	N/A
Extinguisher Media	Use any means suitable for extinguishing surrounding fire.			

Special Firefighting Procedures

Use protective clothing and breathing equipment appropriate for the surrounding fire.

Unusual Fire and Explosion Hazards

Not considered to be a fire hazard. Not considered to be an explosive hazard.

DEC 14 1995

D.O.T. Not Regulated

Health Hazard	1
Flammability	0
Reactivity	0

Chemical Synonyms	Iron(II) Sulfate
Formula	FeSO ₄ ·7H ₂ O
C.A.S. No.	7782-63-0

%	P.E.L.	TLV Units

ACGIH TLV for soluble iron salts: 1 mg (Fe) /m³ (TWA)

99162

Effects of Overexposure

Inhalation: Excessive inhalation of dust may be irritant to the respiratory tract. Ingestion: Low to in small quantities but larger dosages may cause nausea, vomiting, diarrhea, and black stool. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning have been recorded. Skin Contact: May cause mild irritation. Eye Contact: Contact may cause irritation, redness, and pain.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty. Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately. Skin Exposure: Wash exposed area with soap and water. Eye Exposure: Immediately flush eyes with plenty of water at least 15 minutes. Call a physician.

SECTION VI REACTIVITY DATA

Stability	Conditions to Avoid
Stable ☒ Unstable ☐	N/A
Incompatibility (Materials to Avoid)	Alkalies, soluble carbonates, and oxidizing materials. Reacts in moist air to form Ferric Sulfate.
Hazardous Decomposition Products	When heated to decomposition it emits toxic fumes of sulfur oxides.
Hazardous Polymerization	Conditions to Avoid
May Occur ☐ Will Not Occur ☒	N/A

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Ventilate area of leak or spill. Pick up and place in a suitable container for reclamation disposal in a method that does not generate dust.

Waste Disposal Method

(Exchange, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of bottle-size quantities. Whatever cannot be saved for reclamation may be disposed in a RCRA approved hazardous waste facility. Small amounts of residue be flushed to sewer with plenty of water, but this compound should not be sent to sewers or waterways without treatment.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	NIOSH-approved dust/mist respirator.			
Ventilation	Local Exhaust	X	Special	
	Mechanical (General)	X	Other	
Protective Gloves	Protective gloves		Eye Protection	Safety goggles
Other Protective Equipment	Lab coat. Maintain eye wash and shower facilities.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

N/A

Approved by Steven C. Quandt Effective Date 10/28/94 For laboratory use only. Not for household use. Keep out of reach of children.

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