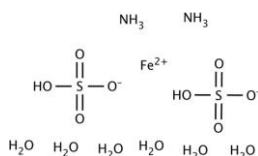


SECTION 1: Identification of the substance/preparation and of the company/undertaking

Identification of the Product

Product form	: Substance
Trade name	: AMMONIUM FERROUS SULPHATE HEXAHYDRATE
IUPAC name	: Ammonium iron (II) sulphate Hexahydrate
EC-No.	: 233-151-8
CAS-No.	: 7783-85-9
Formula	: (NH ₄) ₂ Fe(SO ₄) ₂ · 6H ₂ O
Chemical structure	:



Synonyms	: Ferrous ammonium sulphate Hexahydrate, Ammonium iron sulphate Hexahydrate
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Use of the Product/Preparation

Intended Use: Industrial/Professional laboratory chemical and manufacturing applications.

Details of the supplier of the safety data sheet

PHINE KEMIKALS INDIA
 Plot No. 1/2/3/90/P3A, G.I.D.C. Industrial Estate, Godhra, Gujarat 389002
 INDIA
 T +919824063593
 info@phinekem.in, www.phinekem.in

Emergency telephone number

Emergency number : + 919023930031 (24 hrs)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

SECTION 2: Composition/information on ingredients

Synonyms:	Mohr's salt	
CAS No:	7783-85-9	
M:	392.14 g/mol	EC No.:233-151-8
Chemical Formula:	(NH ₄) ₂ Fe(SO ₄) ₂ .6H ₂ O	

SECTION 3: Hazards Identification

This substance is not classified as dangerous as per European Union Legislation.

SECTION 4: First aid measures

Description of first aid measures

Inhalation: Move the affected person to fresh air and ensure they are comfortable for breathing. If feeling unwell, contact a poison control centre or doctor.

Skin Contact: Wash the affected area thoroughly with plenty of water. Remove and wash contaminated clothing before reuse. Seek medical advice if irritation occurs.

Eye Contact: Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Contact a poison control centre or doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed

Inhalation: May irritate the respiratory tract.

Skin Contact: Irritating to the skin.

Eye Contact: Causes severe eye irritation.

Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: Firefighting measures

Suitable Extinguishing Media: Use carbon dioxide, dry powder, foam, or water spray.

Unsuitable Extinguishing Media: Do not use a high-pressure water stream.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

Ensure firefighters are equipped with complete protective gear, including SCBA.

- Respiratory protection is mandatory when entering a fire area.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Emergency Response Procedures:

- **General Spill Response:**
 - Ventilate the spill area.
 - Evacuate unnecessary personnel.
- **General Ventilation:**
 - Ensure adequate ventilation in affected areas.
- **For Emergency Responders:**
 - Ventilate the affected area.

Protective Equipment for Emergency Responders:

- Do not attempt cleanup or response without appropriate protective equipment.
- Use required personal protective equipment (PPE).

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

Cleanup Procedures:

- Recover spilled material mechanically.
- Absorb any remaining spills with inert materials, such as clay or diatomaceous earth, promptly.
- For spills on land, sweep or shovel the material into appropriate containers.

Disposal:

- Dispose of contaminated materials and solid residues at an approved waste disposal facility.

SECTION 7: Handling and storage

Handling

Safe Handling Practices:

- Wear appropriate personal protective equipment (PPE).
- Avoid skin and eye contact.
- Use only in well-ventilated areas or outdoors.
- Avoid inhaling vapours or dust.

Hygiene Recommendations:

- Wash hands and exposed skin with mild soap and water before eating, drinking, smoking, and upon leaving the work area.
- Do not eat, drink, or smoke while using this product.
- Always wash hands thoroughly after handling the product.

Storage

Storage Conditions: Keep containers tightly closed. Keep in cool place.

SECTION 8: Exposure controls/personal protection

Exposure Controls/Personal Protection

Control Parameters

No Additional information available.

Engineering Controls:

- Ensure adequate ventilation of the work area.

Personal Protective Equipment (PPE):



- **Eye Protection:**
 - Wear chemical goggles or safety glasses.
- **Skin and Body Protection:**
 - Wear appropriate protective clothing.
- **Hand Protection:**
 - Wear chemical-resistant protective gloves.
- **Respiratory Protection:**
 - Wear an approved respirator if ventilation is inadequate.

Thermal Hazards:

- No specific thermal hazards are identified.

Environmental Exposure Controls:

- Prevent release into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical Properties:

- **State:** Solid
- **Color:** Greenish-blue
- **Appearance:** Crystalline powder or crystals
- **Molecular Weight:** 392.13 g/mol
- **Odor:** Odorless
- **Odor Threshold:** Not available
- **Melting Point:** Approximately 100 °C (decomposes)
- **Freezing Point:** Not applicable
- **Boiling Point:** Not available
- **Flammability:** Non-flammable
- **Explosive Limits:** Not applicable
 - Lower Explosive Limit (LEL): Not applicable
 - Upper Explosive Limit (UEL): Not applicable
- **Flash Point:** Not applicable
- **Auto-ignition Temperature:** Not applicable
- **Decomposition Temperature:** Not available
- **pH:** 3 – 5 (at 20 °C)
- **pH (5% Solution):** 5
- **Kinematic Viscosity:** Not applicable
- **Solubility (Water):** 26.9 g/100 mL (at 20 °C)
- **Partition Coefficient (n-octanol/water):** Not available
- **Vapor Pressure:** Not available
- **Vapor Pressure (at 50 °C):** Not available
- **Density:** 1.86 g/cm³ (at 20 °C)
- **Relative Density:** Not available
- **Relative Vapor Density (at 20 °C):** Not applicable
- **Particle Size:** Not available

SECTION 10: Stability and reactivity

Conditions to be avoided
Moisture.

Substances to be avoided
Increased reactivity with strong bases, oxidizing agent, soluble carbonates.

Hazardous decomposition products
In the event of fire: See chapter 5.

Further information
Light-sensitive; slightly hygroscopic, releases water of crystallization when heated, turns brownish-yellow on

exposure to moisture and oxidizing vapours.

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD50 (oral, rat): 3250 mg/kg (RTECS)

Sub-acute to chronic toxicity

Sensitization:

In animal experiments: negative (IUCLID)

Bacterial mutagenicity: Ames test: negative. (Lit.)

Further toxicological information

After skin contact: Slight irritations.

After eye contact: Slight irritations.

After swallowing of large amounts: bloody vomiting, diarrhea, drop in blood pressure.

Other notes:

The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

Further data

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects:

Biological effects:

Fish toxicity: No information available.

Further ecologic data:

Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

Waste Treatment Methods:

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Packaging:

Product packaging must be disposed of in compliance with the respective national regulations or must be passed to a packaging return system, if available.

SECTION 14: Transport information

Not Subject to transport regulations (ADR/RID, AND, IATA, IMDG)

SECTION 15: Regulatory information

Safety, Health and environmental regulations/legislation specific for the substance or mixture

Labeling according to EC Directives:

Symbol:	Xn	Harmful
R-phrases:	22	Harmful if swallowed.
S-phrases:	24/25	Avoid contact with skin and eyes.

Reduced labeling (1999/45/EC, Art. 10.4):

Symbol:	Xn	Harmful
R-phrases:	22	Harmful if swallowed.
S-phrases:	---	

SECTION 16: Other information

Reason for alteration

Not altered. Release 1.

Regional representation:

India: given in Chapter 1 (company identification)

Disclaimer:

This Safety Data Sheet (SDS) information is based on our current knowledge and is intended to describe the product for health, safety, and environmental purposes only. It should not be interpreted as a guarantee of any specific product property.