

# MATERIAL SAFETY DATA SHEET FERRIC SULPHATE MSDS

## Section 1: Chemical Product and Company Identification

Product Name: Ferric sulphate Catalog  
Codes: SLF1315, SLF1828  
CAS#: 10028-22-5 RTECS: NO8505000  
TSCA: TSCA 8(b) inventory: Ferric sulphate  
CI#: Not available.  
Synonym:  
Chemical Formula:  $\text{Fe}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$

## Section 2: Composition and Information on Ingredients

Composition	CAS#	% of Weight
Ferric sulphate	10028-22-5	100

Toxicological Data on Ingredients: Ferric sulphate LD50: Not available. LC50: Not available.

## Section 3: Hazards Identification

Potential Acute Health Effects: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS: Not available.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

## Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

## Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.  
Auto-Ignition Temperature: Not applicable.  
Flash Points: Not applicable.  
Flammable Limits: Not applicable.  
Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances:	Not applicable.
Explosion Hazards in Presence of Various Substances:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions:	Not applicable.
Special Remarks on Fire Hazards:	Not available.
Special Remarks on Explosion Hazards:	Not available.

### Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities

### Section 7: Handling and Storage

Precautions: Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes

Storage: No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

### Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: TWA: 1 CEIL: 2 (mg/m<sup>3</sup>) Consult local authorities for acceptable exposure limits

### Section 9: Physical and Chemical Properties

Physical state and appearance:	Solid.
Odour:	Not available.
Taste:	Not available.
Molecular Weight:	399.98 g/mole
Colour:	Not available.
pH (1% soln/water):	Not available.
Boiling Point:	Not available.
Melting Point:	Decomposes. (480°C or 896°F)
Critical Temperature:	Not available.
Specific Gravity:	3.097 (Water = 1)
Vapour Pressure:	Not applicable.
Vapour Density:	Not available.
Volatility:	Not available.

Odour Threshold:	Not available.
Water/Oil Dist. Coeff.:	Not available.
Iconicity (in Water):	Not available.
Dispersion Properties:	Not available.
Solubility:	Not available.

#### **Section 10: Stability and Reactivity Data**

Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Not available.
Incompatibility with various substances:	Not available.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Not available.
Special Remarks on Corrosivity:	Not available.
Polymerization:	No.

#### **Section 11: Toxicological Information**

Routes of Entry: Eye contact. Inhalation. Ingestion.  
Toxicity to Animals: LD50: Not available. LC50: Not available.  
Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.  
Other Toxic Effects on Humans: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).  
Special Remarks on Toxicity to Animals: Not available.  
Special Remarks on Chronic Effects on Humans: Not available.  
Special Remarks on other Toxic Effects on Humans: Not available.

#### **Section 12: Ecological Information**

Ecotoxicity: Not available. BOD5 and COD: Not available. Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
Toxicity of the Products of Biodegradation: The products of degradation are more toxic. Special Remarks on the Products of Biodegradation: Not available.

#### **Section 13: Disposal Considerations**

Waste Disposal:

#### **Section 14: Transport Information**

DOT Classification: Not a DOT controlled material (United States).  
Identification: : Not available. : NA9121 PG: III  
Special Provisions for Transport: Not available.

#### **Section 15: Other Regulatory Information**

Federal and State Regulations: Pennsylvania RTK: Ferric sulphate Massachusetts RTK: Ferric sulphate  
TSCA 8(b) inventory: Ferric sulphate CERCLA: Hazardous substances.: Ferric sulphate  
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
Other Classifications:  
WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).  
DSCL (EEC): R36/38- Irritating to eyes and skin.  
HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

#### **16. Other Information**

References: Not available.

Other Special Considerations: Not available.

#### **EXCLUSION OF LIABILITY**

All information and instructions provided in this Material Safety Data Sheet in respect of the substance is given solely in terms of the provisions of the Occupational Health and Safety Act No 85 of 1993 and Regulations ("the Act"), is based on scientific and technical knowledge as at the date indicated on this MS Material Safety Data Sheet and is presented in good faith to be correct.

The information and instructions provided in this MSDS apply only to the substance in its present form and not to any formulation or mix, in which event it is the sole responsibility of the user of the substance as formulated and/or mixed to investigate and establish any danger which may arise out of its use, wherever such user may be situated.

It is the sole responsibility of the person in receipt of this Material Safety Data Sheet wherever such recipient may be situated, to ensure that the information provided is communicated to and understood by any person who may come in contact with the substance in any place and in any manner whatsoever. If such recipient produces formulations or mixes using the substance, then it is such recipient's sole responsibility to comply with the provisions of the Act in respect of the provision of the necessary Material Safety Data Sheet, or to comply with any other applicable legislation.