

# SAFETY DATA SHEET

### 1. IDENTIFICATION

Product Name: Ferric Subsulfate
Synonyms: Iron subsulfate
CAS #: 1310-45-8

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: None

Details of the supplier of the safety data sheet

### Company

Lab Alley, LLC 12501 Pauls Valley Road, Suite A, Austin, TX 78737 U.S.A

Telephone 512-668-9918 Fax 512-886-4008

# **Emergency telephone**

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRACK
International: 1-352-323-3500 INFOTRACK

### 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

Not classified			

### Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Component	CAS No	Weight-%			
Ferric Subsulfate	1310-45-8	100			

### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye/skin irritation

gastroenteritis

May cause abdominal pain, nausea, vomiting, diarrhea

black-colored stool pink-colored urine

May affect the cardiovascular system Central nervous system effects

Drowsiness Convulsions lethargy

May affect the liver It may affect the kidneys May cause metabolic acidosis

### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

### Specific hazards arising from the chemical

Hazardous combustion products No information available.

Specific hazards No information available.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing.

**Environmental precautions** Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Prevent entry into waterways, sewers.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

**Methods for cleaning up**Use appropriate tools to put the spilled solid in a suitable waste disposal container.

Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Do not ingest. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Protect from light.

### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Sensitive to light. Store in light-resistant containers. Protect from light. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

### **Incompatible Materials:**

No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **National occupational exposure limits**

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Ferric Subsulfate	1310-45-8	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ferric Subsulfate	1310-45-8	None	None	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Ferric Subsulfate	1310-45-8	None	None

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Provide exhaust ventilation or other engineering controls to

keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

**Eye protection:** Goggles Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing

Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Powder. Yellow Brown.

Odor: Taste Formula

Practically odorless. No information available. FE4-(OH)2-(SO4)5

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

No information available no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

**Upper Explosion Limit (%):** 

No information available Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 
No information available

Density (g/cm3):

VOC content (q/L):

No information available

Viscosity:

Vapor pressure @ 20°C (kPa):

Boiling point/range(°C/°F): Bulk density:

No information available 
No information available 
No information available

Specific gravity: pH

No information available No information available No information available

**Evaporation rate:** Vapor density:

No information available No information available No information available

Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

No information available

Miscibility: Solubility:

No information available Soluble in hot water

Soluble in cold water

### 10. STABILITY AND REACTIVITY

Reactivity

No information available Chemical stability

Stability: Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended

storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to light.

Incompatible Materials: No information available

Hazardous decomposition

products:

Sulfur oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Principal Routes of Exposure:** 

Inhalation. Ingestion.

**Acute Toxicity** 

**Component Information** 

Ferric Subsulfate	
CAS No	1310-45-8

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

#### Symptoms

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of the respiratory tract and mucous membranes irritation.

**Ingestion** Larger doses may lead to iron poisoning and cause gastrointestinal tract irritation

(gastroenteritis) with nausea, retching & vomiting, abdominal pain, hypermotility, diarrhea, colic or constipation, and black stool. Liver damage and kidney failure have also been reported from iron poisoning. Pink urine discoloration is a strong indicator of iron poisoning. It may also affect behavior/Central Nervous System (seizures/convulsions, lethargy, drowsiness, hyporeflexia, coma), respiration, cardiovascular system (weak pulse, tachycardia, hypotension), metabolism (metabolic acidosis), and blood (leukocytosis). Note: Toxicity information was

exprapolated from Ferric sulfate, Ferrous sulfate, and Iron.

**Aspiration hazard** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** Prolonged eye contact may cause a brownish discoloration of the eyes. Ingestion:

Repeated high exposures may lead to iron build-up in the body (particularly in the liver, spleen, and lymphatic system) causing nausea, vomiting, stomach pain,

constipation or diarrhea, black bowel movements, mild lethargy, irritability, leukocytosis, normocytic anemia, hemochromatosis in the Kupfer cells of the liver or in the recticuloendothial cells of the bone marrow. Damage may occur to the spleen, lymphatic system, and liver (cirrhosis, hemsiderosis). Fibrosis or other damage may also occur to the pancreas. Symptoms may include hypoglycemia, hyperglycemia. Note: Toxicity information was extrapolated from Ferric Sulfate,

Ferrous Sulfate and Iron).

Sensitization:No information available.Mutagenic Effects:No information availableCarcinogenic effects:Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ferric Subsulfate	1310-45-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

### 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ferric Subsulfate	1310-45-8	None	None	None	None

### 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:

No information available
No information available

Packing group No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
No information available
No information available
No information available
No information available

**IATA** 

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
No information available

Response

Special Provisions No information available

### 15. REGULATORY INFORMATION

### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Ferric Subsulfate	1310-45-8	PresentACTIV E	Present KE-21089	Not present	Not present	Not listed	Present	Present 215-179-2

# **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Ferric Subsulfate	1310-45-8	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ferric Subsulfate	1310-45-8	None	None	None	None	None

### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Ferric Subsulfate	1310-45-8	Not Applicable	Not Applicable

### Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

Not a dangerous product according to HPR classification criteria

Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HP

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Ferric Subsulfate	1310-45-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Ferric Subsulfate	1310-45-8	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Ferric Subsulfate	1310-45-8	Not listed

### **EU Classification**

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Ferric Subsulfate	1310-45-8	

### EU - CLP (1272/2008)

### R-phrase(s)

not determined (not applicable)

### S -phrase(s)

none

Component	CAS No	Concentration Limits:	Safety Phrases
Ferric Subsulfate	1310-45-8	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

None

# **16. OTHER INFORMATION**

Date of Issue:2/15/2024Revision dateNone

### 17. DISCLAIMER

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.