

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Ferrous Ammonium Sulfate

CAS number 7783-85-9

Synonyms Ammonium iron (II) sulfate hexahydrate; Mohr's salt

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

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

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

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/IrritationCategory 2Serious Eye Damage/Eye IrritationCategory 2Specific Target Organ Toxicity (single exposure)Category 3

Target Organ(s) - Respiratory system

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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.

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.

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

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Ferrous ammonium sulfate	Ammonium iron (II) sulfate hexahydrate; Mohr's salt	7783-85-9	>95%	

#### **SECTION 4: First aid measures**

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# 4.1 Description of first-aid measures

General advice

If inhaled Remove to fresh air. Get medical attention. If not breathing, give artificial

respiration.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**If swallowed** Do NOT induce vomiting. Get medical attention.

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

No information available.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products: Nitrogen oxides (NOx). Sulfur oxides. Heavy metal oxides.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

## **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

# 6.2 Environmental precautions

Avoid release to the environment. Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

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Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from light. Store under an inert atmosphere.

## Incompatibilities

Strong oxidizing agents. Strong acids. Strong bases.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value		
Ferrous ammonium sulfate	(Vacated) TWA	1 mg/m3		

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value		
Ferrous ammonium sulfate	TWA	1 mg/m3		

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value		
Ferrous ammonium sulfate	TWA	1 mg/m3		

# Biological occupational exposure limits

No information available.

# 8.2 Exposure controls

## Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

# Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Respiratory protection**

No protective equipment is needed under normal use conditions.

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## Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid

Appearance Light green Odor Odorless

Odor Threshold No information available

pH 3-5 (5 %)
Melting Point/Range 100 °C / 212 °F

Boiling Point/Range No information available

Evaporation Rate Not applicable

Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density Not applicable

Density No information available

Solubility Partially soluble
Partition coefficient; No data available

n-octanol/water

Autoignition Temp No information available

Decomposition Temp 100 °C

Viscosity Not applicable

Molecular Formula H8FeN2O8S2 . 6 H2O

Molecular Weight 392.14 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Light sensitive. Air sensitive.

# 10.3 Possibility of hazardous reactions

None under normal processing.

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## 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to air. Exposure to light. Temperatures above 100°C.

# 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

# 10.6 Hazardous decomposition products

Nitrogen oxides (NOx), Sulfur oxides, Heavy metal oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

# **Acute toxicity**

No information available.

## Skin corrosion/irritation

Irritating to skin.

# Serious eye damage/eye irritation

Irritating to eyes.

# Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

# Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ferrous ammonium sulfate	7783-85-9	Not listed				

## Specific target organ toxicity - single exposure

Respiratory system.

# Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

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## 11.2 Additional Information

The toxicological properties have not been fully investigated..

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

# 12.2 Persistence and degradability

May persist based on information available.

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

**DOT (US)** Not regulated.

**IMDG** Not regulated.

IATA Not regulated.

# **SECTION 15: Regulatory information**

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# **US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not applicable.

# **SARA 304 Emergency release notification**

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

Acute Health Hazard.

#### SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

## **Safe Drinking Water Act**

Not regulated.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

# **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Not listed.

## **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

## US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Ferrous ammonium sulfate (CAS #7783-85-9).

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# **California Proposition 65**

Not listed.

# **SECTION 16: Other information**

Issue date: 03/13/2014 Revision 1: 12/04/2024

# **SECTION 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.

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