

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Ferrous Ammonium Sulfate 0.00282M

CAS number See Section 3

Synonyms No information available

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)

Not classified.

2.2 GHS Label elements, including precautionary statements

No labelling applicable.

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

None.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	No information available	7732-18-5	99.86%
Ferrous Ammonium Sulfate Hexahydrate	No information available	7783-85-9	0.11%
Sulfuric Acid, 96% w/w	No information available	7664-93-9	0.03%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Assure fresh air breathing. Allow the victim to rest.
In case of skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
In case of eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after ingestion: Nausea. Vomiting. Diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2 Specific hazards arising from the substance or mixture

Not flammable.

5.3 Special protective equipment and precautions for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. Do not enter fire area without proper protective equipment, including respiratory protection.

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
1	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Safety glasses. Gloves. Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

Avoid all unnecessary exposure. Do not eat, drink or smoke during use.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container closed when not in use. Protect from light.

Incompatibilities

Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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	Type	Value
Sulfuric Acid, 96% w/w	PEL (TWA)	1 mg/m ³

US. ACGIH Threshold Limit Values

Component	Type	Value
Ferrous Ammonium Sulfate Hexahydrate	TWA	1 mg/m ³ Iron salts, soluble, as Fe
Sulfuric Acid, 96% w/w	TWA	0.2 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

No information available.

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

Eye/face protection

Chemical goggles or safety glasses.

Skin protection

Wear protective gloves.

Body Protection

Wear protective gloves.

Respiratory protection

Wear appropriate mask.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical State	Liquid.
Appearance	Light green.
Odor	Odourless.
Odor Threshold	No data available.
pH	No data available.
Melting Point/Range	No data available.
Boiling Point/Range	No data available.
Evaporation Rate	No data available.
Flammability (solid)	No data available.
Flammability or explosive limit	
Upper	No data available.
Lower	No data available.
Vapor Pressure	No data available.
Vapor Density	No data available.
Density	No data available.
Solubility	Soluble in water.
Partition coefficient; n-octanol/water	No data available.
Autoignition Temp	No data available.
Decomposition Temp	No data available.
Viscosity	No data available.
Molecular Formula	No data available.
Molecular Weight	No data available.
VOC Content(%)	No data available.
Oxidizing properties	None.

9.2 Other safety information No data available.**SECTION 10: Stability and reactivity**

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Not established.

10.4 Conditions to avoid

Incompatible materials. Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong oxidizers. Strong bases.

10.6 Hazardous decomposition products

Gaseous ammonia. Sulfur compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ferrous Ammonium Sulfate Hexahydrate	Rat: 3250 mg/kg	Not listed	Not listed
Sulfuric Acid, 96% w/w	Rat: 2140 mg/kg bodyweight (Rat; Experimental value)	Not listed	Not listed
Water	Rat: ≥ 90000 mg/kg	Not listed	Not listed

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sulfuric Acid, 96% w/w	7664-93-9	1 - Carcinogenic to humans	-	-	-	-

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

Symptoms/injuries after ingestion: Nausea. Vomiting. Diarrhea.

SECTION 12: Ecological information

12.1 Toxicity

Sulfuric Acid, 96% w/w (7664-93-9)	
LC50 fishes 1	42 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h; Daphnia magna)
LC50 fishes 2	49 mg/l (48 h; Lepomis macrochirus)
TLM fish 1	42 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	6900 mg/l (24 h; Pseudomonas fluorescens)

12.2 Persistence and degradability

Sulfuric Acid, 96% w/w (7664-93-9): Biodegradability: not applicable.

12.3 Bio accumulative potential

Sulfuric Acid, 96% w/w (7664-93-9): Log Pow; -2.20 (Estimated value)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Dispose in a safe manner in accordance with local/national regulations.
Avoid release to the environment.

SECTION 14: Transport information

DOT (US) No dangerous good in sense of transport regulations.

IMDG No dangerous good in sense of transport regulations.

IATA No dangerous good in sense of transport regulations.

SECTION 15: Regulatory information

US federal regulations

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

Ferrous Ammonium Sulfate Hexahydrate (7783-85-9): Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Sulfuric Acid, 96% w/w (7664-93-9): Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Water (7732-18-5): Listed on the United States TSCA (Toxic Substances Control Act) inventory.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Ferrous Ammonium Sulfate Hexahydrate (7783-85-9): RQ (Reportable quantity, section 304 of EPA's List of Lists); 1000 lb.

Sulfuric Acid, 96% w/w (7664-93-9): RQ (Reportable quantity, section 304 of EPA's List of Lists); 1000 lb.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

No information available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No information available.

SARA 311/312 Hazardous

Immediate (acute) health hazard.

SARA 313 (TRI reporting)

No information available.

Other federal regulations

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

No information available.

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

No information available.

Safe Drinking Water Act

No information available.

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

No information available.

US state regulations

US. Massachusetts RTK - Substance List

No information available.

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

No information available.

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

No information available.

California Proposition 65

Strong inorganic acid mists containing sulfuric acid (Sulfuric Acid, 96% w/w; Cas: 7664-93-9) is listed on the California Proposition 65 list.

SECTION 16: Other information

Date of Issue: 12/12/2013

Revision Date: 7/31/2026

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.