## SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

#### **SECTION 1 - IDENTIFICATION**

Trade Name: **Ferrous Ammonium Sulfate** for Fe Catalog Number: 80-1260 (Vials) / 80-1261 (100g)
Product Description: Analyzed Quantitative Unknowns

Manufacturer: Auric Enterprises, Inc.

d/b/a Thorn Smith Laboratories

Address: 7755 Narrow Gauge Road

Beulah, MI 49617

Phone Number: 231-882-4672 SDS Number: TSL-005

#### SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ferrous Ammonium Sulfate Hexahydrate

Formula:  $(NH_4)_2Fe (SO_4)_2 \cdot 6H_2O$ 

CAS No.: 7783-85-9

Common Synonyms: Ammonium Ferrous Sulfate (Hexahydrate)

OSHA PEL: TWA 1 mg/m $^3$  (Fe) ACGIH TLV: TWA  $1/m^3$  (Fe)

Soluble Sulfate:

Formula: Na<sub>2</sub>SO<sub>4</sub> CAS No.: 7757-82-6 OSHA PEL: N/E

ACGIH TLV: N/E

OTHER LIMITS:N/A

# **SECTION 2 – HAZARDS IDENTIFICATION**

**Classification of Substance or Mixture:** Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

**GHS Label Elements, including precautionary statements:** Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

**Potential Acute Health Effects:** May be hazardous in case of f ingestion and inhalation. May be slightly hazardous in case of eye and skin contact (irritant).

Potential Chronic Health Effects: CARCENOGENIC EFFECTS: N/A

MUTAGENIC EFFECTS: N/A
TERATOGENIC EFFECTS: N/A
DEVELOPMENTAL TOXICITY: N/A

#### SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ferrous Ammonium Sulfate Hexahydrate

Formula:  $(NH_4)_2Fe (SO_4)_2 \cdot 6H_2O$ 

CAS No.: 7783-85-9

Common Synonyms: Ammonium Ferrous Sulfate (Hexahydrate)

OSHA PEL: TWA 1 mg/m $^3$  (Fe) ACGIH TLV: TWA  $1/m^3$  (Fe)

Soluble Sulfate:

OTHER LIMITS: N/A

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# **SECTION 4 – FIRST AID MEASURES**

Eye Contact: Check for and remove contact lenses. Flush with plenty of water for at least 15 minutes,

lifting upper and lower eyelids occasionally. Seek medical attention.

**Skin Contact:** Remove any contaminated clothing. Wipe off excess from skin.

Flush skin with water. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

**Ingestion:** If swallowed, and if person is conscious, immediately rinse mouth with plenty of water. DO NOT induce vomiting. Get medical attention.

#### **SECTION 5 – FIRE FIGHTING MEASURES**

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Flammability: Non-Flammable
Flash Points: Not Applicable
Auto-Ignition: Not Applicable

**Flammable Limits:** N/A

Extinguishing Media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media: Do not use heavy water stream.

**Fire Fighting Procedure:** Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes. Avoid fire-fighting water entering into environment.

	SECTION 6 – ACCIDENTAL RELEASE MEASURES
1	Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Sweep up or shovel spills in a m hat does not disperse dust into the air. Prevent entry into sewers or public waters. Dispose of in accordance to all applederal, state and local regulations.
	SECTION 7 – HANDLING AND STORAGE
	Storage Temperatures: Store at ambient temperatures.  Shelf Life: Unlimited in tightly closed container in a dry and well-ventilated place.  Special Sensitivity: Store away from strong acids, sources of ignition, and direct sunlight.  Precautions to be taken in handling and storage: Do not breathe dust. Avoid contact with skin and eyes. Wear suit protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
	SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION
]	Respiratory Protection (Specify Type): For nuisance exposures use N95 type repirator. If airborne Concentration is high, use an appropriate NIOSH approved cartridge respirator.  Protective Gloves: Wear protective gloves.  Eye Protection: Wear chemical safety glasses.  Ventilation To Be Used: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possil  _X Local ExhaustX Mechanical (General) Special
]	Other (Specify) Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye was stabould be available. Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed not in use. Use with adequate ventilation. Wash thoroughly after handling. Do not let product enter drains.
	SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES
	Physical Form: Solid Color: Greenish-blue
(	Odor: Odorless Boiling Point: N/A
]	Melting Point: 100°C (212°F) (NH <sub>4</sub> ) <sub>2</sub> Fe (SO <sub>4</sub> ) <sub>2</sub> •6H <sub>2</sub> O; 884°C (1623°F) Na <sub>2</sub> SO <sub>4</sub> Flash Point: N/A
;	Solubility in Water: 26.9g/100cc water (NH <sub>4</sub> ) <sub>2</sub> Fe (SO <sub>4</sub> ) <sub>2</sub> •6H <sub>2</sub> O; Appreciable (More than 10%) Na <sub>2</sub> SO <sub>4</sub> Specific Gravity: 1.86g/cm <sup>3</sup> (water=1) (NH <sub>4</sub> ) <sub>2</sub> Fe (SO <sub>4</sub> ) <sub>2</sub> •6H <sub>2</sub> O; 2.68 Na <sub>2</sub> SO <sub>4</sub>

# SECTION 10 - STABILITY AND REACTIVITY

Conditions to Avoid: Hum Incompatibility (Materials acids, strong bases. Hazardous Decomposition	to avoid): Carbon Monoxide, Carbon Dioxide; Aluminum, magnesium, mineral acids,
	SECTION 11 – TOXICOLOGICAL INFORMATION
Carcinogenicity {	irritation. Causes skin irritation. Causes respiratory irritation.  (NH <sub>4</sub> ) <sub>2</sub> Fe (SO <sub>4</sub> ) <sub>2•</sub> 6H <sub>2</sub> O, - Na <sub>2</sub> SO <sub>4</sub> } this product are listed by IARC, ACGIH, NTP, OSHA, or CA Prop 65.
	SECTION 12 – ECOLOGICAL INFORMATION
Persistance – degradability	y: Biodegradable  SECTION 13 – DISPOSAL CONSIDERATIONS
Avoid release to the environ environmental regu	ment. Dispose of in accordance with all applicable local, state and federal lations.
	SECTION 14 – TRANSPORTATION INFORMATION
Domestic (D.O.T.)	Chemicals, n.o.s.
Proper Shipping Name:	
Proper Shipping Name:  International (T.M.O.)  Proper Shipping Name:	Chemicals, n.o.s.

SARA TITLE III HAZARD CATEGORIES AND LISTS

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.\

## **SARA 313 Toxic Chemicals**

Sodium Sulfate

## **CERCLA Hazardous Substance**

Ferrous Ammonium Sulfate

**TSCA Inventory** 

Sodium Sulfate

#### **SECTION 16 – OTHER INFORMATION**

No information found.

Date Prepared: October 2, 1989
Date of Last Revision: November 11, 2020

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