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:	$(NH_4)_2Fe\ (SO_4)_2 \bullet 6H_2O$
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_2SO_4
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

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Soluble Sulfate:

Formula:	Na_2SO_4
CAS No.:	7757-82-6
OSHA PEL:	N/E
ACGIH TLV:	N/E
OTHER LIMITS:	N/A

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

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.

Special Hazards arising from substance or mixture: Under fire conditions, hazardous fumes will be present.
Fire/Explosion Hazards: No Data Available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Sweep up or shovel spills in a manner that does not disperse dust into the air. Prevent entry into sewers or public waters. Dispose of in accordance to all applicable federal, 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 suitable 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 possible.
__X__ Local Exhaust __X__ Mechanical (General) _____ Special
_____ Other (Specify)
Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye was stations should be available.
Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when 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: 100ºC (212ºF) $(NH_4)_2Fe(SO_4)_2 \bullet 6H_2O$; 884ºC (1623ºF) Na_2SO_4
Flash Point: N/A
Solubility in Water: 26.9g/100cc water $(NH_4)_2Fe(SO_4)_2 \bullet 6H_2O$; Appreciable (More than 10%) Na_2SO_4
Specific Gravity: 1.86g/cm^3 (water=1) $(NH_4)_2Fe(SO_4)_2 \bullet 6H_2O$; 2.68 Na_2SO_4

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: __X__ Stable _____ Unstable
Conditions to Avoid: Humidity
Incompatibility (Materials to avoid): Carbon Monoxide, Carbon Dioxide; Aluminum, magnesium, mineral acids, strong acids, strong bases.
Hazardous Decomposition Products: Oxides of sulfur may form when heated to decomposition.
HAZARDOUS POLYMERIZATION: _____ May Occur __X__ Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Irritation:
Causes serious eye irritation. Causes skin irritation. Causes respiratory irritation.

Carcinogenicity {$(NH_4)_2Fe(SO_4)_2 \bullet 6H_2O$, - Na_2SO_4}
No components of this product are listed by IARC, ACGIH, NTP, OSHA, or CA Prop 65.

SECTION 12 – ECOLOGICAL INFORMATION

Persistance – degradability: Biodegradable

SECTION 13 – DISPOSAL CONSIDERATIONS

Avoid release to the environment. Dispose of in accordance with all applicable local, state and federal environmental regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Domestic (D.O.T.)
Proper Shipping Name: Chemicals, n.o.s.

International (T.M.O.)
Proper Shipping Name: Chemicals, n.o.s.

Air (I.C.A.O.)
Proper Shipping Name: Chemicals, n.o.s.

SECTION 15 – REGULATORY INFORMATION

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
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