

**SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES**

SECTION 1 - IDENTIFICATION

Trade Name: **Iron Oxide** for Fe
Catalog Number: 80-1300 (Vials) / 80-1301 (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-007

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

Warning!! Harmful if inhaled. Affects respiratory system. May cause irritation to eyes and respiratory tract

Potential Acute Health Effects:

Inhalation of dust may cause irritation to upper respiratory tract. Large ingested doses may cause gastrointestinal irritation. May cause irritation to eyes and skin.

Potential Chronic Health Effects:

May cause lung damage, elevated blood pressure and accelerated respiration rate.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ferric Oxide

Formula: Fe_2O_3
CAS No.: 1309-37-1

Sodium Chloride

Formula: NaCl
CAS No.: 7647-14-5
% by Weight: < 60

SECTION 4 – FIRST AID MEASURES

Eye Contact: Do not rub eye(s). Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, seek medical attention.

Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation: If a person breathes in large amounts, 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 give large amounts of water. Get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Iginition: Not Applicable

Flammable Limits: N/A

Extinguishing Media: Use extinguishing media appropriate to the surrounding fire.

Fire Fighting Procedure: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes.

Fire/Explosion Hazards: Toxic gases produced: iron fumes, hydrogen chloride.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Utilize suitable protective clothing and equipment. Carefully sweep up and remove. Dispose in accordance to all applicable local, state and federal environmental regulations.

SECTION 7 – HANDLING AND STORAGE

Storage Temperatures: Store at ambient temperatures.

Shelf Life: Unlimited in tightly closed container. Suitable for any general chemical storage area.

Special Sensitivity: No information available.

Precautions to be taken in handling and storage: Store in accordance with all local, state, and federal environmental regulations.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Type): None where adequate ventilation conditions exist. If airborne Concentration is high, use an appropriate respirator or dust mask.

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.

Local Exhaust Mechanical (General) Special
 Other (Specify)

Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye wash 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Powder
Color: Red to Reddish-brown powder (Fe₂O₃); White crystalline solid (NaCl).
Odor: Odorless
Molecular Weight: N/A
Boiling Point: N/A
Melting Point: 2575°C (1413°F) (NaCl)
Solubility in Water: Negligible (less than 0.1%) (Fe₂O₃); Appreciable (More than 10%) (NaCl).
Water Reactive: No
Vapor Density (Air-1): <1 (NaCl)
Evaporation Rate (-1): N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable Unstable
Conditions to Avoid: Humidity. Stable under ordinary conditions of use and storage.
Incompatibility (Materials to avoid): Hydrazine, calcium hypochlorite, performic acid, strong oxidizing agents, lithium, inter-halogens, iron, cement.
Hazardous Decomposition Products: Hydrogen chloride.
HAZARDOUS POLYMERIZATION: May Occur Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure: Eye Contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: Ferric Oxide: LD50 (ipr-rat) 5500 mg/kg; LD50 (ipr-mouse) 5400 mg/kg.
Sodium Chloride LD50 (oral-rat) 3000 mg/kg; LD50 (ipr-mouse) 2602 mg/kg;
LD50 (scu-mouse) 3150 mg/kg; LD50 (iv-mouse) 645 mg/kg.
Chronic Toxic Effects: Lung damage, elevated blood pressure and accelerated respiration rate.
Acute Toxic Effects: Inhalation of dust may cause irritation to upper respiratory tract. Ingestion may cause gastrointestinal irritation. May cause irritation to eyes and skin.
Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: No

SECTION 12 – ECOLOGICAL INFORMATION

Not Known

SECTION 13 – DISPOSAL CONSIDERATIONS

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

Non-regulated.

SARA TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No
Reactivity: No

SECTION 16 – OTHER INFORMATION

No information found.

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