SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

SECTION 1 - IDENTIFICATION

Trade Name: **Copper Ore** for Cu

Catalog Number: 80-1200

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-019

SECTION 2 – HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects: CARCENOGENIC EFFECTS: N/A

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

The substance is toxic to lungs and mucous membranes. Repeated or prolonged exposure to the substance can

produce target organs damage.

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Cupric Oxide

Formula: CuO Formula Weight: 79.55 g/mol CAS No.: 1317-38-0

Common Synonyms: Cupric Oxide, Copper (II) Oxide OSHA PEL: TWA-0.1 mg/m³ (Copper fumes) TWA=0.2mg/m³ (Copper fumes)

Limestone Standard

Formula: Primary carbonates of calcium, magnesium. Non-hazardous.

CAS No.: N/A

OSHA PEL: TWA 10mg/m³

ACGIH TLV: N/E OTHER LIMITS: N/A

SECTION 4 – FIRST AID MEASURES **Eve 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-Iginition:** Not Applicable Flammable Limits: **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. Special Hazards arising from substance or mixture: No data available. 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. Place spilled solid in a convenient waste disposable container. Finish cleaning by spreading water on the contaminated surface and 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:** Keep away from incompatible materials. Precautions to be taken in handling and storage: Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

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.
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 ExhaustX 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
Flash Point: N/A Solubility in Water: Ins	ck 55 g/mole g Point: 1336°C (2737°F)
	SECTION 10 – STABILITY AND REACTIVITY
Hazardous Decomposit	X Stable Unstable Moisture rials to avoid): Reducing agents, hydrogen sulfide gas, aluminum, alkali metals, powdered metal tion Products: Copper Oxides MERIZATION: May OccurX_ Will Not Occur
	SECTION 11 – TOXICOLOGICAL INFORMATION
Routes of Exposure: Toxicity Data:	Eye Contact. Ingestion. Inhalation. Toxicity to Animals: LD50 – N/A Chronic Effects on Humans: This substance is toxic to lungs, mucous membranes. Other Toxic Effects on Humans: Hazardous in case of ingestion, inhalation. Slightly hazardous in case of skin contact (irritant). Special Remarks on Chronic Effects on Humans: N/A Special Remarks on other Toxic Effects on Humans: N/A
	SECTION 12 – ECOLOGICAL INFORMATION
Products of Biodegradation: Podegradation products ma	ossibly hazardous short term degradation products are not likely. However, long term by arise.
	legradation: The products of degradation are as toxic as the original product. xic to aquatic life with long lasting effects.
	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

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 304 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 304.

SARA 311 Components

Acute Health Hazard.

SARA 312 Components

Acute Health Hazard

SARA 313 Components

Toxic chemical notification and release reporting: Cupric Oxide

WHMIS - Canada

Class D-1B: Poisonous and infectious material - Immediate and serious effects - Toxic

Class D-2A: Material causing other toxic effects (VERY TOXIC) Class D-2B: Poisonous and infectious material – Other effects – Toxic

SECTION 16 - OTHER INFORMATION

HMIS Rating

Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: E

NFPA Rating

Health Hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0 Date Prepared: October 2, 1989
Date of Last Revision: June 15, 2014

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