## SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

# SECTION 1 - IDENTIFICATION

Trade Name: **Copper Oxide** for Cu

Catalog Number: 80-1230 (Vials) / 80-1231 (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-008

#### **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:** 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

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Cupric Oxide

CAS No.:

Formula: CuO Formula Weight: 79.55 g/mol

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

1317-38-0

Sodium 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 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: 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:** Copper Oxides

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. 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 skin and eyes. Wear suitable

protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment .

#### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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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.

_X_ Local ExhaustX_ Mechanical (General) Special Other (Specify)	
Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers an	d eye was
hould be available.	1
<b>Hygienic Work Practices:</b> Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep contact in use. Use with adequate ventilation. Wash thoroughly after handling. Do not let product enter drains	
for in use. Ose with adequate ventuation. Wash thoroughly after handling. So not let product enter drains	
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	•
Physical Form: Powder	
Color: Gray to Black	
Odor: Odorless	
Boiling Point: N/A Melting Point/Freezing Point: 1326°C (2419°F) CuO; 884°C (1623°F) Na <sub>2</sub> SO <sub>4</sub>	
Flash Point: N/A	
Solubility in Water: Negligible (less than 0.1%) CuO; Appreciable (More than 10%) Na <sub>2</sub> SO <sub>4</sub>	
Specific Gravity: 6.40g/cm <sup>3</sup> (water=1) CuO; 2.68 Na <sub>2</sub> SO <sub>4</sub>	
SECTION 10 – STABILITY AND REACTIVITY	
STABILITY:X_ Stable Unstable Conditions to Avoid: Humidity	
(ncompatibility (Materials to avoid): Aluminum, magnesium, mineral acids, strong acids, strong bases.	
Hazardous Decomposition Products: Oxides of sulfur may form when heated to decomposition.	
HAZARDOUS POLYMERIZATION: May OccurX_ Will Not Occur	
SECTION 11 TOYICOLOCICAL INFORMATION	
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute Toxicity (CuO)	
Acute Toxicity (CuO) LD50 Oral – Rat – >2500 mg/kg	
Acute Toxicity (CuO) LD50 Oral – Rat – >2500 mg/kg (OECD Test Guideline 423)	

Skin corrosion/irritation (CuO) Skin-Rabbit

Results: No skin irritation (OECD Test Guideline 404)

 $\begin{array}{l} \textbf{Serious Eye Damage/Eye Irritation (CuO)} \\ \textbf{Eyes} - \textbf{Rabbit} \end{array}$ 

Results: Mild eye irritation (OECD Test Guideline 405)

## Respiratory or skin sensitization (CuO)

Maximisation Test (GPMT) – Guinea pig Does not cause skin sensitization (OECD Test Guideline 406)

# Germ Cell Mutagenicity (CuO)

Not Date Available

#### Carcinogenicity (CuO, Na<sub>2</sub>SO<sub>4</sub>)

No components of this product are listed by IARC, ACGIH, NTP, OSHA, or CA Prop 65.

#### SECTION 12 – ECOLOGICAL INFORMATION

Other Adverse Effects: Very toxic to aquatic life with long lasting effects. (CuO)

#### 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

Regulatory information pertains to Cupric Oxide component only, this product is a mixture of Cupric Oxide and Sodium Sulfate.

TSCA Listed: Yes

**DSL Listed**: Yes

**Regulation (EC) No 1272/2008 (CLP)**: Eye damage/irritation, category 2A, Specific target organ toxicity - single exposure, category 3, Hazardous to the aquatic environment - acute hazard, category 1, Hazardous to the aquatic environment - chronic hazard, category 1.

WHMIS 2015 Classification: Serious eye damage/eye irritation, Specific target organ toxicity - single exposure.

**HMIS** Ratings: Health: 1 Flammability: 0 Physical: 0 NFPA Ratings: Health: 1 Flammability: 0 Instability: 0

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

# **SECTION 16 – OTHER INFORMATION**

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

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