

LTS Research Laboratories, Inc. Safety Data Sheet Copper Oxide

1. Product and Company Identification

Trade Name: Copper Oxide

Chemical Formula: CuO

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont
State: North Carolina

Zip Code: 28012 Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P273: Avoid release to the environment

P391: Collect spillage

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 0 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Copper (II) oxide, Cupric oxide

Copper Oxide (CuO)

Percentage: 100 wt% CAS #: 1317-38-0 EC #: 215-269-1

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. **Special Treatment:** None N/A **Important Symptoms:** Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek medical attention. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing. Seek medical attention. 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires – use CO₂, sand, extinguishing powder. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Check gloves prior to each use Eye Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. P	hysical and Chemical Characteristics
Color	Black
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	1326 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	$6.3-6.49 \text{ g/cm}^3$
Molecular weight:	79.55 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Metal powders, Alkali metals, Aluminum/aluminum alloys,
	Magnesium/magnesium alloys, Oxidizing agents
Incompatible Conditions:	Excess heat. Avoid dust formation
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A Besearch
	Maratories, Inc.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Very toxic to aquatic life with long lasting effects
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Copper oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

N/A

Sec 313 Toxic Chemicals:

Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Research

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