

SAFETY DATA SHEET

Compliant with GHS Guidance

SECTION 1. Identification of the Substance and Manufacturer

Product: **13600 Series Cupric Oxide**
Copper (II) Oxide

Common uses: Industrial chemicals

Manufacturer: American Chemet Corporation www.chemet.com
145 Highway 282 / P.O. Box 1160
East Helena, MT 59635 U.S.A.
+1(406) 227-5302 (Phone) +1(406) 227-8047 (Fax)

24-Hour Emergency: CHEMTREC
Domestic North America +1-800-424-9300
International +1-703-527-3887 (collect calls accepted)

Local Contact (if Applicable):

SECTION 2. Hazard Identification

Classification System:

The classification is based on the criteria in the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS). No classification and no labeling required.

Primary Routes of Entry:

Inhaled Skin/Eye Swallowed Injected

Signs, symptoms and effects of overexposure:

- Nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox); fever, eye irritation with redness, pain and conjunctivitis.
- Pre-existing lung disease may be aggravated by exposure. Could result in respiratory disease if overexposed on a chronic basis.

SECTION 3. Composition/Information of Ingredients

Ingredient	%	CAS No.
Cupric Oxide	98%	1317-38-0
Cuprous Oxide	1.5%	1317-39-1

SECTION 4. First Aid Measures

INHALATION: Remove to fresh air. Lay patient down. Cover with blanket.
 INGESTION: Give 200-300 mL water to drink. DO NOT induce vomiting.
 SKIN CONTACT: For skin exposure, remove contaminated clothing and wash with soap and water.
 EYE CONTACT: If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes.
 MEDICAL NOTES: If any adverse symptoms persist seek immediate medical attention.

SECTION 5. Fire-Fighting Measures

Extinguishing Media: CO₂, ABC extinguisher, or water spray.
 Special Fire Fighting Procedures: Separate from mass. Eliminate oxygen. Material is non-flammable. Use firefighting measures appropriate to surrounding materials.
 Additional Information: Collect contaminated fire fighting water separately. It must not enter the sewer system.
 Personal Protective Equipment: Wear self-contained breathing apparatus.

SECTION 6. Accidental Release Measures

Personal Precautions: Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection.
 Environmental Precautions: Do not allow to enter drains or watercourses. If the product enters drains or sewers, immediately inform the local water company. Where there is contamination of streams, rivers or lakes, contact local agency with responsibility for the environment.
 Methods for Clean Up: Contain spillages and clean up with vacuum or conventional tools and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance with local and national waste regulations.

SECTION 7. Handling and Storage

Handling: Only use in a well-ventilated area and prevent the creation of dusts. If concentrations exceed the occupational exposure limits, use suitable respiratory protection.
 Storage: Store in a cool, dry, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep lids of container tightly sealed.

SECTION 8. Exposure Controls/Personal Protection

Occupational Exposure Standards: Copper as dusts & mist :
OSHA PEL & ACGIH TLV
1 mg/m³ 8-hour TWA

Occupational Exposure Controls: All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations.
Ventilation: To keep below the U.S.A. OSHA exposure limits, use general dilution type ventilation.

Personal Protection
Respiratory Protection:



Cartridge type particulate filter respirator or dust-mask conforming to U.S.A. NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.

Hand Protection:



Wear if skin contact is probable and skin is sensitive.

Eye Protection:

Safety glasses or goggles.

Skin Protection:

Long sleeve shirt(s) if contact is probable and skin is sensitive.

Environmental Protection:

Do not allow to enter drains or watercourses.

SECTION 9. Physical and Chemical Properties

Appearance:	Black Fine Powder	Vapor Pressure:	NA
Odour:	None	Vapour Density:	NA
Boiling Point:	NA	Evaporation Rate:	NA
Melting Point:	1326 °C	Solubility in Water:	Negligible(<0.1%)
Specific Gravity(H ₂ O=1)	6.4	Percent Volatile (v/v)	0%

SECTION 10. Stability and Reactivity

Stable X Unstable _____

Conditions & Materials to Avoid:

- Under certain conditions CuO may react violently with strong reactants such as acids and bases.

Hazardous Decomposition Products: Copper fumes will be released if heated above its melting point (1326 °C).

Hazardous Polymerization: Will Not Occur

SECTION 11. Toxicological Information

Acute Toxicity

Oral (Rat): Not classified.

Skin Irritation: Not classified as a skin irritant

Dermal (Rabbit): Not classified

Eye Irritation: Not classified as an eye irritant

Inhalation (Rat): Not classified

Sensitization: Not classified as a dermal sensitizer

SECTION 12. Ecological Information

Prevent from entering drains, sewers, and surface water.

SECTION 13. Disposal Considerations

PACKAGING: Dispose of in accordance with procedures applying to the disposal of the product.

PRODUCT: Dispose of surplus and contaminated materials (including sawdust) at an approved landfill or in accordance with other national or regional provisions.

SECTION 14. Transportation Information

US DOT: Not regulated.

Proper Shipping Name: Not regulated.

SECTION 15. Regulatory Information

U.S. EPA EPCRA Section 313 Reportable Product – (contains copper)

U.S. EPA Reportable Quantity: 5,000 lbs. (2,270 kg)

SECTION 16. Other Information

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.