MATERIAL SAFETY DATA SHEET

13600 SERIES CUPRIC OXIDE

NIPCA HIMIS HAZARD RATING Health Plannability 0 **toactivity** Maximum Personal Trotaction

SECTION I

MANUFACTURER

AMERICAN CHEMET CORPORATION

P.O. BOX 1160

East Helena, MT 59636

EMERGENCY TELEPHONE

(406) 227-5302

ATTN: Dan Brimhail

CHEMICAL NAME CAS NUMBER

APPROX. WT. %

CLIPRIC OXIDE

1317-38-0 1317-39-1

98% 1.5%

CUPROUS OXIDE METALLIC COPPER

7440-50-8

0.5%

SECTION II

HAZARDOUS INGREDIENTS

TLV & PEL

COPPER

78% Min

1 mg/m³

There is no ACGIH TLV or OSHA PEL for cuprous exide or cupric exide. Exposure is governed by the 8 hour TWA established for finely divided copper in dusts or mists. Cuprous oxide, cuprio oxide and copper are not carcinogenic materials as listed by OSHA (29 CFR 1910) or ACGIH (Appendix A, Threshold Limit Values for Chemical Substances 1995-1996).

SECTION III PHYSICAL D Bolling Point:	DATA NA
Specific Gravity: H ₂ O=1 Vapor Pressure: Percent Volatile: by volume: Vapor Density: Everoration Rate:	6.0 NA C% NA NA NaG≸G∳Die
Vecor Density:	

Melting Point: Cupric oxide decomposes at 1847°F to cuprous

skide and exygen. Cuprous exide malte at 27550 F Black

Appearance and Odor:

Fine Powder, No Odor.

SECTION IV

FIRE & EXPLOSION HAZARD DATA

Flash Point:

NA

Flammable Limits

LEL: NA

LIEL: NA

Extinguishing Media: Will not burn. Special Fire Fighting Procedures: None

Unusual Fire Fighting Procedures: See Section VI

Date: February 28, 1999 (Rev 8)

Reviewed 2/21/2001

HEALTH HAZARD DATA SECTION V

Threshold Limit Value: See Section II Signs, Symptoms, and Effects of Overexposure: Nausea, chills, diarrhea. May cause respiratory irritation; skin irritation (oxide pbx); fever, eye irritation with redness, pain and conjunctivitie; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over exposed on a chronic basis.

Primary Routes of Entry: Inhalation and/or ingestion. Emergency and First Aid Procedure: Remove to fresh air. Lay patient down. Cover with blanket. If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes. Refer to physician.

REACTIVITY DATA SECTION VI

Stable 👗 Unstable

Conditions and Materials to Avoid: Cupric oxide may react violently with strong reductants, e.g., organic compounds, such as but not timited to hydrazine and acetylene, carbide compounds, acids, bases, and metals such as but not limited to Al, Mg, B, K, Ni, Ti & Zr.

Hazarddus Decomposition Products: Copper fumes will be released if cuprous oxide is heated above its melting point (2255° F).

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES SECTION VII

Steps to be taken in case material is released or spilled. Clean up with vacuum or conventional tools. Avoid dusting. Waste Disposal: Approved land fill I allowed by local, state and federal authorities.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: Cartridge type particulate filter respirator or dust mask approved by NOISH.

Refer to Respiratory Protective Devices approved by NIOSH under 42 CPR 84.

Ventilation: To keep below listed TLV in Section II, use general dilution type ventilation.

Protective Gloves: Wear if skin contact is probable and skin is sensitive.

Eye Protection: Safety glasses or goggles.

Other Protective Equipment: Long sleeve shirts if contect is probable and skin is sensitive.

SPECIAL PRECAUTIONS SECTION IX

Precautions to be taken in handling and storing: Keep lids tightly sealed. Store in cool, dry place.

Other Precautions: Do not take internally. Avoid prolonged contact with skin. Wash with scap and water after contact.

SARA TITLE III SECTION X

This product contains copper compounds and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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