## MATERIAL SAFETY DATA SHEET

## 13600 SERIES CUPRIC OXIDE - Black

NPCA HMIS HAZARD RATING Health ammabile Reactivity Maximum Personal Protection

SECTION I

MANUFACTURER

AMERICAN CHEMET CORPORATION

P.O. BOX 1160

East Helena, MT 59635

**EMERGENCY TELEPHONE** 

(406) 227-5302

ATTN: Dan Brimhall

CHEMICAL NAME CAS NUMBER

APPROX. WT %

CUPRIC OXIDE

1317-38-0

98%

CUPROUS OXIDE

1317-39-1 7440-50-8 1.5% 0 5%

METALLIC COPPER SECTION II

HAZARDOUS INGREDIENTS

TLV & PEL

COPPER

78% Min

There is no ACGIH TLV or OSHA PEL for cuprous oxide or cupric oxide. Exposure is governed by the 8 hour TWA established for finely divided copper in dusts or mists. Cuprous oxide, cupric 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 DATA Boiling Point:	NA NA
Specific Gravity: H2O=1	6.0
Vapor Pressure.	NA
Percent Volatile by volume:	0%
Vapor Density	NA
Evaporation Rate:	NA
Solubility in Water:	Negligible
Columnity at the column	

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

oxide and oxygen Cuprous oxide melts at 2255° F

Appearance and Odor:

Black Fine Powder. No Odor

FIRE & EXPLOSION HAZARD DATA SECTION IV

Flash Point:

Flammable Limits

LEL' NA

UEL NA

Exanguishing 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 imitation, skin imitation (oxide pox); fever, eye irritation with redness, pain and conjunctivitis; 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

Unstable Stable X Conditions and Materials to Avoid Cupne oxide may react violently with strong reductants, e.g., organic compounds, such as put not limited to hydrazine and acotylene, carbide compounds, acids, bases, and metals such as but not limited to Al, Mg. B. K. Ni, Ti & Zr.

Hazardous Decomposition Products: Copper fumes will be released if cuprous oxide is heated above its meiting 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 if allowed by local, state and federal authorities.

SECTION VIII SPECIAL PROTECTION INFORMATION Respiratory Protection Carindge type particulate filter respirator or dust mask approved by NOISH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 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 shins if contact is

probable and skin is sensitive

SPECIAL PRECAUTIONS SECTION IX

Precautions to be taken in handling and storing. Keep lids agntly sealed Store in cool, dry place. Other Precautions Do not take internally Avoid prolonged contact with skin. Wash with soap 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)