

400 LAKE COOK ROAD P.O. Box 437 DEERFIELD, ILLINOIS 60015 USA Phone (708) 948-0800 Telex 72-4301 Chemet DFLD FAX (708) 948-0811

## **CUSTOM COPPER OXIDES**

Total Copper Cuprous Oxide - Cu<sub>2</sub>O Cupric Oxide - CuO Metallic Copper - Cu

**Trace Elements** 

Surface Area by BET HNO3 Insol Particle Size

July 1990

## **SPECIFIATION RANGES**

75 - 99.9% 0 - 99.9% 0 - 99.9% 0 - 99.9%

By Agreement

0.5 - 4.0 m<sup>2</sup>/g
 .25 Maximum
 Determined by the surface area

## MATERIAL SAFETY DATA SHEET

NPCA - HMIS HAZARD RATING
Health 1
Flammability 1
Reactivity 1
Maximum
Personal Protection E

				<del>-</del>		reisonal Protection E	
SECTION I MANUFACTURER		AMERICAN	СНЕМЕ	CORPORA	TION		
		P.O. Box 116 East Helena,		٢			
EMERGENCY TELE	PHONE	(406) 227-530		- TN: W. H. P	orter or I	en Brimhall	
CHEMICAL NAME	COPPER AND OXIDIZED COPPER						
TRADE NAME		CUSTOM CO				UMI 067112	
CHEMICAL FAMILY	?	Copper		1) Oxide		(11) Oxide	
FORMULA		Cu	Cu <sub>2</sub> O	•	CuO	(,	
CAS NUMBER		7440-50-8	1317-39-	1	1317-38	-0 ·	
SECTION II	-	HAZARDOL	IS INGRI	EDIENTS			
COPPER		%		/ & PEL			
COPPER There is no ACGIH TLV	or OSHA PEL for either	83% (Min)	1 m cuprio oxid	g/m³ la Evassura in	annamed b	y the 8 hour TWA established for finely divided o	
in dusts or mists. Cuprous Values for Chemical Sub-	oxide, cupric oxide and co	opper are not care	inogenic m	aterials as listed	by OSHA	(29CFR1910) or ACGIH (Appendix A, Threshold	Limit
SECTION III		PHYSICAL	DATA				
Boiling Point (f):		Specific Grav	ity:	Vapor Press	ure:	Percent Volatile by volume (%):	
NA Vana Barata	<b>.</b>	$H_2O=1$		NA		0%	
Vapor Density: NA	Evaporation Rate: NA	Solubility in '	Water:	Melting Poin	it:	Appearance and Odor:	
NA Negligible 2255°F Fine powder, red-brown in color. No oc SECTION IV FIRE & EXPLOSION HAZARD DATA							
Flash Point Flammable Limits							
**:		LEL	UEI	•		•	
NA		NA	NA		s.		
Extinguishing Media: (	CO <sub>2</sub> , ABC extinguisher	Or water.					
Usual Fire Fighting Proce	cedures: Separate from ma	iss. Eliminate oxy	gen.				
SECTION V	cates. Spontaneous comb	LIE AT THE	OXIGIZING	product to CuC	it exposed	to moist air at temperatures above 100°C.	
Threshold Limit Value: S	ee Section II	HEALTH H	AZAKD I	DATA			
Signs, Symptoms, and Eff	ects of Overexposure: Naus	sea, chills, diarrh	ea. Mav cai	use upper respi	ratory irrita	tion; skin irritation (oxide pox); fever, eye irritation	n with
- and the party of the company	MAINTAL DICENTALIE INTER USE	EXSES MAV DE 201	TERVIEW NO	AYDORINA I O	uid recult in	respiratory irritation; preexisting lung diseases m	iay be
-Seratand of exposule.	Could result in respiratory Inhalation and/or ingestion	disease it over e	xposed on	a chronic basis	•	· ·	-
Emergency and First Aid	Procedure: Remove to fres	n. h air. Lay patient	down. Co	ver with blanke	t. If irritate	d, flush eyes and skin with large volumes of fresh	water
TO ILLIANDS. INCIDE TO	MD.						water
SECTION VI		REACTIVIT	Y DATA				
Stable X Unstable							
cuprous oxide may react	violently with strong reacts	NOVE 100°C While Ints such as acids	in presence	e of moist air.	Mass build	up under reactive conditions. Under certain conditions	litions
Hazardous Decomposition	Products: Copper fumes	will be released in	f cuprous o	xide is heated	above its m	minica to, Ar and Mrg.	
Hazardous Polymerization	: Will not occur.					coming point (2255 ).	
SECTION VII		SPILL OR L	EAK PR	OCEDURES	- · <u>- · </u>		
Steps to be taken in case	material is released or spil	led. Clean up wit	th vaccum	or conventional	tools. Avo	oid dusting.	
waste Disposal Method:	Approved land fill. Large	masses of this pro	oduct expos	ed to moist air	over 100°	C can result in spontaneous combustion.	
SECTION VIII		SPECIAL PR	COTECTI	ON INFOR	MATION		
Ventilation: To keep hele	artridge type filter or appro	oved dust mask.	Refer to Re	spiratory Prote	ective devic	es approved by Bureau of Mines Circular IC 843	6.
ventuation. To keep beto	w listed TLV in Section II f skin contact is probable	, use general dilu	tion type v	entilation.			
Eye Protection: Safety gla	i sain contact is probable :	and skin is sensiti	ive.				
	nt: Long sleeve shirts if co	intact is probable	and chin i				
SECTION IX	Tong store starts if the	SPECIAL PR					
	handling and storing: Kee	n lids tightly cast	ed Store :	DIND . Dicool devicte		•	
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 soap and water after contact.							
SECTION X		SARA TITLE	III	-an with soap	wird Walter	anci conizci.	
This product contains copp Act of 1986 and 40 CFR 1	er compounds and is subjected and is sub	ct to the reporting	requireme	nts of Section	313 of Title	III of the Superfund Amendments and Reauthoriz	ation