OCT. 30. 2006 3:21PM CERRO SALES

NO. 216 P. 2/3

MATERIAL SAFETY DATA SHEET

I. MATERIAL IDENTIFICATION

CompanyName: CERROMETAL PRODUCTS CO. P. O. BOX 388 BELLEFONTE, PA 16823						Emergency Phone No.: (814)355-6372		
Use of Prod ARTICLE FABRI	BRA	Product Name; BRASS/BRONZE ROD AND WIRE			Chemical Family: COPPERALLOYS			
Product include 27200 37700* C67600*	ies the follow 34000* 38500*	Ming CDA All 34200* 46400	oys and LLF 34500* 48500*	-61: 35000* 67300*	35300° 67500	36000° 79800°	36500* LLF-61**	37100*
30,000								leaded alleys.

II. CHEMICAL COMPOSITION

ELEMENT	CAS NUMBER	RANGE - %	OSHAPERMISSIBLE EXPOSURE LIMIT - 8 HOUR TWA	ACGIHTHRESHOLD LIMIT VALUE - 8 HOUR TWA
*Aluminum	7429-90-5	0 - 3	15 mg/m³ Total dust 5 mg/m³ Respirable fraction	10 mg/m³ Metal dust 5 mg/m³ Welding furnes
Copper	7440-50-8	45 - 70	0.1 mg/m³ Fume 1 mg/m³ Dusts & mists	0.2 mg/m³ Fume 1 mg/m³ Dusts & mists
*lron	7439-89-6	0 - 6	10 mg/m² Fume	5 mg/m³ Fume
Lead	7439-92-1	0 - 4.5	0.05 mg/m³	0.15 mg/m³
Manganese	7439-95-5	0 - 5	10 mg/m³ Fume	1 mg/m³ Fume, 5 mg/m³ Dust
Nickel	7440-02-0	0 - 12.0	1 mg/m³	1 mg/m ³
Phosphorus	7723-14-0	0 - 0.5	0.1 mg/m³	0.1 mg/m³
Silicon	7440-21-3	0 - 4.5	15 mg/m ^s Total dust 5 mg/m ³ Respirable fraction	10 mg/m³
Tin	7440-31-5	0 - 4.5	2 mg/m³	2 mg/m³
*Zinc	7440-66-6	30 - 43	5 mg/m³ Fume	5 mg/m³ Fume
			15 mg/m³ Total dust 5 mg/m³ Respirable fraction	10 mg/m³ Total dust 5 mg/m³ Respirable fraction

III. PHYSICAL DATA

Melting Point:	Boiling Point:	Vapor Pressure:	Specific Gravity:		
1500 - 2100°F	N.A.	N.A.	7.5 - 9.0 g/cc		
The product is a silver or yellow to red solid at room temperature and exhibits no odor. The product is insoluble in water.					

IV. STORAGE, FIRE & REACTIVITY DATA

Flash Point: N.A.	Auto-ignition Temperature: N.A.	Flammability Limits: N.A.			
There are no fire or explosion hazards with these alloys. Never use water as an extinguishing agent around molten metal. Water will react violently with any molten metal.					
The alloy is a stable, non-hazardous solid at room temperatures. Material may react with acids, bases or oxidizers.					

Material does not present a significant health hazard under normal handling and storage conditions.

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V. HEALTH HAZARD DATA

Under normal handling conditions the solid alloy presents no significant health hazard. Processing of the alloy by dust or furne producing operation (grinding, buffing, forgings, etc.) may result in the potential for exposure to airborn metal particulates or furnes. The exposure levels in Section II are relevant to furnes and dust.

Chronic exposure to copper, zinc, lead, and manganese may cause metal fume fever. Symptoms of metal fume fever include fever, fatigue, dryness of throat, head and body ache, fever and chill. Overexposure to copper and lead may result in skin and hair discoloration. Chronic exposure may affect the central nervous system leading to emotional disturbances, gait and balance difficulties and paralysis.

Nickel and lead have been identified as potential cancer causing agents.

The product will not irritate the skin or eyes in bulk form. Particulates may cause dermatitus due to mechanical irritation.

FIRSTAID:

Ingestion: ingestion of significant amounts of copper alloy are unlikely. Seek medical help if large quantities of product

are ingested.

Inhalation: Remove from exposure to dust or fume if present. Seek medical help if required

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush with water for at least 15 minutes. Seek medical help if required.

VI. SPILL PROCEDURES

Product is a non-hazardous solid. No special precautions are required for spills of bulk material. Scrap metal can be reclaimed for reuse. Follow Federal, State and Local regulations regarding disposal.

VII. SPECIAL PROTECTION INFORMATION

Typically no special protection is required during use of the product beyond that required for the process operation being employed. Where dust or furne levels are greater than those specified in Section II, NIOSH approved respiratory protection should be used.

VII. SPECIAL PRECAUTIONS AND COMMENTS

Wet material should never be charged into a molten bath.

Eye protection should be used when cutting, grinding, machining or buffing product. Eye protection should also be used with any other process that generates dust, fumes or chips.

Wash hands thoroughly after use, especially before eating.

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION

Brass/bronze rods, parts and wire which undergo process operations producing a dust or fume are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

Revised by: Gerrit Van Tilburg Title: Manager of Technical Services Date: 10/4/06

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