

MATERIAL SAFETY DATA SHEET

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REVERE COPPER PRODUCTS, INC.

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IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information to employees, customers and users of this product.

SECTION 1 – MATERIAL IDENTIFICATION

Identity: Continental Bronze

UNS Designation: None.

ASTM Specification: B370

SECTION II – HAZARDOUS INGREDIENTS

Chemical Name	CAS NO.	Percent by wt.	Permissible Air Concentration (mg/m ³)	
			OSHA PEL	ACGIH TLV
*COPPER	7440-50-8	99.5 Min.	0.1 (Fume) 1 (Dust)	0.2 (Fume) 1 (Dust)

*Identifies substances that are subject to the requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION III – PHYSICAL DATA

Color: Dark Brown

Melting point (°F): 1976-1981

Specific Gravity (H₂O=1): 8.89-8.94

Solubility in Water: Negligible

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	Not Applicable
Extinguishing Media:	Dry Sand or Metal Extinguishing Powders
Special Fire Fighting Procedures:	Use NIOSH approved self-contained breathing apparatus and full protective clothing if involved in fire.
Unusual Fire and Explosion Hazards:	Solid form can burn at minimum rate without flame (smolder). Do not use water on molten or smoldering metal. Grinding or other machining operations can produce fine particulate dust that may explode in the presence of a strong ignition source.

SECTION V – HEALTH HAZARD DATA

Specialty copper alloys are generally not considered hazardous in the form shipped (solid bars, billets, rods, wire, etc) However, if your process involves grinding, melting, welding, cutting or any other process that causes a release of dust or fume, hazardous levels of dust or fume of the constituents of these alloys could be generated. The following is a list of potential health effects for hazardous elements potentially contained in the alloys. Please refer to section II titled “Composition/Ingredients” for a list of those specific elements contained in this particular alloy.

Route(s) of Entry:

Inhalation:	Yes
Skin:	Yes
Ingestion:	Yes

Acute Hazards: Irritation of eyes, skin and respiratory tract. Dry burning throat, headache, muscle aches, cough, nausea, chills, fever, metallic taste, skin and hair discoloration.

Copper: Dust and/or fumes may cause irritation of eyes, skin and respiratory tract. Dry burning throat, headache, muscle aches, cough, nausea, chills, fever, metallic taste, skin and hair discoloration.

Chronic Hazards: Personnel with Wilson’s disease or with impaired lung function may be more severely affected by chronic exposure to dust and fumes.

Emergency and First Aid Procedures:

Skin:	Flush thoroughly with water.
Eyes:	Flush with water, call physician.
Ingestion:	Induce vomiting in a conscious person, call physician.
Inhalation:	Remove victim to fresh air, call physician.

Carcinogenicity: Copper has not been identified as a carcinogen or potential carcinogen by NTP¹, IARC² or OSHA³.

- ¹ National Toxicology Program
- ² International Agency for Research on Cancer
- ³ Occupational Safety and Health Administration

Note: The Copper and Copper Alloy products as sold by Revere Copper Products, Inc. are in solid form and as such present no significant health hazards. Processing of the material to liberate dust and/or fumes may result in the potential for exposure to airborne metal particulates or fumes. Permissible exposure levels are found in Section II.

SECTION VI – REACTIVITY DATA

Stability:	Stable
Incompatibility (Material to avoid):	Avoid contact with Hydrogen Peroxide, Acetylene, Chlorine, Halogenates of Barium, Calcium, Magnesium, Potassium, Sodium and Zinc. Avoid liberation of airborne dust that can be explosive.
Hazardous Decomposition Products:	At temperatures above the melting point metallic oxide fumes may be evolved.
Hazardous Polymerization:	Will not occur.

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

A clean-up procedure that minimizes exposure is required. Vacuuming is preferred. Place material in closed containers. Do not use compressed air for cleaning. Use approved respiratory protection if possibility of dust, mist and/or fume exposure exists.

Waste Disposal Method:	Copper containing waste is normally collected to recover copper value. Should waste disposal be deemed necessary, follow Federal, State and Local Regulations.
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SECTION VIII – SPECIAL PROTECTION INFORMATION

Respiratory Protection:	If handling and/or further processing of material generates a dust, then a NIOSH approved P or N-95 respirator should be worn
Ventilation:	Exhaust dust, mist and/or fume away from the operator.
Engineering Controls:	Use adequate ventilation to keep dust and/or fume concentrations below the occupational exposure limits shown in Section II.

Eye Protection: Safety glasses or a face shield should be worn.

Gloves: Protective gloves are recommended.

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

Good housekeeping must be practiced during storage, transfer, handling and use to avoid excess dust release. Good personal hygiene procedures should be observed at all times.

DISCLAIMER OF LIABILITY

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