

# Marmetal Industries, Inc.

# MATERIAL SAFETY DATA SHEET

Date: May 15, 1986

Supersedes Date:

# SECTION

Name:

MARMETAL INDUSTRIES, INC.

Address:

903 Sheehy Drive, Horsham, Pa 19044

Emergency Phone No.:

215-675-4645

Identity (as used on label):

413,425,443,464,465

CDA Designation:

C41300, C42500, C44300, C46400, C46500

#### SECTION II—HAZARDOUS INGREDIENTS

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Chemical Name		CAS Registry No.	Percent by Weight
Copper		7440-50-8	60.090.0
Zinc	,	7440-66-6	.9,0-39.2
Tin		7440-31-5	0.8-2.0
Phosphorus (Alloy 425 only)		7723-14-0	0.20
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Note: The copper and copper alloy products as sold by Revere Copper Products, Inc. are in solid form and wit not result in an environmental exposure in such form. We cannot anticipate all the processes or applications to which this product might be subjected or which might create exposures. The information supplied has been lumished by our suppliers and consequently, Revere Copper Producls, inc. assumes no responsibility for the accuracy or completeness of the data contained herein.

### SECTION III — PHYSICAL DATA

Melting Point ("F)

Alloy:

1900 1720 1650 1650

Specific Gravity (H<sub>2</sub>0 = 1)

8.80 8.78 8.53 8.41

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/MSHA approved self-contained breathing apparatus and full

protective clothing if involved in fire.

Unusual Fire and Explosion Hazards Do not use water on molten metals. Grinding or other machining operations can produce fine particulate dust which may explode in the presence of a strong ignition source.

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## SECTION V—HEALTH HAZARD DATA

#### Threshold Limit Value:

Copper: Fume-0.1 mg/m3; Dust & Mist-1.0 mg/m3. Zinc: Oxide Fume-5 mg/m3.

Tin: 2 mg/m3. Phosphorous: 0.1 mg/m3.

#### Effect of Overdose:

Mechanical irritation of skin and eyes. Irritation to lining of stornach and intestines. Dry burning throat, headache, muscle aches, cough, chest tightness and pain, nausea, chills, fever, metallic taste.

#### Emergency and First Aid Procedures:

Skin: Flush thoroughly with water. Eves: Flush with water, call physician.

Ingestion: Induce vomiting in conscious person, call physician.

Inhalation: Remove victim to fresh air, call physician.

### SECTION VI-REACTIVITY DATA

#### Stability-Stable

#### Incompatibility (material to avoid):

Hydrogen Peroxide, Acetylene, Chlorine, Halogenates of Barium, Calcium, Magnesium, Potassium, Sodium and Zinc.

# 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 which 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.

# SECTION VIII—SPECIAL PROTECTION INFORMATION

# Respiratory Protection:

NIOSH/MSHA approved respirator for toxic dust, fume and/or mist.

#### Ventilation:

Exhaust dust, mist and/or fume at source if threshold limit values are exceeded.

#### Eye Protection:

Safety glasses or face shield.

#### SECTION IX—SPECIAL PRECAUTIONS

#### Precautions To Be Taken in Handling and Storing:

Avoid inhalation and ingestion of dust, fume and/or mist. Practice good housekeeping and personal hygiene procedures.