



MAGNOLIA  
METAL  
CORPORATION

# SAFETY DATA SHEET

No.SDS-4

Rev.1

DATE ISSUED: 6/01/2015

## 1. IDENTIFICATION

**IDENTITY:** (label identifier)

**Tin Base Babbitts**

**This SDS Supplied For:**

Adamant  
DZL  
Power

**MANUFACTURER'S NAME**

Magnolia Metal Corporation

**STREET ADDRESS**

63859 730 Road

**EMERGENCY TELEPHONE NO.**

402-274-3152

**MAILING ADDRESS**

Same

**TELEPHONE NO.**

402-274-3152

**CITY, STATE, ZIP CODE, COUNTRY**

Auburn, Nebraska 68305 USA

**FAX NO.**

402-274-3156

**E-MAIL ADDRESS/WEBSITE**

bronzesales@magnoliabronze.com

**RECOMMENDED USE:**

Surfacing bearings and other industrial uses

## 2. HAZARD IDENTIFICATION

**Hazard Symbol:**



**Signal Word:** WARNING

**Hazard Statement:** May cause respiratory irritation.

**Precautionary Statement**

**Prevention:** Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke while handling this product.

Wash hands, face and any exposed skin after handling.

Avoid breathing dust, fumes or mist.

Use personal protective equipment as required.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse with water for 15 minutes. If eye irritation persists seek medical attention.

IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs seek medical attention.

**Storage:** No special requirements.

**Disposal:** Recover or recycle if possible. Dispose of according to local, regional, national and international Regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME/COMMON NAME/SYNONYM	Wt %	CAS NUMBER
Antimony (Sb) Metal	4.0–14.0	7440-36-0
Copper (Cu) Metal	3.0–8.5	7440-50-8
Lead (Pb) Metal	0.0–0.4	7439-92-1
Tin (Sn) Metal	80.0–92.0	7440-31-5

### 4. FIRST AID MEASURES

**EYE CONTACT:** Do not rub eyes. Flush eyes with plenty of water for 15 minutes. Remove contact lenses. If irritation persists seek medical attention.

**SKIN CONTACT:** Wash with soap and water. If skin irritation or rash occurs seek medical attention.

**INGESTION:** Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

**INHALATION:** In the event of excessive exposure to dust or fumes, remove employee to fresh air. If breathing is difficult obtain immediate medical assistance.

### 5. FIREFIGHTING MEASURES

**FLAMMABLE PROPERTIES:** This product is not flammable. When involved in a fire decomposition of this product may produce fumes or gases hazardous to health.

**EXTINGUISHING MEDIA:** Dry chemical, foam or CO<sub>2</sub>.

**PROTECTION OF FIREFIGHTERS:** Self-contained breathing apparatus and protective clothing

### 6. ACCIDENTAL RELEASE MEASURES

Not applicable

### 7. HANDLING & STORAGE

#### RECOMMENDED STORAGE

No special requirements

#### ADVICE ON SAFE HANDLING

Use personal protection recommended in section 8.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING CONTROLS

There are no health hazards from Babbitt in solid form. If an operation generates dust, fumes or mist use proper ventilation to keep airborne contaminants below the exposure limit. Please consult a competent person for guidance on exposure assessment and controls.

SUBSTANCE	ACGIH TLV mg/m <sup>3</sup>	OSHA PEL mg/m <sup>3</sup>	NIOSH mg/m <sup>3</sup>
Antimony (Sb)	0.5	0.5	0.5
Copper (Cu)	1	1	1
Lead (Pb)	0.15	0.05	0.1
Tin (Sn)	2	2	2

#### TERMS

All exposure limits are based on an 8 hour time weighted average (TWA) unless otherwise noted.

N/E = None Established

I = Inhalable fraction

TLV = Threshold Limit Value/American Conference of Governmental Industrial Hygienists (ACGIH)

PEL = Permissible Exposure Limit / OSHA

AL = Action Level / OSHA

mg/m<sup>3</sup> = milligrams per cubic meter

µg/m<sup>3</sup> = micrograms per cubic meter

## PERSONAL PROTECTION

**Eye Protection:** Use safety glasses with side shields.

**Hand protection:** Use suitable protective gloves to prevent cuts and abrasions.

**Skin protection:** Not normally needed.

**Other:** Wear suitable protective clothing.

**Respiratory protection:** Only required if the exposure limits are exceeded. Use NIOSH approved respirator for toxic dust, fume or mist. A respiratory protection plan that meets OSHA's 29 CFR and ANSI Z88.2 requirements must be followed whenever work place conditions warrant the use of a respirator.

**General hygiene practices:** Do not eat, drink or smoke in the work area. Wash face, hands and any exposed skin after handling the material and before eating, drinking or smoking. Contaminated work clothing should not be worn home after work and should be stored separate from street clothing. If possible, an industrial laundry service should be used to eliminate the possibility of contaminating the home environment.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE /PHYSICAL STATE:** Dull gray in color.

**ODOR:** None

**MELTING POINT/FREEZING POINT:** Approximately 238°C (460°F) depending on composition

**BOILING POINT:** 1243°C (2270°F) (for tin)

**FLAMMABILITY:** Not combustible

**UPPER AND LOWER FLAMMABILITY LIMITS:** Not combustible

**AUTO IGNITION TEMPERATURE:** Not applicable

**DECOMPOSITION TEMPERATURE:** Not applicable

**VAPOR DENSITY:** Not applicable

**SPECIFIC GRAVITY (relative density):** 7.29 (for tin)

**VAPOR PRESSURE:** Not applicable

**EVAPORATION RATE:** Not applicable

**SOLUBILITY IN WATER:** Insoluble

**pH:** Not applicable

**VISCOSITY:** Not applicable

**PARTITION COEFFICIENT:** Not applicable

**FLASH POINT:** Not applicable

## 10. STABILITY & REACTIVITY

**CHEMICAL STABILITY:** Babbitt in solid form is stable.

**CONDITIONS TO AVOID:** None

**REACTIVITY:** Not reactive

**HAZARDOUS DECOMPOSITION PRODUCTS:** Lead oxide fumes.

**INCOMPATIBLE MATERIALS:** None

**HAZARDOUS POLYMERIZATION:** Not applicable

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

Babbitt in solid form presents no significant health hazards under normal handling conditions. Dust, fumes or mist generated by melting, machining, grinding, welding or cutting may result in potential exposure to airborne particles.

**EYE CONTACT:** Mechanical actions may produce dust, fumes or mist that could irritate the eye.

**SKIN:** May cause an allergic reaction to the skin.

**INGESTION:** Ingestion of dusts generated during working operations may cause nausea and vomiting.

**INHALATION:** Mechanical actions may produce dust, fumes or mist which may be irritating to mucous membranes and respiratory tract.

### Carcinogen Classification of Ingredients

INGREDIENT	OSHA	NTP	IARC	TARGET ORGAN(S)
Lead and Inorganic Compounds	NL	R	2A	Lung, Stomach, Liver, Kidney

**TERMS**

**OSHA—Occupational Safety & Health Administration**

Y = Listed as a Human Carcinogen

**NTP—National Toxicology Program**

K = Known to be a Human Carcinogen

R = Reasonably Anticipated to be a Human Carcinogen (RAHC)

**IARC—International Agency for Research on Cancer**

1 = Carcinogenic to Humans

2A = Probably Carcinogenic to Humans

2B = Possibly Carcinogenic to Humans

3 = Unclassifiable as to Carcinogenicity in Humans

4 = Probably not Carcinogenic to Humans

**Other**

NL = Not Listed

### 12. ECOLOGICAL INFORMATION

**ECOTOXICITY**

Not applicable

**PERSISTENCE AND DEGRADABILITY**

Not applicable

**BIOACCUMULATION POTENTIAL**

Not applicable

**MOBILITY IN SOIL**

Not applicable

**OTHER ADVERSE EFFECTS**

Not applicable

### 13. DISPOSAL CONSIDERATIONS

Recover or recycle if possible. Dispose of according to local, regional, national and international regulations.

Dust collected from machining, etc. may be classified as hazardous. Consult authorities before disposing.

### 14. TRANSPORT INFORMATION

**US DEPARTMENT OF TRANSPORTATION (DOT)-HMR (Hazardous Materials Registration)**

Not Regulated

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS (TDG)**

Not regulated

**UN SHIPPING NAME**

Not regulated

**UN NUMBER**

Not regulated

**TRANSPORT HAZARD CLASS**

Not regulated

**PACKING GROUP**

Not regulated

**ENVIRONMENTAL HAZARDS**

None

**LABEL(S) REQUIRED**

Yes

**TRANSPORT IN BULK**

Not applicable

**SPECIAL SHIPPING INFORMATION**

Not applicable

### 15. REGULATORY INFORMATION

**US-OSHA (Hazard Communication Standard)**

References: 29 CFR 1910.1200 Hazard Communication Standard

29 CFR 1910.1000 Air Contaminants

29 CFR 1910.1025 Lead

Dust or fumes generated by melting, machining, grinding, or welding may produce airborne contaminants, such as antimony, copper, lead and tin.

**US-EPA (Toxic Substances Control Act–TSCA)**

All components of these products are on the TSCA inventory list or are excluded from listing.

**US-EPA (SARA Title III)**

Releases to the environment of **Copper and Lead (fume or dust)** may be subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CANADA-WHMIS (Workplace Hazardous Materials Information System)**

This SDS has been prepared according to the hazard criteria of the Controlled Product Regulations (CPR) and the SDS contains the information required by the CPR.

**CANADA DSL (Domestic Substances List) Inventory Status**

All components of these products are on the DSL Inventory.

**CEPA (Canadian Environmental Protection Act)**

Lead is on the Toxic Substances List.

**EINECS No. (European Inventory of Existing Commercial Chemical Substances)**

All components of these products are on the EINECS list.

**RoHS (Restriction of Certain Hazardous Substances) Compliance**

Complies with RoHS

**CALIFORNIA PROPOSITION 65 Compliance**

WARNING: This product contains or produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25248.5 et seq.)

**US STATE REGULATORY INFORMATION**

Some of the components listed in Section 3 may be covered under specific state regulations.

**16. OTHER INFORMATION**

**Prepared By:** Scott A. Reid

**Date Issued:** 6/1/2015

**Revision Date:** None

**NOTE**

Information presented herein has been compiled from sources considered to be reliable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. The data given is designed for guidance during handling, processing, storage, transportation, disposal and release and is not to be considered a warranty. Each user should review the recommendations in specific context of the intended use and determine if they are appropriate.