

# Metal Powders USA



## Safety Data Sheet

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Product name  
White Bronze

### 1. IDENTIFICATION OF THE SUBSTANCE/MANUFACTURER

Product name: White Bronze  
MSDS number: 112

MetalPowdersUSA, INC  
11010 Harbor Hill Dr  
Suite #B208  
Gig Harbor, WA 98332 USA

### 2. HAZARD IDENTIFICATION

Classification

Most important risks

**EYE CONTACT:** Causes mild eye irritation  
**SKIN CONTACT:** Causes mild skin irritation. Skin discoloration may occur  
**INHALATION:** Dust and fumes are irritating to respiratory system. May cause sensitization by inhalation. No significant health hazards identified.  
**INGESTION:** No significant health hazards identified. Causes stomach pain, nausea, vomiting, and diarrhea.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Composition

Substance  
TIN

CAS Nr 7440-31-5

Range % by Wt

>99

### 4. FIRST AID MEASURES

**EYES:** Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Get medical attention if irritation develops. Causes mild eye irritation.

**SKIN:** Wash the skin using soap of a mild detergent and warm water. Get medical attention if irritation develops. Causes mild skin irritation.

**INHALATION:** Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Get immediate medical attention.

**INGESTION:** If person is conscious, rinse mouth and give large quantities of water to drink. Get medical attention. Causes stomach pain, nausea, vomiting, and diarrhea

### 5. FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, dry sand, graphite, dolomite or sodium chloride. **DO NOT USE WATER.**

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** High dust concentrations have a potential for combustion or explosion.

**FIRE FIGHTING EQUIPMENT:** Wear full bunker gear including a positive pressure self-contained breathing apparatus.

**PRECAUTIONS:** Keep away from ignition sources (e.g., heat and open flames). Use with adequate ventilation. Keep container closed.

**HAZARDOUS DECOMPOSITION:** None identified

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## 6. ACCIDENTAL RELEASE MEASURES

- 1.Restrict the area to those persons wearing respiratory protection. Do not allow unprotected people into the area until cleanup has been completed
- 2.Ventilate the area thoroughly.
- 3.Collect the powder in a manner that minimizes further dust generation (i.e., use wet or HEPA vacuum methods)
- 4.Keep out of sewers and waterways.
- 5.Recycle or dispose of as a waste (see section 13).

## 7. HANDLING AND STORAGE

Wash thoroughly after handling. Avoid dust generation from dried paste.

Store powder in a dry area, -18\* to 38\* C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### VENTILATION REQUIREMENTS:

Keep dust and fume levels below occupational exposure limits. Local exhaust ventilations may be necessary for some operations.

### PERSONAL PROTECTIVE EQUIPMENT:

EYES: Wear dust-proof safety goggles. Contact lenses are not recommended.

SKIN: Wear suitable protective clothing and gloves. Do not get on skin.

Workers should wash before eating or smoking. If the occupational exposure limits are exceeded, workers should shower and change clothing before leaving work. (see 29 CFR1910.1025)

INHALATION: Use with adequate ventilation. If fumes are likely to be generated, use certified respirator that will protect against fumes.

OTHER: Eating and smoking should not be permitted in areas where dust or fume is present. Protective clothing and equipment worn at work should remain at work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	Grey metallic powder; odorless
FLASH POINT	Not determined
FLAMMABILTY	Not determined
AUTOIGNITION TEMPERATURE	Not determined
pH	Not applicable
VAPOR PRESSURE	1 mm Hg @ 1492* C
VAPOR DENSITY	Not determined
MELTING POINT	232*C
BOILING POINT	Above 2500* C
SOLUBILITY IN WATER	Not soluble
SOLUBILITY IN FAT	Not determined
OCTANOL/WATER PARTITION	Not determined
COEFFICIENT	
RELEATIVE DENSITY (WATER=1)	2.0-4.0
VISCOSITY	Not applicable
% VOLATILES BY WEIGHT	Not volatile
EVAPORATION RATE	Not determined

## 10. STABILITY AND REACTIVITY

STABILITY: Stable  
INCOMPATIBLE MATERIALS: Tin reacts with concentrated acids. Contact with chlorine may result in ignition.  
HAZARDOUS DECOMPOSITION: None identified  
HAZARDOUS POLYMERIZATION: will not occur.

## 11. TOXICOLOGICAL INFORMATION

Metallic tin is relatively non-toxic. Exposure to dust of fumes of inorganic tin salts is known to cause benign inflammation of the lung tissue (stanosis), a condition in which there is no distinctive fibrosis, no evidence of disability, and no special complicating factors.

## 12. ECOLOGICAL INFORMATION

No data on the ecological effects of this product have been developed.

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## 13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with applicable local, state and federal regulations (contact local, state, or federal environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water.

## 14. TRANSPORT INFORMATION

General information

UN Number: not regulated  
ADR/RID: not regulated  
IMO/IMDG: not regulated  
ICAO/IATA: not regulated

## 15. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM / REGULATORY INFORMATION

Health Hazard: 1-Slight: Slightly Toxic - May cause slight irritation.  
Flammability Hazard: 0-Minimal: Will not burn under normal conditions.  
Reactivity Hazard: 0-Minimal: Normally stable, does not react with water.  
Maximum Personal Protection: E- Safety Glasses, Gloves & Dust Respirator.

OCCUPATIONAL EXPOSURE LIMITS:

ACGIH TLV 2.0 mg/m3  
OSHA PEL 2.0 mg/m3  
Tin NIOSH IDLH 100 mg/m3  
IDLH = immediately dangerous to life and health

All chemical constituents of these products are listed on the TSCA inventory of chemical substances maintained by the U.S. Environmental protection Agency (EPA).

## 16. OTHER INFORMATION

SDS revised in following points  
R-phrases from dp.3 in full text  
Training advice  
Recom. restrictions by supplier  
Other information

This Safety Data Sheet has been established in accordance with Directive nr 1907/2006/EC.  
Classification references: Directive 67/548/EEC and Directive 99/45/EEC.

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