

Bronze Powder

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: Bronze Powder
Chemical Name:
Supplier: Jacobson Chemicals Ltd
 Unit 4
 Newman Lane Industrial Estate
 Alton
 Hants
 GU34 2QR
Telephone: 01420 86934
Fax: 01420 549574
E-mail: sales@jacobsonchemicals.co.uk

2. COMPOSITION

Substance: N/a
Substance Name: N/a
EC Index No: N/a
EEC Number: N/a

| <u>Substance</u> | | <u>Typical Composition</u> | <u>TLV (mg/m3)</u> | <u>CAS Nos.</u> |
|------------------|----|--------------------------------|------------------------|-----------------|
| Copper | Cu | 89% approx. | 1 | 7440-50-8 |
| Tin | Sn | 11% approx. | 2 | 7440-31-5 |

3. HAZARD IDENTIFICATION

The most important hazards are: Potential risk of explosion with acetylenic compounds. Will react violently with oxidizing agents and halogens.
Inhalation: Large quantities may cause metal fume fever.
Skin Contact: N/a
Eye Contact: N/a
Ingestion: Can cause irritation of upper respiratory tract.

4. FIRST AID MEASURES

Immediate medical attention: No
Professional assistance from physician required? No
Inhalation: Remove from area of exposure into fresh air and keep at rest - if necessary seek medical attention.
Skin Contact: Wash with mild soap and water and apply hand lotion - remove contaminated clothing.
Eye Contact: Rinse thoroughly with water.
Ingestion: No specific first aid required but if necessary seek medical attention.
Wounds: Clean and remove all powder particles, rinse with water and apply antiseptic cream.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

Bronze Powder

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media: | Use inert material and prevent dust cloud formation. Normal fire fighting equipment depending on the circumstances of the fire. |
| Unsuitable extinguishing media: | Do not use water, water jet or carbon dioxide. |
| Special protective equipment: | N/a |
| Special fire fighting procedures: | N/a |
| Exposure Hazards: | N/a |

6. ACCIDENTAL RELEASE MEASURES

| | |
|------------------------------|---|
| Personal Precautions: | Normal protective clothing such as safety glasses and gloves should be worn |
| Methods of Cleaning: | Collect using spade or scoop and collect excessive dust with vacuum cleaner and place in separate leak proof container. |

7. HANDLING & STORAGE

| | |
|------------------|---|
| Handling: | When handling, avoid generation of dust in excess of recommended occupational limits. Keep all floors, work areas, stairs and hand rails dry. Fine particles can ignite under certain conditions and, therefore, avoid dust clouds. |
| Storage: | Store in ambient temperature away from open flame and in dry conditions in a well-ventilated area. Avoid humid or damp conditions in order to eliminate oxidation. |

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

Bronze Powder

8. EXPOSURE CONTROLS

| | | | | |
|---|---|------|--------|----------------------|
| Take measures to prevent: | Avoid dusty working conditions and use adequate dust extraction. Avoid breathing dust and skin contact. | | | |
| Exposure control limits, and source: | Cu | Dust | 8hrs | 1mg/m ³ |
| | | | 15mins | 2mg/m ³ |
| | | Fume | 8hrs | 0.2mg/m ³ |
| | Sn | Dust | 8hrs | 2mg/m ³ |
| | | | 15mins | 4mg/m ³ |
| Respiratory Protection: | Insufficient ventilation then use suitable respiratory equipment with fine particle filter should be worn (P2). | | | |
| Hand Protection: | Wear protective gloves. Wash hands after handling and use barrier creams. | | | |
| Eye Protection: | Wear goggles if possible eye contact. | | | |

9. PHYSICAL & CHEMICAL PROPERTIES

| | |
|--------------------------|-----------------------------|
| Appearance: | N/a |
| Odour: | Odourless |
| Colour: | Sand coloured |
| Flash Point: | N/a |
| Viscosity: | N/a |
| Melting Point: | Cu 1083°C |
| | Sn 232°C |
| Boiling Point: | Cu 2324°C |
| | Sn 2270°C |
| Explosion Limits: | N/a |
| Specific Density: | 8.9 |
| Solubility: | N/a |
| Apparent Density: | 3.5 - 6.0 g/cm ₃ |

10. STABILITY & REACTIVITY

| | |
|--|--|
| Stability: | Stable at normal handling and storage conditions. |
| Conditions to avoid: | N/a |
| Materials to avoid: | Violent reactions with Nitric acid, acetylene, oxidizing agents, halogens, bromides, iodides, chlorates, sulphuric acid, nitric acid, potassium dioxide. |
| Hazardous decomposition products: | Hydrogen and noxious copper compounds may result from contact with any reactive materials. |

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

Bronze Powder

11. TOXICOLOGICAL INFORMATION

Inhalation of Bronze Powder or fume may cause similar symptoms to metal fume fever.

12. ECOLOGICAL INFORMATION

| | |
|----------------------------|--|
| Possible effects: | N/a |
| Behaviour: | N/a |
| Environmental fate: | Classified as an environmentally hazardous substance (UN 3077). Therefore avoid contamination of land and waterways. |

13. DISPOSAL CONSIDERATIONS

| | |
|--|---|
| Likely residues / waste products: | N/a |
| Safe handling of and residues/waste products: | Dispose of in safe manner according to local, state or federal regulations. |

14. TRANSPORT INFORMATION

| | |
|--|--|
| Special carriage precautions in carriage: | N/a |
| Classification data: | N/a |
| UN Number: | N/a |
| Proper Shipping Name: | N/a |
| IMO - Sea: | N/a |
| ICAO - Air: | N/a |
| ADR - Road: | N/a |
| Transport Category: | N/a |
| Limited Quantity Size: | N/a |
| Additional Data: | Non-classified as hazardous. Tariff HS 740 610 00 0 |

15. REGULATORY INFORMATION

| | |
|----------------------------------|-----|
| Supply label information: | N/a |
| Hazard Symbol: | N/a |
| Risk Phrases: | N/a |
| Safety Phrases: | N/a |

The Control of Substances Hazardous to Health Regulations 1996.

Occupational Exposure Standards EH40

The Chemicals (Hazard, Information and Packaging for Supply) Regs 1996

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

Bronze Powder

16. OTHER INFORMATION

- | | |
|--|---|
| a) Training needs: | For further information contact our office. |
| b) Recommended uses and restrictions: | |
| c) Further references: | |
| d) Key data sources: | In accordance with article 10 of Directive 88/379/EEC and listed in Article 3 of Directive 91/155/EEC. Chemicals (Hazard information and packaging for supply) Regulations 2002. |

The data contained in this Safety Data Sheet has been supplied as required, by the Chemicals (Hazard Identification and Packaging) Regulations 1994, as amended, for the purposes of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person in your company, who is capable of acting on the information.

NOTE:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW Act, COSHH, Management of Health and Safety at Work regulations, or other Health & Safety at Work regulations.