

MATERIAL SAFETY DATA SHEET

COPPER POWDER

1. Substance

Product Name: Copper Powder

Chemical Formula: Cu

2. Composition

<u>Substance</u>	<u>Typical Composition</u>	<u>TLV (mg/m3)</u>
Copper	99.3%	1

3. Hazards Identification

Powder may cause irritation if allowed to enter eyes.

Breathing dust may cause metal fume fever.

4. First-Aid Measures

Inhalation: Remove from area of exposure into fresh air and keep at rest - if necessary seek medical attention.

Eye Contact: Rinse thoroughly with water

Skin Contact Wash with mild soap and water and apply hand lotion - remove contaminated clothing.

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

5. Fire-Fighting Measures

Use dry inert material and prevent dust cloud formation.

6. Accidental Release Measures

Collect using spade or scoop and collect excessive dust with vacuum cleaner and place in separate leakproof container.

7. Handling and Storage

In ambient temperature away from open flame and in dry conditions in a well-ventilated area.

8. Exposure Controls and Personal Protection

Avoid dusty working conditions and use adequate dust extraction - wash hands after handling.

If insufficient ventilation then suitable respiratory equipment with fine particle filter should be worn (P2). Wear gloves and goggles if possible eye contact.

9. Physical and Chemical Properties

Flash Point	-	N/A
Melting Point	-	1083 degrees C
Boiling Point	-	2324 degrees C
Explosion Limits	-	N/A
Bulk Density	-	2.0 - 4.2 g/cm ³
Viscosity	-	N/A
Solubility	-	N/A

10. Stability and Reactivity Data

Stable at normal handling and storage conditions.

Violent reactions with Nitric Acid, acetylene and oxidising agents.

11. Toxicological Information

Copper: Oral.rat TDLo 152 mg/kg

Copper metal is non-toxic and no chronic effects known.

Inhalation of copper dust or fume may cause metal fume fever.

12. Ecological Information

Copper is toxic to fish and lower forms of life and therefore avoid contamination of land and waterways.

13. Disposal Considerations

Collect excess spillage with vacuum cleaner and dispose in safe manner according to local, state or federal regulations.

14. Transport Information

Non-classified

15. Regulatory Information

Non-classified

16. Other Information

In accordance with EEC Directive 91/155/EEC
Chemicals (Hazard information and packaging for supply) Regulations 2002