

## SAFETY DATA SHEET

### 1. Identification of Substance / Preparation and Company.

Product Name: *Bronze Powder - Fine Grades. (does not include silver powder)*  
WRIGHTS OF LYMM LTD;  
WARRINGTON LANE  
LYMM  
CHESHIRE  
WA13 0SA

### 2. Composition / Information on ingredients.

Copper	70 - 90 %	Cas No. 7440-50-8	EEC No. 231 - 159 - 6
Zinc	10 - 30 %	Cas No. 7440-66-6	EEC No. 231 - 177 - 3
Aluminium	<1	Cas No. 7429-90-5	EEC No. 231 - 072 - 3

### 3. Hazards Identification.

*LOW HAZARD* - The main hazards associated with this product are:-

Fire: Powder is quite difficult to extinguish once alight  
Inhalation: inhalation of large quantities may cause an acute effect of metal fume fever which gives rise to symptoms similar to influenza and lasts for 1 - 2 days.

Although the raw materials are not classified as hazardous, they are ingots, the finished product is a flammable solid. Keep containers tightly closed.

### 4. First Aid Measures.

Eye Contact: Flush with copious amounts of water, if irritation persists, seek medical attention.  
Skin Contact: Wash with soap and water. Remove heavily contaminated clothing and launder  
Inhalation: Remove affected person from exposure. Keep warm and quiet. Treat symptomatically administer oxygen if required. get medical help if necessary.  
Ingestion: Not normally considered as an industrial hazard, if large quantities are ingested seek medical attention.

### 5. Fire Fighting Measures.

Extinguishing Media: Dry sand / water and foam at low pressure.

### 6. Accidental Release Measures.

Preferably use a vacuum cleaner. Where this is not possible, carefully sweep up spilled material and transfer to suitable containers for subsequent disposal. Prevent any large spillage from entering drains and water courses.

### 7. Handling and Storage.

Powder should be handled carefully to minimise dust creation. Whenever possible, use a closed system to contain any dust emission. Where manual handling of powder is unavoidable use local exhaust ventilation. Ensure good standards of housekeeping are kept. Keep containers tightly closed when not in use. Store in a dry place at ambient temperatures. Store away from heat, open flames and store away from incompatible materials.

### 8. Exposure Controls / Personal Protection.

Occupational Exposure Controls: None assigned - manufacturer recommended figure. 10mg , 8 hour time weighted average ( nuisance dust ).

Respiratory Protection: Where adequate ventilation cannot be provided, personal respiratory equipment must be used.

Skin Protection: May be used if handling large quantities.

Eye Protection: May be used if handling large quantities.

### 9. Physical and Chemical Properties.

Appearance: Gold coloured powder

Odour: Very slight odour

Melting Point: 1100 c

Flash Point: N/A

Flammability: Flammable

Boiling Point: 2600 c

Solubility: Insolubility in water

### 10. Stability & Reactivity.

Product is stable under normal conditions ( see section 7)

Conditions to avoid - Heat, sparks, open flames and other sources of ignition.

Materials to avoid - Acetylene gas, bromates, chlorates, iodates, potassium dioxide, oxidising agents.

Contact with the above may result in a violent reaction.

### 11. Toxicological Information.

Acute: Inhalation of bronze powder at high concentrations may cause symptoms similar to metal fume fever - influenza type, which last for 24 -28 hours.

Chronic: No effects known.

### 12. Ecological Information.

This product consists of copper and zinc, with small amounts of aluminium. Although all these elements are present naturally in the environment, high environmental concentrations of copper zinc may have an effect on aquatic organisms.

### 13. Disposal Considerations.

No special precautions required. Product packaging may be recycled or re-used.

Do not empty into drains.

### 14. Transport Information.

UN No.:	3089	ADR/RID:	Class 4.1
IMDG Class:	4.1	ADR Packing:	II
Packing Group:	II		

### 15. Regulatory Information.

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations. The information contained in this Data Sheet does not constitute the user's own

assessment of the work place risks as required by other health and safety legislation.

**16. Other Information.**

There are several uses for this product, primarily as a metallic pigment for gold effect applications.

This Safety Data Sheet was compiled using the current safety information supplied by the distributors of the component materials.

**Revision Date : 12/05/96**