

# THESSCO LIMITED

## SAFETY DATA SHEET.

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Print Date: 31.5.10

Reference: 31120/2

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING.

**Product Name:** M25T Silver Brazing Alloy.

**Product Code:** 31120

**Supplier:** Thessco Limited,  
Royds Mills, Windsor Street,  
Sheffield S4 7WB, England.

**Emergency Telephone Number:** 0114 2720966 **Fax:** 0114 2752655

### 2. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical Name	CAS-No	EEC-No	Class	Weight %
Silver	7440-22-4	231-131-3		55.0
Copper	7440-50-8			21.0
Zinc	7440-66-6	231-175-3		22.0
Tin	7440-31-5			2.0

This alloy conforms to BS EN ISO 17672 : 2010 CuP 284.

### 3. HAZARDS IDENTIFICATION.

**Most Important Hazards:** Inhalation of zinc oxide fume may result in metal fume fever.

**Specific Hazards:** Ensure correct flux is used with brazing alloy.

### 4. FIRST AID MEASURES.

**General Advice:** Show this safety data sheet to the doctor in attendance.

**Inhalation:** Remove patient to fresh air. Seek medical attention if respiratory symptoms develop.

**Skin Contact:** Wash hands with soap and water after handling brazing alloy. If skin irritation develops seek medical attention.

**Eye Contact:** If alloy is in powder form and dust gets into eyes, irrigate with copious quantities of water or isotonic saline. Seek medical attention.

**Ingestion:** If alloy is ingested in powder form, rinse mouth with water. Give patient water or milk to drink. Do not induce vomiting. Seek medical attention.

### 5. FIRE FIGHTING MEASURES.

**Suitable Extinguishing Media:** Extinguish with dry powder or carbon dioxide.

**Extinguishing Media Which Must Not Be Used For Safety Reasons:** Water.

**Specific Hazards:** Non flammable. Molten metal is explosive if sprayed with water.

**Special Protective Equipment For Firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Specific Methods:** Not applicable.

**Product Name:** M25T Silver Brazing Alloy.

## **6. ACCIDENTAL RELEASE MEASURES.**

**Personal Precautions:** Wear personal protective equipment. If alloy is in powder form avoid getting dust in the eyes or breathing metal dust.

**Environmental Precautions:** Not applicable.

**Methods For Cleaning Up:** Not applicable.

## **7. HANDLING AND STORAGE.**

**Handling:** When using do not eat drink or smoke.

**Storage:** No special precautions required.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

### **Data Taken From Health and Safety Executive Document EH40/98.**

Occupational Exposure Limits.	Constituents and Decomposition Products.	
	Long Term Exposure Limit. (8 hour TWA Value)	Short Term Exposure Limit. (15 Minute TWA Value)
OES Silver, Metallic	0.10 mg m-3	--
OES Copper, fume	0.20 mg m-3	--
OES Zinc oxide, fume	5.0 mg m-3	10.0 mg m-3
OES Tin compounds	0.1 mg m-3	0.2mg m-3

Wear suitable protective clothing, gloves and eye / face protection during brazing.

Inhalation of fumes evolved during brazing may be harmful. Local exhaust ventilation is recommended.

## **9. PHYSICAL AND CHEMICAL PROPERTIES.**

**Form:** Metal: rods, strip, wire, rings, preforms or powders.

**Colour:** Metallic yellow.

**Odour:** None.

**pH:** Not applicable.

**Melting Point / Range:** 630-660 °C

**Relative Density:** 9.4 at 20°C

**Water Solubility:** Very slight.

## **10. STABILITY AND REACTIVITY.**

**Stability:** Stable.

**Conditions To Avoid:** Not applicable.

**Materials To Avoid:** Not applicable.

**Hazardous Decomposition Products:** Zinc oxide fume.

**Product Name:** M25T Silver Brazing Alloy.

### **11. TOXICOLOGICAL INFORMATION.**

**Acute Toxicity:** Not known.

**Local Effects:** Not known.

**Sensitization:** Not known.

**Long Term Toxicity:** Not known.

**Chronic Toxicity:** Not known.

### **12. ECOLOGICAL INFORMATION.**

**Mobility:** No information.

**Persistence and Degradability:** Long term corrosion.

**Bioaccumulation:** No information.

**Ecotoxicity Effects:** No information.

### **13. DISPOSAL CONSIDERATIONS.**

**Waste From Residues / Unused Products:** Return unused product to supplier.

**Contaminated Packaging:** Not applicable.

### **14. TRANSPORT INFORMATION.**

**Proper Shipping Name:** Metal alloy.

### **15. REGULATORY INFORMATION.**

Classification According To European Directive On Classification Of Hazardous Preparations 90/492/EEC

- **Contains:** -

- **Symbol(s):** Not applicable.

**R-Phrase(s):** R20- Harmful by inhalation.

**S-Phrase(s):** S20/21 - When using do not eat, drink or smoke.  
S22 -Do not breathe dust.  
S23 - Do not breathe fumes.  
S36/37/39 - Wear suitable protective clothing, gloves and eye / face protection.  
S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

### **16. OTHER INFORMATION.**

**Recommended Use:** For metal joining by general purpose brazing operations.

**Recommended Restrictions:** None.

**Revision Number:** 2

**Further Information:** Contact the technical department, Thessco Limited.  
Telephone number (0114) 2720966  
Fax number (0114) 2752655

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Revision 2 – Alloy specification to EN1044; Exposure controls updated to EH40198.