

**MSDS 033**  
Revised 11/2010

---

MATERIAL SAFETY DATA SHEET

MWS Wire Industries  
31200 Cedar Valley Drive  
Westlake Village, CA 91362  
(818) 991-8553

---

Trade Name: Tin Plated Copper Bus Wire

---

Chemical Family: Tin Plated Copper

---

Chemical Formula: N/A

---

HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS No.</u>	<u>TLV</u>	<u>PEL</u>	<u>STEL</u>
Copper	7440-50-8	1 (D) / 0.2 (F)	1 (D) / 0.1 (F)	2
Tin	7440-31-5	2	2	

Product composition: 88.0-98.5% Copper, 1.5-12.0% Tin

Note: TLV - American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (mg/m<sup>3</sup>)  
PEL - OSHA Permissible Exposure Level (mg/m<sup>3</sup>), 8 hour time weighted average  
STEL - ACGIH Short Term Exposure Limit (mg/m<sup>3</sup>), 15 minutes maximum  
\* Ceiling Level (Not to be exceeded)      D = Dust      F = Fume      NS = Not Specified

---

PHYSICAL DATA

Boiling Point °C: N/A                      Vapor Pressure: N/A                      Vapor Density: N/A  
% Volatile: N/A                              Evaporation Rate: N/A                      Solubility in H<sub>2</sub>O: Insoluble  
Specific Gravity: 8.80 (AWG 18)                      Melting Temperature: 1083°C (Cu), 232°C (Sn)  
Appearance & Odor: Bright to dull silvery gray color. No odor.

---

FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A                              Fire or Explosion Hazard: None

Note: Tin plated copper is nonflammable, although sparks from other operations may ignite flammable or combustible materials. Use extinguishing media suitable for surrounding materials. Fire fighters should use self-contained breathing apparatus as deemed necessary.

---

---

### HEALTH HAZARD DATA

Fine powders, granules and fumes from welding or abrasive operations may pose a health hazard. When burned, soldered or brazed tin plated copper wire and solder or brazing material may give off fumes that cause eye and/or respiratory irritation. Use adequate local exhaust to prevent irritation and maintain fume levels below OSHA ceiling limits.

Short Term Exposure: Dust and fumes irritate the eyes, nose and throat. Symptoms may include cough, metallic taste in mouth, fever, fatigue and nausea.

Long Term Exposure: Watering of the eyes, headaches, difficulty in breathing, coughing, severe chest pains and in acute cases, lung disease, lung fibrosis, pneumoconiosis or neurological damage.

Emergency First Aid Procedure:

- In case of fume inhalation, remove from exposure and consult a physician.
- In case of eye contact, flush with large amounts of water for at least fifteen minutes. Seek medical attention.
- In case of ingestion, seek immediate medical attention.

Carcinogenic assessment: None of the components of this material have been identified as known or suspected carcinogens by NTP, IARC or OSHA.

---

### REACTIVITY DATA

Stability: Stable. Hazardous polymerization will not occur.

---

### SPILL, LEAK, DISPOSAL PROCEDURES

Scrap metal may have reclamation value. Where this is not practical, it may be disposed in accordance with state and federal regulations. In solid form, tin plated copper poses no special clean up problems. If material is in powder or dust form, clean up should be conducted to minimize generation of airborne powder and dust and to avoid contamination of water. Depending on the quantity, spills or releases to the environment may require a report to the National Response Center at (800) 424-8802.

---

### SARA TITLE III SECTION 313

Copper compounds are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372 of the Federal Register. Additional information can be obtained from the Emergency Planning and Community Right-To-Know Information Hot Line, US EPA, at (800) 535-0202.

---

---

### ECHA REACH COMPLIANCE

Tin plated copper wire meets the definition of an article under REACH and does not contain SVHC listed as of the revision date of this MSDS. Also see [http://www.mwswire.com/pdf\\_files/reach.pdf](http://www.mwswire.com/pdf_files/reach.pdf) for more information on MWS Wire products and REACH.

---

### EC RoHS DIRECTIVE COMPLIANCE

Tin plated copper wire complies with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

---

### SPECIAL PROTECTION

Wear safety glasses when risk of eye injury is present, particularly during machining, grinding, welding, powder handling, etc. Gloves and other protective equipment may be required during handling operations as appropriate to the circumstances of exposure.

---

### SPECIAL PRECAUTIONS

When welding, melting, casting, grinding, sanding, polishing or otherwise abrading the surface of tin plated copper wire in a manner which generates finely divided particles, an exposure to copper and tin in excess of the occupational standard can occur. Use with adequate ventilation to meet listed exposure limits. Processes generating airborne particles must be air sampled to determine exposure levels. Where exposure data indicate, medical surveillance should be conducted.

---

### PACKAGING & LABELING REQUIREMENTS

D.O.T. Shipping Name: Not regulated

Hazard Class: NA

---

MWS Wire Industries (MWS) has attempted to provide current and accurate information in this data sheet, however MWS makes no representations regarding the accuracy or completeness of the information. Information is supplied upon the condition that the persons receiving it will make their own determinations as to its suitability prior to use. MWS assumes no liability for any loss, damage or injury of any kind which may arise out of the use or reliance on the information by any person. No warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made with respect to the foregoing information or the product to which the information refers. Contact person: Ken Goss at (818) 991-8553.

---