

**MSDS 030**  
Revised 11/2010

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MATERIAL SAFETY DATA SHEET

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

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Trade Name: Solder Plated Copper Wire

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Chemical Family: Tin/Lead Alloy Plated Copper

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Chemical Formula: N/A

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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	
Lead	7439-92-1	0.05	0.05	

Product composition: 88.0-98.5% Copper, 0.9-7.2% Tin, 0.6-4.8% Lead

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 - ACHIH 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

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PHYSICAL DATA

Boiling Point °C: NA

Vapor Pressure: NA

Vapor Density: N/A

% Volatile: NA

Evaporation Rate: NA

Solubility in H<sub>2</sub>O: Insoluble

Specific Gravity: 8.9

Melting Temperature: 1083°C (Cu) / 215°C (Sn-Pb)

Appearance & Odor: Silvery gray solid. No noticeable odor.

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FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A

Fire or Explosion Hazard: None.

Note: Solder 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. Solder exposed to temperatures above 500°C will liberate toxic lead fumes.

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### HEALTH HAZARD DATA

**Lead is known to the State of California to cause cancer, developmental toxicity, and male and female reproductive toxicity.**

Fine powders, granules and fumes from welding or abrasive operations may pose a health hazard.

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.

**Lead has been listed by either the International Agency for Cancer Research (IACR) or the National Toxicology Program (NTP) as a carcinogen (contributing to cancer).**

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### REACTIVITY DATA

Stability: Stable. Avoid contact with strong acids and oxidizers. No dangerous reactions are known.

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### 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, these alloys pose 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.

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### SARA TITLE III SECTION 313

Copper compounds and lead 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.

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### ECHA REACH COMPLIANCE

Solder plated 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.

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CALIFORNIA PROPOSITION 65 WARNING

Lead is known by the State of California to cause cancer, developmental toxicity, and male and female reproductive toxicity.

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EUROPEAN UNION RESTRICTIONS

This product contains lead exceeding 1000 ppm in a homogenous material. The European Union has banned lead from use in electrical and electronic equipment beginning July 1, 2006. For detailed information, consult Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, published in the Official Journal of the European Union on February 13, 2003.

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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.

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SPECIAL PRECAUTIONS

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

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PACKAGING & LABELING REQUIREMENTS

D.O.T. Shipping Name: Not regulated

Hazard Class: NA

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