

Material Safety Data Sheet

Section 1 - Product Information

Product Name: **WS700 Wire Solder**

Manufacturer: Qualitek International, Inc. Emergency Telephone Number: 1-800-535-5053
 315 Fairbank Street Information Telephone Number: 1-630-628-8083
 Addison, IL 60101, USA Fax Number: 1-630-628-6543

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Section 2 - Hazardous Ingredients

Hazardous Components:

<u>Chemical</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Wt. %</u>
Tin	7440-31-5	2.00 mg/m ³	2.00 mg/m ³	*
** Lead	7439-92-1	0.05 mg/m ³	0.15 mg/m ³	*
** Silver	7440-22-4	0.01 mg/m ³	0.10 mg/m ³	*

Non-Hazardous Components: Other ingredients are not considered hazardous according to 29 CFR 1910.1200

Hazard Rating Systems

HMIS: Health: 2 Flammability: 0 Reactivity: 0 Personal Protection: X

Section 3 - Physical and Chemical Characteristics

<u>Boiling Point:</u> 2,516°F (1,380°C)	<u>Specific Gravity (H₂O = 1 @25°C):</u> Varies According to Composition.
<u>Melting Point:</u> Varies According to Composition.	<u>Vapor Pressure (mm Hg):</u> 1 @1,591°F(866°C) Not Applicable at room temperature 68°F(20°C)
<u>Solubility in Water:</u> Partial	<u>Vapor Density (AIR=1):</u> Not Applicable
<u>Appearance and Odor:</u> Silver gray metal in wire form, odorless	<u>Evaporation Rate(Butyl Acetate=1):</u> Not Applicable

Section 4 - Fire and Explosion Data

<u>Flash Point:</u> Non flammable	<u>Flammable Limits:</u> LEL Not applicable UEL Not applicable
<u>Extinguishing Media:</u> Not applicable	<u>Special Fire Fighting Procedures:</u> None
<u>Unusual Fire and Explosion Hazards:</u> None	

Section 5 - Reactivity Data

Incompatibility (Materials to Avoid): Strong acids, strong oxidizers
Hazardous Decomposition or Byproducts: If melted or cut, may release metal dust or fumes.
Hazardous Polymerization: May Occur: Will not Occur:
Conditions to Avoid: -None

*Composition and weight % of Solder Wire vary widely, and can be determined by product label. Solder Wire is typically 96-99% alloy metal composition.

**Subject to reporting requirements of SARA TITLE III, Section 313 and 40 CFR Part 372.

Section 6 - Health Hazards

Route(s) of Entry: Inhalation? Skin? Ingestion?

Acute (Severe Short Term) Health Hazards: may lead to central nervous system disorders, exposures of this magnitude in an industrial environment are extremely unlikely.

Chronic (Long Term) Health Hazards: long term exposure to lead may cause damage to blood forming, nervous, kidney, and reproductive systems. Damage may include reduced fertility in both men and women.

Carcinogenicity: Not listed as a carcinogen by NTP, OSHA, ACGIN: IARC classifies lead and its compounds as a Group 2B carcinogen (possibly carcinogenic to humans)

Signs and Symptoms of Exposure: Metallic taste, anemia, insomnia, weakness, constipation, abdominal pain, gastrointestinal disorders, joint and muscle pains and muscular weakness.

Medical Conditions Generally Aggravated by Exposure: Diseases of the blood and blood forming organs; kidneys, nerves and possibly reproductive systems.

Emergency and First Aid Procedures: Perform the following First Aid Procedures; consult a Physician and get proper medical attention when necessary.

Eye Contact: Flush well with running water to remove particulate

Skin Contact: Wash thoroughly with soap and water. If molten solder comes in contact with skin, cool with water.

Inhalation: Remove victim to fresh air. If breathing stops, give CPR and contact a physician.

Ingestion: Drink a lot of water, DO NOT INDUCE VOMITING and get proper medical attention

Section 7 - Special Precautions and Spill/Leak Procedures

Steps to be taken in Case Material is Released or Spilled: In solid state, pick-up & reuse. When molten, let solidify and: if not contaminated - reuse, if contaminated - dispose of property.

Waste Disposal Method: Dispose in accordance with Federal, State, and local regulations.

Precautions to be taken in Handling and Storage: Practice good housekeeping procedures.

Other Precautions: Inadvertent contaminants such as moisture or oil can cause an explosion when charged to molten metal. (Preheating will remove moisture)

Section 8 - Special Protection Information / Control Measures

Respiratory Protection: Select respirator in accordance with OSHA lead exposure standard 29 CFR 1910.1025 and respirator standard 29 CFR 1910.134.

Ventilation: As required keep exposures below the PEL & TLV .

Protective Gloves: Recommended to avoid contact.

Eye Protection: Safety glasses or goggles recommended. In addition face shield recommended around molten metal.

Other Protective Clothing or Equipment: Full protection clothing and shoes for lead exposures above PEL.

Work / Hygienic Practices: Wash hands and face after handling product. Do not permit eating, drinking, smoking, or applying cosmetics in product work areas. If lead exposure over PEL, shower at end of work shift.

Section 9 - Other Regulatory Information

TSCA: Subject Chemical substance(s) and ingredient(s) are listed on the "TSCA Inventory" of Chemical substances maintained by the U.S. Environmental Protection Agency.

CERCLA: As sold, in wire form, there is no RQ (reportable quantity) for this product; however if metal is made into pieces smaller than 100 micrometers, the RQ for lead is 10 pounds and the RQ for silver is 1,000 pounds. Contact Local Authorities to determine if there are any local reporting requirements.

California Proposition 65: This product contains lead, a chemical known to some states to cause cancer and birth defects or other reproductive harm.

DOT: DOT Proper Shipping Name - not regulated by DOT

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and Health Act (OSHA), and Canada Workplace Hazardous Materials Information System (WHMIS), require that employees must be trained on the use of Material Safety Data Sheets as a source of hazardous information.