



# Material Safety Data Sheet

## Section 1 - Product Information

Product Name: **Solder Paste Type 315D**

Manufacturer : Qualitek International, Inc.  
315 Fairbank Street  
Addison, IL 60101, USA

Emergency Telephone Number: 1-800-535-5053

Information Telephone Number: 1-630-628-8083

Fax Number: 1-630-628-6543

Date Prepared: 01/14/99

Supercedes: 04-15-96

Supercedes: 06-15-94

## Section 2 – Ingredients / Identity

### Hazardous

<u>Chemical Common Name(s)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Wt. %</u>	<u>CAS #</u>
**Lead	0.05 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>	*	7439-92-1
Tin	2.00 mg/m <sup>3</sup>	2.00 mg/m <sup>3</sup>	*	7440-31-5
**Silver	0.01 mg/m <sup>3</sup>	0.10 mg/m <sup>3</sup>	*	7440-22-4
Bismuth	N/E	N/E	*	7440-69-9
**Antimony	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	*	7440-36-0
Modified Rosin	N/E	N/E	<3	112-73-2
High Boiling Glycol Ether	N/E	N/E	< 6	65997-13-9

### Hazard Rating Systems

HMIS: Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: B

## Section 3 - Physical and Chemical Characteristics

Boiling Point: 493°F (Vehicle)

Specific Gravity (H<sub>2</sub>O = 1): 3.5-5.5

Vapor Pressure (mm Hg): 218 @173°F(78°C)

Melting Point: Not Applicable

Vapor Density (AIR=1): N/D

Evaporation Rate(Butyl Acetate=1): <1

Solubility in Water: Partial

Appearance and Odor: Metallic gray paste with mild color.

## Section 4 - Fire and Explosion Data

Flash Point: >240°F

Flammable Limits in Air % by Volume:

Auto Ignition Temperature: >440°F

LEL Lower: N/E

UEL Upper: N/E

Special Fire Fighting Procedures: SCBA with full face piece and protective clothing is recommended, if this material is in the vicinity of fire.

Unusual Fire and Explosion Hazards: None Known

## Section 5 - Reactivity Data

Stability: Stable  Unstable

Incompatibility (Materials to Avoid):

Strong Bases; Strong Oxidizers

Hazardous Decomposition or Byproducts:

None

Hazardous Polymerization:

May Occur:  Will not Occur:

\*Composition and weight % of Solder Powder vary widely, and can be determined by product label. Solder powder is typically 85-90% of solder paste composition.

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

## Section 6 - Health Hazards

Acute (Severe Short Term): Inhalation of fumes or ingestion may cause headache, nausea, muscular pain. Irritation of eye and nose may result from contact with soldering fumes.

Chronic (prolonged): Anemia, Insomnia, weakness, constipation, nausea and abdominal pain due to ingestion. Skin rash, damage of mucous membrane due to skin exposure and inhalation.

Signs and Symptoms of Exposure: Irritation of Pulmonary system, skin rash.

Medical Conditions generally Aggravated by Exposure: Pre-existing conditions of the lungs, diseases of the blood and blood forming organs; kidneys, nerves and possibly reproductive systems.

Chemical Listed as Carcinogen: Non according to NTP, IARC, and OSHA.

Emergency and First Aid Procedures: Perform the following First Aid Procedures; consult a physician and get proper medical attention when necessary, in case of contact with smoke from soldering or repeated skin contact.

**Eye Contact**: Flush eyes with plenty of water for 15 minutes.

**Skin Contact**: Wash thoroughly with soap and water; use lotion to prevent dryness. If molten solder comes in contact with skin cool with water.

**Ingestion**: Drink a lot of water, do not induce vomiting and get proper medical attention.

## Section 7 - Special Precautions and Spill/Leak Procedures

Handling and Storage: Do not store near spark or flame. Keep containers closed tightly and upright to prevent leakage.

Other Precautions: Avoid repeated or prolonged breathing of vapor or skin contact; wash hands immediately, remove paste from under finger nails.

If Material is Released or Spilled: Scoop up paste and deposit in appropriate containers. Clean up residual with Isopropanol or detergent water.

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

## Section 8 - Special Protection Information / Control Measures

Respiratory Protection: Usually not needed.

Ventilation: Local and/or General ventilation should be used to keep exposures below limits.

Protective Gloves: Chemical resistant gloves recommended.

Eye Protection: Chemical goggles recommended.

Other Protective Clothing or Equipment: As needed to avoid contact.

Work / Hygienic Practices: Wash hands after handling product.

## 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: If this product is accidentally spilled, it is not subject to any special reporting requirements of the Comprehensive Environmental Response, Compensation And Liability Act ("CERCLA") Contact Local Authorities to determine if there are any local reporting requirements.

SARA TITLE III: Section 311/312 and Section 313 - This product is not subject to the Emergency Planning and Community Right-To-Know reporting requirements.

DOT: DOT Proper Shipping Name - Not regulated as a Department of Transportation Hazardous Material.

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

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