



Material Safety Data Sheet

Section 1 - Product Information

Product Name: **Solder Paste Type 215D/216D**
 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
 Date Prepared: 01/15/99
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Section 2 – Ingredients / Identity

Hazardous

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

Hazard Rating Systems

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

No other hazardous ingredients exceed 1%. Other ingredients are not considered hazardous according to 29 CFR 1910.1200

Section 3 – Physical and Chemical Characteristics

Boiling Point: 493° F (Vehicle) Specific Gravity (H₂O = 1): 3.5-5.5
Vapor Pressure (mm Hg):N/D Melting Point: (Of Alloy): Refer to Technical Bull.
Vapor Density (AIR²=1): N/D Reactivity in Water: None
Solubility in Water: Partial
Appearance and Odor: Metallic Gray Paste with Mild Odor

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 Conditions to Avoid: None
Incompatibility (Materials to Avoid): Strong Acids, Strong Oxidizers
Hazardous Decomposition or By Products: May release toxic vapor/gases such as Carbon Monoxide, Carbon Dioxide

*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) Health Hazards:

Inhalation of fumes or ingestion may cause headache, nausea, muscular pain, irritation of eye and nose may result from contact with soldering fumes.

Chronic (Long Term) Health Hazards:

Anemia, insomnia, weakness, constipation and abdominal pain due to ingestion, skin rash, damage to 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.

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).

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.

Inhalation: Remove person to fresh air

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 or use near spark or flame. Keep containers closed tightly and upright to prevent leakage.

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

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

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

Section 8 – Special Protection Information / Control Measures

Respiratory Protection: Usually not required. When ventilation is not adequate to remove smoke (during soldering) from breathing zone a cartridge type respirator should be used.

Ventilation & Local Exhaust: As required keep PEL & TLV below the limit

Protective Gloves: Neoprene or rubber

Eye Protection: Splash guard goggles.

Other Protective Equipment: Not required.

Work / Hygienic Practices: Wash hands after handling product, avoid prolonged or repeated contact with skin or breathing fumes and vapors.

Section 9 - Other Regulatory Information

TSCA: Subject chemical substance(s) and ingredient(s) are all 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 - This product is classified into the following hazard categories: Immediate Health, Delayed Health, Fire. Section 313 - This product is not subject to the Community Right-To-Know reporting requirements.

DOT: DOT Proper Shipping Name - Flammable Liquids, n.o.s. (contains Isopropyl alcohol), 3, UN 1993, II

California Proposition 65: This product contains lead, when used for soldering and similar applications produces chemicals known to some states to cause birth defects or other reproductive harm.

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