SAFETY DATA SHEET

Date Issued: 11/01/2011
MSDS No: 825HF (Sn/Ag/Cu)
Date Revised: 03/18/2025
Revision No: 7

Qualitek® No Clean DSP 825HF Sn96.5/Ag3/Cu0.5 Alloy

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Qualitek® No Clean Lead-Free Solder Paste Type 825HF Sn96.5/Ag3/Cu0.5 Alloys
PRODUCT DESCRIPTION: No Clean Lead-Free Solder Paste

MANUFACTURER

Qualitek International, Inc.
315 Fairbank St.
Addison, IL 60101
Emergency Phone: (800) 535-5053
Service Number: (630) 628-8083

24 HR. EMERGENCY TELEPHONE NUMBERS

1-800-535-5053 Infotrac
1-352-323-3500 Outside the U.S.

2. HAZARDS IDENTIFICATION

GHS LABEL

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: W ash hands thoroughly after handling.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of water/...
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

P235: Keep cool.

Disposal:

P501: Dispose of contents/container in accordance to local/regional/national/international regulations.

POTENTIAL HEAL TH EFFECTS

EYES: Fumes from this and other soldering products may cause eye irritation.
SKIN: Fumes from this and other soldering products may cause skin irritation.
INGESTION: Ingestion of this or other soldering products may cause headache, nausea, and muscular pain.
INHALA TION: Inhalation of the fumes from this or other soldering products may cause headache, nausea and muscular pain.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Tin	83.6 – 86.3	7440-31-5
Silver	2.5 – 3.7	7440-22-4
Copper	0.3 – 0.8	7440-50-8
Modified Rosin	< 6	65997-13-9
Glycol Ether Solvent	< 3	55934-93-5

4. FIRST AID MEASURES

EYES: MOLTEN PRODUCT: Cool burns with plenty of low-pressure water. Get immediate medical attention. SOLID PRODUCT: Remove any contact lenses. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention if irritation develops.

SKIN: MOLTEN PRODUCT: Immeditely cool skin burns with water and cold packs for at least 15 minutes. Do not put ice directly on the skin. Do not attempt to remove solidified product from the skin, as damage may result. Get immediate medical attention. SOLID PRODUCT: Immediately wash skin with soap and copious amounts of water. Use lotion to prevent dryness. Get medical attention if irritation develops.

INGESTION: If person is conscious, immediately give 2 glasses of water. Do not induce vomiting. Get immediate medical attention.

INHALATION: If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

SKIN: Discomfort or rash.

INHALA TION: Irritation of the pulmonary system.

CHRONIC EFFECTS: Prolonged or repeated exposure due to ingestion may cause anemia, insomnia, weakness, constipation and abdominal pain. Prolonged or repeated exposure due to skin exposure and inhalation may cause skin rash and damage to the mucous membranes.

COMMENTS: If victims of chemical over-exposure are taken for medical attention, give a copy of the label or this MSDS to the physician/health care professional.

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5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: > 98°C (209°F)
FLAMMABLE LIMITS: Not Established
AUTOIGNITION TEMPERATURE: > 227°C (440°F)
EXPLOSION HAZARDS: None known.
FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece operated in positive pressure demand mode, appropriate turn-out gear and chemical resistant personal protective equipment is recommended.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Scoop up material and deposit in appropriate containers. Clean up residual spill area with isopropanol or detergent water.

RELEASE NOTES: Avoid repeated or prolonged breathing or skin contact. Wash hands immediately and remove material from under the fingernails.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not store or use near sparks or open flames. Keep containers tightly closed and upright when not in use in order to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled and in closed equipment. Special local ventilation is needed at points where vapors can be expected to escape into the workplace air.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Face shield, safety glasses with side shield or chemical splash goggles. When working with molten material, face shield is recommended.

SKIN: Rubber, chemical resistant gloves. When material is heated, wear gloves to protect against thermal burns.

RESPIRATORY: Not normally needed in well ventilated areas. If the ventilation is insufficient to remove smoke from soldering processes, use NIOSH/MSHA approved cartridge type respirator.

PROTECTIVE CLOTHING: Protective clothing and safety shoes as necessary to minimize contact.

WORK HYGIENIC PRACTICES: Good personal hygiene practices should be used. Wash after any contact, before eating, and at the end of the work period.

OTHER USE PRECAUTIONS: Eye wash station and quick drench safety shower in immediate work area.

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9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild.
APPEARANCE: Paste.
COLOR: Metallic gray.
FLASH POINT AND METHOD: > 98°C (209°F).
FLAMMABLE LIMITS: Not Established
AUTOIGNITION TEMPERATURE: > 227°C (440°F)
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
BOILING POINT: 300°C (572°F) (vehicle)
MELTING POINT: 217°C (423°F) to 221°C (430°F) (Please refer to Technical Bulletin for specific alloy data)
SOLUBILITY IN WATER: Partially Soluble
SPECIFIC GRAVITY: 7.31 to 7.47 (water=1)

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary use and storage conditions.
POLYMERIZATION: Will not occur under normal use and storage conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of carbon monoxide and carbon dioxide.
INCOMPATIBLE MATERIALS: Strong acids and strong oxidizers should be avoided.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: No toxicological information available at this time.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: No information on ecological toxicity or biodegradability is available at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of this material, contaminated absorbent material and other contaminated materials in an approved waste disposal facility, according to all applicable Federal, State, and Local regulations. Recovery and reuse, rather than disposal, should be the ultimate goal in handling efforts.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not regulated by DOT

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)311/312 HAZARD CATEGORIES: Chronic health hazard.

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313 REPORTABLE INGREDIENTS: Silver CAS# 7440-22-4, Copper CAS# 7440-50-8 (weight percentages can be determined from product label)

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients are listed or are exempt from listing (as polymers) on the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CALIFORNIA PROPOSITION 65: When used for soldering and similar applications chemicals may be produced which are known to some states to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

APPROVED BY: P. Han **TITLE:** Technical Director

PREPARED BY: R. Layug

INFORMATION CONTACT: (630) 628-8083

HMIS RATING

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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