

# SAFETY DATA SHEET



Date Prepared : 09/13/2016  
 SDS No : NC611 (SAC305)  
 Date Revised : 08/18/2017  
 Revision No : 1

## Delta® NC611 No Clean Solder Wire - LF965-30 (Sn96.5/Ag3.0/Cu0.5)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Delta® NC611 No Clean Solder Wire - LF965-30 (Sn96.5/Ag3.0/Cu0.5)

**PRODUCT DESCRIPTION:** No Clean Lead Free Solder Wire

#### MANUFACTURER

Qualitek International, Inc.

315 Fairbank Street

Addison, IL 60101

**Emergency Phone:** (800)535-5053

**Customer Service:** (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)

##### 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.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

##### Storage:

P402: Store in a dry place.

##### Disposal:

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

#### POTENTIAL HEALTH 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.

**INHALATION:** Inhalation of the fumes from this or other soldering products may cause headache, nausea and muscular pain.

**CARCINOGENICITY:** Not listed as a carcinogen by NTP, OSHA, or ACGIH.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing conditions of the lungs, kidneys, nervous system and possibly reproductive systems; diseases of the blood forming organs

**ROUTES OF ENTRY:** Inhalation, ingestion, eye or skin contact.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name      | Wt. %       | CAS        |
|--------------------|-------------|------------|
| Tin                | 92.3 - 96.2 | 7440-31-5  |
| Silver             | 2.7 - 3.2   | 7440-22-4  |
| Copper             | 0.3 - 0.7   | 7440-50-8  |
| Hydrogenated Rosin | < 3         | 65997-06-0 |

### 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:** Immediately 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.

**INHALATION:** 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 SDS to the physician/health care professional.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Alcohol foam, carbon dioxide, or dry chemical.

**EXPLOSION HAZARDS:** Closed containers may explode when exposed to fire conditions.

**FIRE FIGHTING EQUIPMENT:** Self contained breathing apparatus with full face piece operated in positive

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## Delta® NC611 No Clean Solder Wire - LF965-30 (Sn96.5/Ag3.0/Cu0.5)

pressure demand mode, appropriate turn-out gear and chemical resistant personal protective equipment is recommended.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** If the material is in its solid state, pick up and reuse. When molten, allow to solidify, and then reuse if it is not contaminated. If contaminated, refer to Section 13 for proper disposal procedures.

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Odorless.

**APPEARANCE:** Metal in wire form.

**COLOR:** Silver gray

**FLASH POINT AND METHOD:** Not Applicable

**FLAMMABLE LIMITS:** Not Established

# SAFETY DATA SHEET



Date Prepared : 09/13/2016  
SDS No : NC611 (SAC305)  
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## Delta® NC611 No Clean Solder Wire - LF965-30 (Sn96.5/Ag3.0/Cu0.5)

**AUTOIGNITION TEMPERATURE:** Not Applicable  
**VAPOR PRESSURE:** 1 mmHg at 866°C (1591°F)  
**VAPOR DENSITY:** Not Determined  
**BOILING POINT:** 1380°C (2516°F) @ 760 mmHg  
**MELTING POINT:** 217°C (423°F) to 219°C (426°F) (alloy)  
**SOLUBILITY IN WATER:** Partially Soluble  
**SPECIFIC GRAVITY:** 5.9 to 7.0 (water=1)

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use and storage conditions.  
**STABILITY:** Stable under ordinary 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.

# SAFETY DATA SHEET



Date Prepared : 09/13/2016  
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## Delta® NC611 No Clean Solder Wire - LF965-30 (Sn96.5/Ag3.0/Cu0.5)

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

### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** As a solid in wire form, there is no reportable quantity (RQ) for this product. However, if it is cut into pieces smaller than 100 micrometers, the RQ for silver is 1000 lbs., and the RQ for copper is 5000 lbs. Please contact local authorities to determine if there are any local reporting requirements.

### 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

**REASON FOR ISSUE:** New format

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

**PREPARED BY:** J. Saleda-Layton **Date Revised:** 08/18/2017

**INFORMATION CONTACT:** (630) 628-8083

**REVISION SUMMARY:** This SDS replaces the 09/13/2016 SDS. Revised: **Section 1: REASON FOR ISSUE.**

### HMIS RATING

|                            |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/>            | <b>1</b> |
| <b>FLAMMABILITY</b>        | <input type="checkbox"/>            | <b>0</b> |
| <b>PHYSICAL HAZARD</b>     | <input type="checkbox"/>            | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <input checked="" type="checkbox"/> | <b>X</b> |

**MANUFACTURER DISCLAIMER:** The information contained herein is based upon data considered to be accurate and is offered solely for information, customer consideration and investigation. The manufacturer extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The content of this Safety Data Sheet relates only to this product as sold and does not relate to use with any other material or in any process. All chemical products should be used only by, or under, the direction of technically qualified personnel, who are aware of the hazards involved and of the necessity for reasonable care in handling. Hazard communication regulations, United States Occupational Health and Safety (OSHA) and Canadian Workplace Hazardous Materials Information System (WHMIS) require that employees must be trained in the use of Safety Data Sheets as a source of hazards information and response.

# SAFETY DATA SHEET



Date Prepared : 01/16/2017

SDS No : NC611 - Sn100e

Date Revised : 08/18/2017

Revision No : 1

## Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)**PRODUCT DESCRIPTION:** Lead Free Solder Wire**MANUFACTURER**

Qualitek International, Inc.

315 Fairbank Street

Addison, IL 60101

**Emergency Phone:** (800)535-5053**Customer Service:** (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)****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.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Fumes from this and other soldering products may cause eye irritation.

**INGESTION:** Ingestion of this or other soldering products may cause headache, nausea, and muscular pain.

**INHALATION:** Inhalation of the fumes from this or other soldering products may cause headache, nausea and muscular pain.

**CARCINOGENICITY:** Not listed as a carcinogen by NTP, OSHA, or ACGIH.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing conditions of the lungs, kidneys, nervous system and possibly reproductive systems; diseases of the blood forming organs

**ROUTES OF ENTRY:** Inhalation, ingestion, eye or skin contact.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt. %       | CAS       |
|---------------|-------------|-----------|
| Tin           | 96.5 - 98.5 | 7440-31-5 |
| Copper        | 0.3 - 0.7   | 7440-50-8 |

# SAFETY DATA SHEET



Date Prepared : 01/16/2017

SDS No : NC611 - Sn100e

Date Revised : 08/18/2017

Revision No : 1

## Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)

Hydrogenated Rosin

&lt; 3

65997-06-0

### 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:** Immediately 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.

**INHALATION:** 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 SDS to the physician/health care professional.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Alcohol foam, carbon dioxide, or dry chemical.

**EXPLOSION HAZARDS:** Closed containers may explode when exposed to fire conditions.

**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:** If the material is in its solid state, pick up and reuse. When molten, allow to solidify, and then reuse if it is not contaminated. If contaminated, refer to Section 13 for proper disposal procedures.

**RELEASE NOTES:** Avoid repeated or prolonged breathing or skin contact. Wash hands immediately, and remove

# SAFETY DATA SHEET



**Date Prepared :** 01/16/2017

**SDS No :** NC611 - Sn100e

**Date Revised :** 08/18/2017

**Revision No :** 1

## Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Odorless.

**APPEARANCE:** Metal in wire form.

**COLOR:** Silver gray

**FLASH POINT AND METHOD:** Not Applicable

**FLAMMABLE LIMITS:** Not Established

**AUTOIGNITION TEMPERATURE:** Not Applicable

**VAPOR PRESSURE:** 1 mmHg at 866°C (1591°F)

**VAPOR DENSITY:** Not Determined

**BOILING POINT:** 1380°C (2516°F) @ 760 mmHg

**MELTING POINT:** 227°C (441°F) (alloy)

**SOLUBILITY IN WATER:** Partially Soluble

# SAFETY DATA SHEET



**Date Prepared :** 01/16/2017

**SDS No :** NC611 - Sn100e

**Date Revised :** 08/18/2017

**Revision No :** 1

## Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)

**SPECIFIC GRAVITY:** 5.9 to 7.0 (water=1)

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use and storage conditions.

**STABILITY:** Stable under ordinary 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.

**313 REPORTABLE INGREDIENTS:** Copper CAS# 7440-50-8 (weight percentage can be determined from product label)

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** As a solid in wire form, there is no reportable quantity (RQ) for this product. However, if it is cut into pieces smaller than 100 micrometers, the RQ for silver is 1000 lbs., and the RQ for copper is 5000 lbs. Please contact local authorities to determine if there are any local reporting requirements.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

# SAFETY DATA SHEET



**Date Prepared :** 01/16/2017

**SDS No :** NC611 - Sn100e

**Date Revised :** 08/18/2017

**Revision No :** 1

## Delta® NC611 No Clean Solder Wire - Sn100e (Sn/Cu/Co)

**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

**REASON FOR ISSUE:** New format

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

**PREPARED BY:** J. Saleda-Layton    **Date Revised:** 08/18/2017

**INFORMATION CONTACT:** (630) 628-8083

**REVISION SUMMARY:** This SDS replaces the 01/16/2017 SDS. Revised: **Section 1: REASON FOR ISSUE.**

#### HMIS RATING

|                            |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/>            | <b>1</b> |
| <b>FLAMMABILITY</b>        |                                     | <b>0</b> |
| <b>PHYSICAL HAZARD</b>     |                                     | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <input checked="" type="checkbox"/> |          |

**MANUFACTURER DISCLAIMER:** The information contained herein is based upon data considered to be accurate and is offered solely for information, customer consideration and investigation. The manufacturer extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The content of this Safety Data Sheet relates only to this product as sold and does not relate to use with any other material or in any process. All chemical products should be used only by, or under, the direction of technically qualified personnel, who are aware of the hazards involved and of the necessity for reasonable care in handling. Hazard communication regulations, United States Occupational Health and Safety (OSHA) and Canadian Workplace Hazardous Materials Information System (WHMIS) require that employees must be trained in the use of Safety Data Sheets as a source of hazards information and response.

# SAFETY DATA SHEET



Date Prepared : 02/23/2010  
SDS No : RMA - Wand  
Date Revised : 08/21/2017  
Revision No : 3

## Qualitek® RMA Rework Wand

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Qualitek® RMA Rework Wand

**PRODUCT DESCRIPTION:** RMA Rework Wand

**MANUFACTURER**

Qualitek International, Inc.  
315 Fairbank St.  
Addison, IL 60101  
**Emergency Phone:** (800) 535-5053  
**Customer Service:** (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 CLASSIFICATIONS**

**Health:**

Eye Irritation, Category 2A

**GHS LABEL**



Exclamation  
mark

**SIGNAL WORD:** WARNING

**HAZARD STATEMENTS**

H319: Causes serious eye irritation.

**PRECAUTIONARY STATEMENT(S)**

**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.  
P302+P352: IF ON SKIN: Wash with plenty of water/...

**Disposal:**

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

**POTENTIAL HEALTH EFFECTS**

**EYES:** Irritating, and may injure eye tissue if not removed promptly.

**SKIN:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

# SAFETY DATA SHEET



Date Prepared : 02/23/2010  
 SDS No : RMA - Wand  
 Date Revised : 08/21/2017  
 Revision No : 3

## Qualitek® RMA Rework Wand

**INGESTION:** Minimal toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

**INHALATION:** High vapor concentrations are irritating to the eyes, nose throat and lungs. May cause headaches and dizziness and may have other central nervous system effects. Negligible hazard at ambient temperature (-18 to 38°C).

**CARCINOGENICITY:** This product contains no components at concentrations of 0.1 percent or greater that are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name         | Wt. % | CAS       |
|-----------------------|-------|-----------|
| 2-Propanol            | < 65  | 67-63-0   |
| Rosin (Non-hazardous) | < 35  | 8050-09-7 |

### 4. FIRST AID MEASURES

**EYES:** Remove any contact lenses. Immediately flush eyes with large quantities of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get medical attention as soon as possible.

**INGESTION:** If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

**INHALATION:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Stinging, tearing, redness and swelling.

**SKIN:** Redness, burning, drying, cracking and rash.

**INGESTION:** Nausea, vomiting, impaired coordination, diarrhea, dizziness, drowsiness, weakness, fatigue, headache and loss of consciousness.

**NOTES TO PHYSICIAN:** If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered. Metabolism of isopropanol forms acetone, which may be detected in the urine or expired air. In contrast to diabetic acidosis, acidosis will occur in the absence of hyperglycemia. Hemodialysis should be considered in severe acute intoxications.

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

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Alcohol foam, carbon dioxide, or dry chemical.

# SAFETY DATA SHEET



Date Prepared : 02/23/2010  
 SDS No : RMA - Wand  
 Date Revised : 08/21/2017  
 Revision No : 3

## Qualitek® RMA Rework Wand

**HAZARDOUS COMBUSTION PRODUCTS:** May include carbon monoxide and carbon dioxide.

**FIRE FIGHTING PROCEDURES:** Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam. Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

**FIRE FIGHTING EQUIPMENT:** Self contained breathing apparatus and full protective turn-out gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered materials and ensure conformity to local disposal regulations.

**LARGE SPILL:** If in public area, keep public away and advise authorities. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult Section 13 for disposal information.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** In the event of a water spill, eliminate all sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request that all stay clear.

**LAND SPILL:** In the event of a land spill, prevent liquid from entering sewers, watercourses, or low areas.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep container closed. Handle and open containers with care. DO NOT handle near an open flame, heat, or other sources of ignition. DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

**STORAGE:** Store in a cool, well ventilated place away from incompatible materials. Do not store near an open flame, heat, or other source of ignition. Protect materials from direct sunlight.

**ELECTROSTATIC ACCUMULATION HAZARD:** Use proper grounding and bonding procedures when transferring material.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general and/or local exhaust ventilation to control airborne levels below the OSHA/ACGIH exposure guidelines.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear splash goggles or glasses with face shield.

**SKIN:** Neoprene rubber gloves, impermeable gloves, cuffed butyl-rubber gloves, or nitrile rubber gloves.

**RESPIRATORY:** Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures and/or without sufficient ventilation, use a NIOSH/MSHA approved air-purifying respirator.

# SAFETY DATA SHEET



Date Prepared : 02/23/2010  
SDS No : RMA - Wand  
Date Revised : 08/21/2017  
Revision No : 3

## Qualitek® RMA Rework Wand

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild ethereal odor.

**APPEARANCE:** Liquid

**COLOR:** Light amber.

**AUTOIGNITION TEMPERATURE:** 456°C (852°F)

**VAPOR PRESSURE:** 33 mmHg at 20°C (68°F)

**BOILING POINT:** 82°C (180°F)

**MELTING POINT:** Not Applicable

**SOLUBILITY IN WATER:** Partially Soluble

**EVAPORATION RATE:** < 2.3 (n-Butyl Acetate=1)

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** May occur.

**STABILITY:** Stable under ordinary use and storage conditions.

**CONDITIONS TO AVOID:** Ignition sources such as sparks and open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May emit toxic fumes of carbon monoxide and carbon dioxide.

**INCOMPATIBLE MATERIALS:** Caustics, amines, alkanoamines, aldehydes, strong oxidizing agents, and chlorinated compounds.

### 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.

# SAFETY DATA SHEET



**Date Prepared :** 02/23/2010  
**SDS No :** RMA - Wand  
**Date Revised :** 08/21/2017  
**Revision No :** 3

## Qualitek® RMA Rework Wand

**EMPTY CONTAINER:** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or otherwise properly disposed of.

**GENERAL COMMENTS:** This substance, when discarded or disposed of, could be hazardous waste according to Federal regulations (40 CFR 261) due to its characteristic of ignitability (D001). The transportation, storage, and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Check state and local regulations for any additional requirements, as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in the MSDS incomplete, inaccurate or otherwise inappropriate.

### 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:** Acute health, chronic health and fire hazard.

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

##### 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.

#### CANADA

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** WHMIS Hazardous Ingredients: 2-Propanol

**WHMIS CLASS:** Class B Division 2, Class D Division 2B

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** New format

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

**PREPARED BY:** J. Saleda-Layton    **Date Revised:** 08/21/2017

# SAFETY DATA SHEET



**Date Prepared :** 02/23/2010  
**SDS No :** RMA - Wand  
**Date Revised :** 08/21/2017  
**Revision No :** 3

## Qualitek® RMA Rework Wand

**INFORMATION CONTACT:** (630) 628-8083

**REVISION SUMMARY:** This SDS replaces the 05/05/2015 SDS.

### HMIS RATING

|                            |                          |          |
|----------------------------|--------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/> | <b>1</b> |
| <b>FLAMMABILITY</b>        | <input type="checkbox"/> | <b>0</b> |
| <b>PHYSICAL HAZARD</b>     | <input type="checkbox"/> | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <input type="checkbox"/> | <b>B</b> |

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# SAFETY DATA SHEET



Date Prepared : 12/10/2009

SDS No : SAC305 TT

Date Revised : 08/21/2017

Revision No : 4

## Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)**PRODUCT DESCRIPTION:** Lead Free Tip Tinner**MANUFACTURER**

Qualitek International, Inc.

315 Fairbank Street

Addison, IL 60101

**Emergency Phone:** (800)535-5053**Customer Service:** (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****HAZARD STATEMENTS**

H303: May be harmful if swallowed.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P264: Wash hands thoroughly after handling.

**Response:**

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Disposal:**

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

**POTENTIAL HEALTH 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.**INHALATION:** Inhalation of the fumes from this or other soldering products may cause headache, nausea and muscular pain.**CARCINOGENICITY:** Not listed as a carcinogen by NTP, OSHA, or ACGIH. IARC classifies "lead and its compounds" as a Group 28 Carcinogen (possibly carcinogenic to humans).**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing conditions of the lungs, kidneys, nervous system and possibly reproductive systems; diseases of the blood forming organs

# SAFETY DATA SHEET



Date Prepared : 12/10/2009

SDS No : SAC305 TT

Date Revised : 08/21/2017

Revision No : 4

## Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)

**ROUTES OF ENTRY:** Inhalation, ingestion, eye or skin contact.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name          | Wt. %  | CAS       |
|------------------------|--------|-----------|
| Tin                    | < 57.9 | 7440-31-5 |
| Silver                 | < 1.8  | 7440-22-4 |
| Copper                 | < 0.3  | 7440-50-8 |
| Monoammonium Phosphate | < 40   | 7722-76-1 |

### 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:** Immediately 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.

**INHALATION:** 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 SDS to the physician/health care professional.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, or alcohol-type foam.

**EXPLOSION HAZARDS:** Closed containers may explode when exposed to fire conditions.

# SAFETY DATA SHEET



**Date Prepared :** 12/10/2009  
**SDS No :** SAC305 TT  
**Date Revised :** 08/21/2017  
**Revision No :** 4

## Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild.

**APPEARANCE:** Powder.

**COLOR:** Metallic gray.

**FLASH POINT AND METHOD:** None

# SAFETY DATA SHEET



Date Prepared : 12/10/2009

SDS No : SAC305 TT

Date Revised : 08/21/2017

Revision No : 4

## Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)

**FLAMMABLE LIMITS:** Not Established

**AUTOIGNITION TEMPERATURE:** Not Determined

**VAPOR PRESSURE:** Not Determined

**VAPOR DENSITY:** Not Determined

**BOILING POINT:** 730°C (1346°F) (vehicle)

**MELTING POINT:** 217°C (423°F) to 219°C (426°F)

**SOLUBILITY IN WATER:** Partially Soluble

**SPECIFIC GRAVITY:** 7.4

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use and storage conditions.

**STABILITY:** Stable under ordinary 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

#### CARCINOGENICITY

**IARC:** Not listed.

**NTP:** Not listed.

**OSHA:** Not listed.

**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)**

# SAFETY DATA SHEET



**Date Prepared :** 12/10/2009  
**SDS No :** SAC305 TT  
**Date Revised :** 08/21/2017  
**Revision No :** 4

## Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)

**PROPER SHIPPING NAME:** Not regulated by DOT

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Not regulated

**CANADA TRANSPORT OF DANGEROUS GOODS**

**SHIPPING NAME:** Not regulated

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Chronic health hazard.

**313 REPORTABLE INGREDIENTS:** This product may contain one or more of the following: Lead CAS# 7439-92-1, Silver CAS# 7440-22-4, or Antimony CAS# 7440-36-0. Exact weight percentages can be determined from the product label.

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

##### 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:** The following components are known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986.": Lead CAS# 7439-92-1

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** New format

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

**PREPARED BY:** J. Saleda-Layton    **Date Revised:** 08/21/2017

**INFORMATION CONTACT:** (630) 628-8083

**REVISION SUMMARY:** This SDS replaces the 05/04/2015 SDS.

# SAFETY DATA SHEET



**Date Prepared :** 12/10/2009  
**SDS No :** SAC305 TT  
**Date Revised :** 08/21/2017  
**Revision No :** 4

**Delta® Tip Tinner (Sn96.5/Ag3.0/Cu0.5)**

## HMIS RATING

|                            |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/>            | <b>2</b> |
| <b>FLAMMABILITY</b>        | <input type="checkbox"/>            | <b>1</b> |
| <b>PHYSICAL HAZARD</b>     | <input type="checkbox"/>            | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <input checked="" type="checkbox"/> | <b>X</b> |

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# SAFETY DATA SHEET



Date Prepared : 02/05/2007

SDS No : PF608

Date Revised : 04/21/2015

Revision No : 5

## Qualitek® No Clean Paste Flux PF608

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Qualitek® No Clean Paste Flux PF608**PRODUCT DESCRIPTION:** No Clean Paste Flux**MANUFACTURER**

Qualitek International, Inc.

315 Fairbank St.

Addison, IL 60101

**Emergency Phone:** (800) 535-5053**Customer Service:** (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 CLASSIFICATIONS****Health:**

Eye Irritation, Category 2A

**GHS LABEL**Exclamation  
mark**SIGNAL WORD: WARNING****HAZARD STATEMENTS**

H319: Causes serious eye irritation.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash 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.

**Disposal:**

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

# SAFETY DATA SHEET



Date Prepared : 02/05/2007

SDS No : PF608

Date Revised : 04/21/2015

Revision No : 5

## Qualitek® No Clean Paste Flux PF608

### POTENTIAL HEALTH EFFECTS

**EYES:** Fumes from this and other soldering products may cause eye irritation.

**INGESTION:** Ingestion of this or other soldering products may cause headache, nausea, and muscular pain.

**INHALATION:** Inhalation of the fumes from this or other soldering products may cause headache, nausea and muscular pain.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name             | Wt. % | CAS        |
|---------------------------|-------|------------|
| Modified Rosin            | < 56  | 65997-05-9 |
| Glycol Ether Solvent      | < 25  | 55934-93-5 |
| Ethoxylated Oleyl Alcohol | < 13  | 9004-98-2  |
| Polyamide                 | < 6   | 25038-54-4 |

### 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:** Immediately 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 victim is conscious, give several glasses of water and keep the airway clean. Get medical attention.

**INHALATION:** Move person to fresh air. If breathing is stopped or is labored, give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be used. Get medical attention.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**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 SDS to the physician/health care professional.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical or appropriate foam. Water may be effective for cooling containers but not for extinguishing.

# SAFETY DATA SHEET



Date Prepared : 02/05/2007

SDS No : PF608

Date Revised : 04/21/2015

Revision No : 5

## Qualitek® No Clean Paste Flux PF608

**EXPLOSION HAZARDS:** Closed containers may explode when exposed to fire conditions.

**FIRE FIGHTING EQUIPMENT:** Self contained breathing apparatus and full protective turn-out gear.

### 6. ACCIDENTAL RELEASE MEASURES

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

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Store in a cool dry place away from incompatible materials. Keep away from heat, flame, sparks and other sources of ignition. Keep containers closed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust may be necessary if working with the product in enclosed areas or at elevated temperatures.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Face shield, safety glasses with side shield or chemical splash goggles.

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild.

**APPEARANCE:** Smooth amber paste.

**FLASH POINT AND METHOD:** > 116°C (240°F)

**FLAMMABLE LIMITS:** N/E

**AUTOIGNITION TEMPERATURE:** > 227°C (440°F)

**VAPOR PRESSURE:** Not Determined

**VAPOR DENSITY:** Not Determined

**BOILING POINT:** 256°C (493°F) @ 760 mmHg

**MELTING POINT:** > 100°C (212°F)

# SAFETY DATA SHEET



Date Prepared : 02/05/2007

SDS No : PF608

Date Revised : 04/21/2015

Revision No : 5

## Qualitek® No Clean Paste Flux PF608

**SOLUBILITY IN WATER:** Partially Soluble

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions carbon dioxide and carbon monoxide may be evolved.

**INCOMPATIBLE MATERIALS:** Strong acids and strong oxidizers should be avoided..

### 11. TOXICOLOGICAL INFORMATION

#### CARCINOGENICITY

**IARC:** Not listed.

**NTP:** Not listed.

**OSHA:** Not listed.

### 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

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Not regulated

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not regulated

#### CANADA TRANSPORT OF DANGEROUS GOODS

**SHIPPING NAME:** Not regulated

### 15. REGULATORY INFORMATION

**UNITED STATES**

# SAFETY DATA SHEET



Date Prepared : 02/05/2007

SDS No : PF608

Date Revised : 04/21/2015

Revision No : 5

## Qualitek® No Clean Paste Flux PF608

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Not considered a hazard.

**313 REPORTABLE INGREDIENTS:** None.

### 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

**REASON FOR ISSUE:** New format

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

**PREPARED BY:** J. Saleda-Layton    **Date Revised:** 04/21/2015

**INFORMATION CONTACT:** (630) 628-8083

**REVISION SUMMARY:** This SDS replaces the 09/19/2014 SDS.

### HMIS RATING

|                            |                          |          |
|----------------------------|--------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/> | <b>2</b> |
| <b>FLAMMABILITY</b>        | <input type="checkbox"/> | <b>1</b> |
| <b>PHYSICAL HAZARD</b>     | <input type="checkbox"/> | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <input type="checkbox"/> | <b>B</b> |

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