

# MATERIAL SAFETY DATA SHEET



Date-Issued:06/09/2004  
MSDS Ref. No:NC601-SnPb  
Date-Revised:06/09/2004  
Revision No:New MSDS

## NC601 No Clean Solder Wire - Sn63/Pb37

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NC601 No Clean Solder Wire - Sn63/Pb37  
**PRODUCT DESCRIPTION:** NC601 (No Clean Solder Wire)

#### MANUFACTURER

Qualitek International, Inc.  
315 Fairbank St.  
Addison, IL 60101  
**Product Information:** (630) 628-8083

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

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

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Tin	60.44 - 62.8	7440-31-5	231-141-8
Lead	35.3 - 37.09	7439-92-1	231-100-4

**COMMENTS:** This product contains no other hazardous ingredients in concentrations greater than 1 %, and it contains no other ingredients that are considered hazardous according to 29 CFR 1910.1200.

### 3. HAZARDS IDENTIFICATION

#### 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.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**SKIN:** Discomfort or rash.

**INHALATION:** Irritation of the pulmonary system.

**CHRONIC:** 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.

**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.

### 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.

**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

**FLASHPOINT AND METHOD:** Not Applicable

**FLAMMABLE LIMITS:** Not Established

**AUTOIGNITION TEMPERATURE:** Not Applicable

**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.

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## 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.

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## 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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Tin	TWA	NL <sup>[1]</sup>	2.00	NL	2.00	NL	NL
	STEL	NL	NL	NL	NL	NL	NL
Lead	TWA	NL	0.05	NL	0.15	NL	NL
	STEL	NL	NL	NL	NL	NL	NL

### OSHA TABLE COMMENTS:

1. NL = Not Listed

**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:** Odorless.

**APPEARANCE:** Metal in wire form.

**COLOR:** Silver gray

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

**VAPOR DENSITY:** Not Determined

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

**MELTING POINT:** 183 °C (361 °F) (alloy)

**SOLUBILITY IN WATER:** Partially Soluble

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## 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..

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## 11. TOXICOLOGICAL INFORMATION

**GENERAL COMMENTS:** No toxicological information available at this time.

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## 12. ECOLOGICAL INFORMATION

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

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## 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.

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## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

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

**CANADA TRANSPORT OF DANGEROUS GOODS**

**PROPER SHIPPING NAME:** Not regulated

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Not regulated

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Not regulated

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## 15. REGULATORY INFORMATION

**UNITED STATES**

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

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

**313 REPORTABLE INGREDIENTS:** Lead CAS# 7439-92-1 (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)**

**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.

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**16. OTHER INFORMATION**

**HMIS RATING**

<b>HEALTH:</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY:</b>		<b>0</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>		<b>X</b>

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**REVISION SUMMARY** New MSDS