

# SAFETY DATA SHEET



**Date issued :** 07/15/2004  
**SDS number :** 798 (Sn63/Pb37)  
**Date revised :** 08/03/2022  
**Revision number :** 6

## Delta® Water Soluble Solder Paste Type 798 - Sn63/Pb37

### 1. Identification

**Product identifier:** Delta® Water Soluble Solder Paste Type 798 - Sn63/Pb37

**Product description:** Water Soluble Solder Paste

**Manufacturer / Supplier**

Qualitek International, Inc.  
 315 Fairbank Street  
 Addison, IL 60101

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

**Customer Service:** (630)-628-8083

**Emergency telephone number (24 hour)**

1-800-535-5053 Infotrac

1-352-323-3500 Outside the U.S.

### 2. Hazard identification

**Classification of the substance or mixture**

**Health hazards:**

Target Organ Toxicity (Repeated exposure), Category 3

Reproductive Toxicity, Category 1

Eye Irritation, Category 2A

**Label elements**



Health  
hazard



Exclamation  
mark

**Signal word:** DANGER

**Hazard statement(s)**

H372: Causes damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H360: May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H319: Causes serious eye irritation.

H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

**Precautionary statement(s)**

**Prevention:**

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

P270: Do not eat, drink or smoke when using this product.

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P273: Avoid release to the environment.

### 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.

P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.

### Storage:

P405: Store locked up.

### Disposal:

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

### Potential health effects

**Eye:** 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

**Routes of entry:** Inhalation, ingestion, eye or skin contact.

### 3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Tin	< 55.3 - 57.5	7440-31-5
Lead	32.3 - 33.9	7439-92-1
Tetraethylene glycol dimethyl ether	< 2	143-24-8
Amines, tallow alkyl, ethoxylated	< 1.5	61791-26-2

### 4. First-aid measures

**Eye:** 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

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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.

### Most important symptoms and effects, both acute and delayed

**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

**Suitable extinguishing media:** Carbon dioxide, dry chemical, or alcohol-type foam.

**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:** 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

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### Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m <sup>3</sup>
Tin	OSHA PEL	TWA	NL ppm <sup>[1]</sup>	2.00 mg/m <sup>3</sup> <sup>[1]</sup>
		STEL	NL ppm	NL mg/m <sup>3</sup>
	ACGIH TLV	TWA	NL ppm	2.00 mg/m <sup>3</sup>
		STEL	NL ppm	NL mg/m <sup>3</sup>
	Supplier OEL	TWA	NL ppm	NL mg/m <sup>3</sup>
		STEL	NL ppm	NL mg/m <sup>3</sup>
Lead	OSHA PEL	TWA	NL ppm <sup>[1]</sup>	0.05 mg/m <sup>3</sup> <sup>[1]</sup>
		STEL	NL ppm	NL mg/m <sup>3</sup>
	ACGIH TLV	TWA	NL ppm	0.15 mg/m <sup>3</sup>
		STEL	NL ppm	NL mg/kg
	Supplier OEL	TWA	NL ppm	NL mg/m <sup>3</sup>
		STEL	NL ppm	NL mg/m <sup>3</sup>
<b>Footnotes:</b>				
1. NL = Not Listed				

**Appropriate 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.

### Individual protection measures, such as personal protective equipment

**Eye / face protection:** Face shield, safety glasses with side shield or chemical splash goggles. When working with molten material, face shield is recommended.

**Skin protection - hand protection:** Rubber, chemical resistant gloves. When material is heated, wear gloves to protect against thermal burns.

**Respiratory protection:** 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.

**Skin protection - other:** Protective clothing and safety shoes as necessary to minimize contact.

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

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**Other use precautions:** Eye wash station and quick drench safety shower in immediate work area.

### 9. Physical and chemical properties

**Appearance:** Paste  
**Color:** Metallic gray  
**Odor:** Mild  
**Melting point:** 183°C (361.4°F) (alloy)  
**Initial boiling point and boiling range:** 230°C (440°F)  
**Flash point:** 230°C COC (Cleveland Open Cup)  
**Lower explosion limit / flammability limit:** Not Established  
**Vapor pressure:** Not Determined  
**Relative vapor density:** Not Determined  
**Relative density:** 8.4 to 8.42 (water=1)  
**Solubility:** Partially Soluble  
**Auto-ignition temperature:** > 227°C (440°F)

### 10. Stability and reactivity

**Dangerous polymerization:** Will not occur under normal use and storage conditions.  
**Chemical 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:** Diethanolamine, CAS# 111-42-2; Possible Human Carcinogen (Class 2B)

**NTP:** Lead (Pb), CAS# 7439-92-1

### 12. Ecological information

**General comments:** No information on ecological toxicity or biodegradability is available at this time.

### 13. Disposal considerations

**Disposal methods:** 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

**USA Department of Transport Regulations (DOT)**

**UN proper shipping name:** Not regulated by DOT

### 15. Regulatory information

#### UNITED STATES

#### SARA Section 311/312 Hazard Categories

**311/312 Health hazards:** Chronic health hazard.

**313 reportable ingredients:** Lead CAS# 7439-92-1 (weight percentage can be determined from product label)

#### EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Lead	32.3 - 33.9	7439-92-1

#### TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Lead	7439-92-1
Amines, tallow alkyl, ethoxylated	61791-26-2

**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 "Safe Drinking Water and Toxic Enforcement Act of 1986: Lead CAS# 7439-92-1 and Diethanolamine CAS# 111-42-2.

Chemical name	% w/w	Listed
Lead	32.3 - 33.9	<ul style="list-style-type: none"> <li>● Cancer</li> <li>● Developmental Toxicity</li> <li>● Female Reproductive</li> </ul>

### 16. Other information

**Reason for issue:** Renewal date updated due to expiration.

**Approved by:** P. Han    **Title:** Technical Director

**Prepared by:** Dinesh Amin    **Date revised:** 08/03/2022

**Information contact:** (630) 628-8083

**Revision summary:** This SDS replaces the 04/24/2018 SDS. Revised: **Section 1:** Title. **Section 2:** Classification of

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### HMIS rating

Health	<input type="checkbox"/>	2
Flammability	<input type="checkbox"/>	1
Physical hazard	<input type="checkbox"/>	0
Personal protection	<input type="checkbox"/>	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.