SAFETY DATA SHEET

Date issued : 01/01/2005
SDS number : RMA200-Sn63
Date revised : 05/31/2023
Revision number : 8

Delta® RMA200 R.M.A. Solder Wire - Sn63/Pb37

1. Identification

Product identifier: Delta® RMA200 R.M.A. Solder Wire - Sn63/Pb37
Product description: Rosin Mildly Activated Solder Wire

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 2
Reproductive Toxicity, Category 1

Label elements


Exclamation mark


Health hazard


Environment

Signal word: DANGER

Hazard statement(s)

H371: May cause damage to organs (or state all organs affected, if known)(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).
H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

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.

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

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.

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	60.44 - 62.8	7440-31-5
Lead	35.3 - 37.09	7439-92-1
Rosin	< 3	65997-05-9

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 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.

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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: Alcohol-resistant foam, carbon dioxide (CO2), 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 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/m³**
Tin	**OSHA PEL**	**TWA**	NL ppm [1]	2.00 mg/m3 [1]
		STEL	NL ppm	NL mg/m3
	ACGIH TLV	**TWA**	NL ppm	2.00 mg/m3
		STEL	NL ppm	NL mg/m3
	Supplier OEL	**TWA**	NL ppm	NL mg/m3
		STEL	NL ppm	NL mg/m3
Lead	**OSHA PEL**	**TWA**	NL ppm [1]	0.05 mg/m3 [1]
		STEL	NL ppm	NL mg/m3
	ACGIH TLV	**TWA**	NL ppm	0.15 mg/m3
		STEL	NL ppm	NL mg/kg
	Supplier OEL	**TWA**	NL ppm	NL mg/m3
		STEL	NL ppm	NL mg/m3

Footnotes:
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

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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

Appearance: Metal in wire form.

Color: Silver gray

Odor: Odorless

Melting point: 183°C (361.4°F)

Initial boiling point and boiling range: 1380°C (2516°F) @ 760 mmHg

Flash point: Not Applicable

Lower explosion limit / flammability limit: Not Established

Vapor pressure: 1 mmHg at 866°C (1591°F)

Relative vapor density: Not Determined

Solubility: Partially Soluble

Auto-ignition temperature: Not Applicable

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

General comments: No toxicological information available at this time.

12. Ecological information

Other adverse effects: 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.

14. Transport information

USA Department of Transport Regulations (DOT)

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UN proper shipping name: Not regulated by DOT

ICAO / IATA - air

UN proper shipping name: Not regulated

IMO / IMDG - International

UN proper shipping name: Not regulated

Canadian Transport of Dangerouse Goods Regulations (TDG)

UN proper shipping name: Not regulated

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	35.3 - 37.09	7439-92-1

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA regulatory: As a solid in wire form, there in 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 (The Toxic Substances Control Act)

Chemical name	CAS No.
Lead	7439-92-1

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.

Chemical name	% w/w	Listed
Lead	35.3 - 37.09	• Cancer • Developmental Toxicity • Female Reproductive

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16. Other information

Reason for issue: New format

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

Prepared by: Dinesh Amin **Date revised:** 05/31/2023

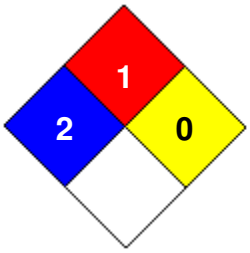
Information contact: (630) 628-8083

Revision summary: This SDS replaces the 08/18/2017 SDS. Revised: **Section 1:** Prepared by, Title. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating

Health	2
Flammability	1
Physical hazard	0
Personal protection	X

NFPA codes



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