


CIRCUIT-TEST

Safety Data Sheet

Section 1: Identification

Product name	Lead Free Solder Wire
Supplier part numbers	SR-350, SR-360, SRW-LF-080-100, SRW-LF-080-200, SRW-LF-080-500, SRW-LFS-080-100, SRW-LFS-080-200
Supplier/Manufacturer	Circuit-Test Electronics 8061 North Fraser Way, Burnaby, BC, V5J 5M8, Canada Tel: 888-919-4440 Website: www.circuittest.com
	Shenmao Technology Inc. No. 12-1 Gongye 2nd Road, Guayin Industrial area, Taoyuan City 328, Taiwan Tel: (886)3-416-0177 Fax: (886)3-416-0133 Website: www.shenmao.com

Section 2: Hazard Identification

Hazard classification	
Sensitisation Skin	Category 1 H317 May cause an allergic skin reaction
Label elements	 GHS07
Signal word	Warning
Hazard Statement	H317 May cause an allergic skin reaction
Precautionary Statements	P261 Avoid breathing dust/fumes/gas/mist/vapours/spray P280 Wear protective gloves/protective clothing/eye protection/face protection P302, P352 If on skin, wash with plenty of water. P333, P313 If skin irritation or a rash occurs, get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/ Information on Ingredients

CAS No.	Description	Weight %
7440-31-5	Tin (Sn)	90 - 99%
7440-22-4	Silver (Ag)	0 - 5%
7440-50-8	Copper (Cu)	0 - 4%
8050-09-7	Rosin	1 - 5%

Section 4: First-Aid Measures

Inhalation	P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
Skin contact	P302+P352 If on skin, wash with plenty of water.
Eye contact	P305+P351, P338, P337+P313 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	P315 Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Immediate medical attention and special treatment needed

No further relevant information available.

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Section 5: Fire Fighting Measures

Extinguishing media	In case of fire, use extinguishing media suitable for surrounding - CO2, extinguishing powder, alcohol resistant foam or water spray.
Specific hazards	In a fire, this product can release metal oxide fumes and irritating flux fumes.
Fire-fighter	Full fire-fighting gear and self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

See Section 8

Methods and materials for containment and cleaning up

Do not allow to enter sewers/surface or ground water. Dispose contaminated material as waste according to Section 13.

Section 7: Handling and Storage

Handling	Wear protective gloves, clothing and eye protection. Wash hands thoroughly after handling. Do not eat or drink or smoke when using this product. Avoid breathing fumes. Do not release to the environment.
Storage	Cool, dry and non-corrosive.

Section 8: Exposure Controls/Personal Protection

CAS 7440-31-5 (Tin) Long term value (PEL) 2mg/m³

CAS 7440-22-4 (Silver dust, fumes) Long term value (PEL) 0.01 – 0.1mg/m³

CAS 7440-50-8 (Copper dust, fumes) Long term value (PEL) 1mg/m³

(PEL Permissible Exposure Limit OSHA)

Engineering measures	Proper ventilation and exhaust system
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Personal protective equipment

Protective safety goggles, thermal resistant gloves. In case of insufficient ventilation, use suitable respiratory device.

Section 9: Physical and Chemical Properties

Appearance (physical state, color)	Solid, Silver grey
Odour	None
Odor threshold	Not available
pH	Not applicable
Melting/Freezing point	217-270°C
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Lower flammable/explosive limit	Not applicable
Upper flammable/explosive limit	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	7.3-7.4 g/cm ³
Solubility	Almost Insoluble
Partition co-efficient	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable

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Section 10: Stability and Reactivity

Reactivity	No further relevant information available
Chemical stability	Stable under normal temperature and pressure
Conditions to avoid	No further relevant information available
Incompatible materials	Strong acids, oxidizing agents

Hazardous decomposition products

Not applicable

Section 11: Toxicological Information

Effects and Symptoms through routes of exposure

Skin	Low toxicity, may cause mild irritation
Eyes	Low toxicity, may cause redness and irritation
Inhalation	May cause irritation to nose, throat, lungs, respiratory system
Ingestion	May be harmful if swallowed

Delayed and immediate effects and chronic effects from short term and long term exposure

Not available

Acute toxicity estimates	Not available
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Section 12: Ecological Information

Ecotoxicity	Not available
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility on soil	Not available
Other adverse effects	Not available

Section 13: Disposal Considerations

Do not dispose together with household garbage and do not allow in to sewage system. Disposal should be in accordance with the official regional regulations.

Section 14: Transport Information

UN Number	Not applicable
UN proper shipping name	Not applicable
Transportation hazard classification	Not restricted by IATA
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions	Not applicable

Section 15: Regulatory Information

TSCA (Toxic Substances Control Act)

All substances are TSCA listed

EPA (Environmental Protection Agency)

Section 313 CAS 7440-22-4 Silver (Ag), CAS 7440-50-8 Copper (Cu)

California Prop 65	Chemicals known to cause cancer: Nickel – this product contains less than 0.1% of a chemical known to the State of California to cause cancer.
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Domestic Substance List (DSL)

All ingredients listed on DSL

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Section 16: Other Information

The information contained herein is offered solely for information only and the above named supplier or any of its subsidiaries does not assume any liability whatsoever for the accuracy or completeness of the information. The user bears the full responsibility to verify and validate the information wherever necessary and assumes all responsibility of using and handling the product in accordance to the local and regional regulations.

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