

Section 1. Identification of the material and the supplier

Product: **Solder Wire**
 Product Code: BSRC300, BSRC050, BSAC300
 Product Use: Soldering wire
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Bromic Group**
 Address: 259 James Fletcher Drive
 Otāhuhu, Auckland 2024
 Telephone: 0508 276 642

Emergency Telephone: 0508 276 642
0800 764 766 (National Poison Centre)

Australian Supplier: Bromic Pty Ltd (ABN 88 001 648 979)
 10 Phiney Place
 Ingleburn, NSW, 2565, Australia

Tel: 1300 276 642
Australian Emergency No 13 11 26 (National Poison Centre)

Date of SDS Preparation: 4 September 2025

Section 2. Hazards Identification
Australia:

NOT classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia in its solid form.

New Zealand:

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020 in its solid form.

When melted during use the following hazards may occur:

Pictograms


Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust, fumes, gas, mist, vapours or spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Tin	>95	7440-31-5
Copper	0.1 - 5	7440-50-8
Rosin	1 - 4	8050-09-7

Section 4. First Aid Measures

If in Eyes	Rinse with plenty of water for at least 15 minutes or until irritation subsides. Seek medical attention if irritation persists.
If on Skin	Rinse with copious amounts of water. Use soap, if possible, to remove contaminants. Seek medical attention if irritation persists.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Harmful if inhaled. Suspected of causing cancer. Long term or repeated exposure may cause organ damage.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	No data available.
Suitable Extinguishing media	Water, foam, dry chemical, and carbon dioxide extinguishers.
Precautions for firefighters and	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and protective clothing.

special protective clothing	
HAZCHEM CODE	Not applicable

Section 6. Accidental Release Measures

Use personal protective equipment as detailed in Section 8. Avoid inhaling solder fumes or dust. Ventilate area. Eliminate or remove ignition sources. Avoid dust generation.

Avoid release to the environment.

Use water for cleaning. Use vacuum equipment with suitable filters to reduce dust dispersion. Collect spill material in sealed containers for disposal. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Do not breathe dust, fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective clothing as detailed in SDS Section 8.
- Prevent dust generation.

Precautions for Storage:

- Store locked up.
- Avoid high temperatures, direct sunlight and contact with oxidisers, acids and hydrogen peroxide.
- Store at temperatures below 50°C.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Tin	[7440-31-5]	-	2	-	-
Copper and its inorganic compounds,	[7440-50-8]	-	0.01(r)	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. NZ: Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15TH EDITION. AUST: Workplace Exposure Standards for Airborne Contaminants Oct 2022.

Engineering Controls

Ensure adequate mechanical exhaust ventilation.

Personal Protection Equipment



Eyes	Use safety goggles.
Hands and Skin	Wear rubber or plastic gloves. Wear protective work clothing.
Respiratory	Wear a mask. If dust or fumes exceed permissible levels, use dust- and fume-resistant respirators.

Section 9 Physical and Chemical Properties

Appearance	Solid gray-silver
Odour	Odourless
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	215~290°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Non-Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	7.4 g/cm ³
Solubility in water	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Volatile Component	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of storage and handling.
Reactivity	High-temperature operations above 500°C may emit toxic oxides.
Conditions to Avoid	Extreme high temperatures.
Incompatible Materials	Oxidizing agents, acids, hydrogen peroxide.
Hazardous Decomposition Products	High-temperature operations above 500°C may emit toxic oxides.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

Not hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Section 13. Disposal Considerations

Disposal Method:

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

Precautions and methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Section 15 Regulatory Information

Australia:

NOT classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. This product is determined as a Manufactured Article.

New Zealand:

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020. This product is determined as a Manufactured Article.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

Australia:

References:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens,

- restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
 6. American Conference of Industrial Hygienists (ACGIH).
 7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the Australian, New Zealand distributor, if further information is required.

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