



Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Date of issue 12/05/2025

Version number 1.01

Revision: 12/05/2025

1 Identification

· Product identifier

· Trade name: 4901

- Other Means of Identification: Sn99 No Clean Solder Wire
- Related Part Number: 4901, 4901-112G, 4901-227G, 4901-454G, 4901-2LB

· Application of the substance / the mixture Solder wire

· Uses advised against

Do not use brazing soldering methods such as high temperature torch soldering/torch welding.

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 800-340-0772
+(1) 905-331-1396
info@mgchemicals.com

Distributor:

Masline
511 Clinton Ave S
Rochester, New York 14620
United States
+(1) 586-546-5373

· Information department: sds@mgchemicals.com

· Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA-Call 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

2 Hazard identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements

- GHS label elements Not applicable
 - Hazard pictograms Not applicable
 - Signal word Not applicable
 - Hazard statements Not applicable

· Other hazards Not available

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3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

7440-31-5	tin	97.0% w/w
65997-06-0	Rosin, hydrogenated	2.2% w/w
7440-50-8	copper	0.5% w/w

4 First-aid measures

- **Description of first aid measures**

- **General information:** No special measures required.

- **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

- **After skin contact:**

Take off contaminated clothing and wash it before reuse.

Wash with plenty of water.

- **After eye contact:**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If symptoms persist consult doctor.

- **After swallowing:** Rinse mouth.

- **Most important symptoms and effects, both acute and delayed**

See section 11 for additional information.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture**

Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer system.

- **Hazardous combustion products:**

Carbon Oxides (COx)

Tin oxides (SnOx)

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- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Avoid breathing the fumes or vapors.
Remove or keep away all sources of extreme heat or open flames.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**

Not readily flowable.
Collect in a sealable, chemical-resistant container.
Wipe the residues with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.
- **Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**

Keep out of reach of children.
Avoid breathing fumes or vapours.
Wear protective gloves, protective clothing, and eye protection.

 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**

Keep in a dry and clean area, away from incompatible substances
 - **Information about storage in one common storage facility:** Not required
 - **Further information about storage conditions:** None.
- **Specific end use(s)** See section 1.2

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8 Exposure controls/ Personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

7440-31-5 tin	
EL (Canada)	TWA: 2 mg/m ³ metal
EV (Canada)	TWA: 2* 0.1** mg/m ³ *metal, oxide, inorg. compds.;**org. compds.: Skin
PEL (USA)	TWA: 2 mg/m ³ metal
REL (USA)	TWA: 2 mg/m ³
TLV (USA)	TWA: 2* mg/m ³ metal, *inh. particulate matter

· **Additional information:**

The lists that were valid during the creation were used as basis.
 Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **Exposure controls**

· **Appropriate engineering controls**

Soft soldering temperatures (<450 °C) are generally too low to generate significant amounts of metal vapors; however, metal oxide fumes and dust, or flux decomposition fumes can occur.
 RECOMMENDATION: For frequent or prolonged soldering processes, use of a local exhaust system to avoid exposure to thermal decomposition products. For example, use fume cabinet, a hood on a flexible arm, or tip-mounted fume extraction system on the soldering iron.
 Keep airborne concentrations below exposure limits.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Protection of hands:**



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Wear safety glasses: EN 166

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· Physical state	Solid
· Form:	Wire
· Color:	Silver grey
· Odor:	Odorless
· Odor threshold:	Not available
· Melting point/Melting range:	232 °C (449.6 °F)
· Flammability:	Non flammable
· Explosion limits:	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Auto igniting:	Not determined
· Viscosity:	
· Kinematic:	Not applicable
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Density at 20 °C (68 °F):	3.5 g/cm ³ (29.2075 lbs/gal)
· Relative density at 25 °C (77 °F):	6.5
· Bulk density:	4,000 kg/m ³
· Vapor density (air=1):	Not applicable
· Particle characteristics	Not determined

· **Other information**

· **Important information on protection of health and environment, and on safety.**

· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Organic solvents:	Not available
· VOC content:	0.000 %

10 Stability and reactivity

- **Reactivity** Tin may react violently in presence of disulfur dichloride and iodine bromide.
- **Chemical stability** Chemically stable at normal temperatures and pressures.

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- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Extreme temperatures above 450 °C [842 °F], such as those due to welding.
- **Incompatible materials:** Oxidizing agents
- **Hazardous decomposition products:** Hazardous combustion products: see section 5.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
7440-31-5 tin		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4.75 mg/L (rat)
7440-50-8 copper		
Oral	LD50	>5,000 mg/kg (mouse)
Inhalative	LC50/4 h	>5.11 mg/L (rat)

- **Sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure**
 Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure**
 Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of effects and symptoms by route of exposure**
 - **Eyes:**
 redness
 may cause mild irritation
 - **Skin:** redness, may cause mild irritation
 - **Inhalation:** overexposure to dust or metal fumes may lead to pneumoconiosis or stansosis
 - **Swallowed:** none known or expected
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
 No further relevant informtion available.
- **Additional toxicological information:**
 The product is not subject to classification according to internally approved calculation methods for preparations:

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
· NTP (National Toxicology Program)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
 - **Recommendation:**
 Containers may still present a chemical hazard/ danger when empty.
 Dispose of contents in accordance with all local, regional, national, and international regulations.
 Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 Transport information

· UN-Number	
· DOT/TDG, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT/TDG, IMDG, IATA	not regulated

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· Transport hazard class(es)	
· DOT/TDG, IMDG, IATA	
· Class	not regulated
· Packing group	
· DOT/TDG, IMDG, IATA	Not applicable
· Environmental hazards:	Not applicable
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· Special precautions for user	Not applicable
· UN "Model Regulation":	not regulated

*** 15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **OSHA Hazard Communication Standard (29 CFR Part 1900)**

The safety data sheet and label comply with HCS 2024.

· **Hazardous Products Act (R.S.C., 1985, c. H-3)**

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7440-50-8 | copper

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

· Carcinogenic categories
· TLV (Threshold Limit Value)
None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

· Canadian substance listings:
· Canadian Domestic Substances List (DSL)
All ingredients are listed.

· Canadian Non-Domestic Substances List (NDSL)
None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)
7440-31-5 tin

· HMIS-ratings (scale 0 - 4)

Health = 1
Fire = 0
Reactivity = 0

· Europe

· RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

· WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

· Per- and polyfluoroalkyl substances (PFAS)
None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
- **Version number of previous version:** 1.00
- **Date of preparation** 12/05/2025

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· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety

· *** Data compared to the previous version altered.**

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