

Material Safety Data Sheet

Revision D	ate Prepared by	Technical Information
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Section 1: Product Identification

MSDS Code: 4901

Name: Lead Free Solder

Related Part Numbers: 4901-112G, 4901-227G, 4901-454G, 4901-2LB

Use: Soldering

Section 2: Hazardous Ingredients					
CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
7440-50-8	Copper	0.5-0.9	0.2 mg/m ³	0.20 mg/m ³	N/e
7440-31-5	Tin	94-99	2.00 mg/m ³	2.00 mg/m ³	N/e

Section 3: Hazards Identification

WHMIS Codes:	: n/a				
NFPA Ratings:	Health 1	Flammability	0	Reactivity	0
HMIS Ratings:	Health 1	Flammability	0	Reactivity	0
Eyes:	Fumes ma	y cause eye irrita	ation.		
Skin:	Fumes ma	y cause skin irrit	ation		
Inhalation:	Inhalation of the fumes from this or other soldering products may cause headache, nausea, and muscular pain.				
Ingestion:	Ingestion of muscular p		n this	s or other so	Idering products may cause headache, nausea, and
Chronic:	5	or repeated expo on and abdomina		5	stion may cause anemia, insomnia, weakness,

Section 4: First Aid Measure

- **Eyes:** 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.
- Inhalation: If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.
- Ingestion: If person is conscious, immediately give 2 glasses of water. Do not induce vomiting. Get immediate medical attention.

Section 5: Fire Fighting Measures



Autoignition Temperature:	N/a	Flash Point: N/a	LEL / UEL: N/e
Extinguishing Media:	Alcohol foar	n, carbon dioxide, or dry chemical	
General Information:	Closed cont	ainers may explode when exposed to fire	e conditions.

Section 6: Accidental Release Measures

Spill Procedure: If the material is in its solid state, pick up and reuse. When molten, allow to solidify, and the reuse if it is not contaminated. If contaminated, refer to section 13 for disposal information.

Section 7: Handling and Storage

- Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.
- **Storage:** Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

 Routes of entry:
 Eyes, ingestion, inhalation, and skin.

 Ventilation:
 Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

 Personal Protection:
 Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section	9: Physic	cal and Chemic	al Properties			
Physical State:	Solid	Odor: None	Solubility: Partially	Evaporation N/e Rate:		
Boiling Point:	1380°C	Specific 5.9 – Gravity: 7.0	Vapor 1mmHg Pressure: @866°C	Vapor Density: N/e	pH:	N/a

Section 10: Stability and Reactivity

Stability:	Stable under ordinary use and storage conditions.
Incompatibilities:	Strong acids and strong oxidizers should be avoided
Polymerization:	Will not occur under normal use and storage conditions.
Decomposition:	May emit fumes of carbon monoxide and carbon dioxide.

Section 11: Toxicological Information

Lethal Exposure Concentrations:	Ingestion (LD50):	N/e	Inhalation N/e (LC50):	Skin N/e (LD50):
Mutangenicity: (risk of inheritable genetic effects)		No		
Reproductive Toxicity: (risk of sterility)				
Teratogenicity: (risk of malformation in an unborn fetus)				
Carcinogenicity: (risk of cancer)				
Sensitization: (effects of repeated exposure)				



Section 12: Ecological Information

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

Environmental Impact Data: (percentage by weight)

CFC: 0	HFC : 0	CI.Solv: 0	VOC: 0	HCFC: 0	ODP : 0
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Section 13: Disposal Information

General	Dispose of this material, contaminated absorbent material and other contaminated materials in an
Information:	approved waste disposal facility, according to all applicable Federal, Sate / Provincial, and Local
	regulations. Recovery and reuse, rather than disposal, should be the ultimate goal in handling
	efforts.

Section 14: Transportation Information

Ground:

Non-regulated

Air:

Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations. UN Number: None UN Pack Group: Not applicable UN Class: Non Hazardous ICAO/IATA: Non Hazardous Shipping Name: Non Hazardous

Sea:

Non-regulated

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

Reportable ingredients: Silver CAS# 7440-22-4, Copper CAS# 7440-50-8

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed or exempt from listing.

CAA (Clean Air Act, USA)

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA) 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.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.



Section 15: Regulatory Information Cont....

Industry and Science Canada

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

RoHS (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

Section 16: Other Information

Definitions: N/a = not applicable, n/e = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.