

# Material Safety Data Sheet

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| <b>Revision Date</b><br>November 9, 2010                       | <b>Prepared by</b><br>Patti Rogers | <b>Technical Information</b><br>1-800-201-8822 or <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a> |
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## Section 1: Product Identification

**MSDS Code: 4890-4898**      **Name: Leaded Solder Sn 60 Pb 40**  
**Related Part Numbers: 4890-18G, 4894-227G; 4894-454G; 4895-227G; 4895-454G; 4896-227G; 4896-454G; 4897-227G; 4897-454G; 4898-227G; 4898-454G**

Use: Soldering

## Section 2: Hazardous Ingredients

| CAS#      | Chemical Name | Percentage by weight | ACGIH TWA              | Osha Pel               | Osha Stel |
|-----------|---------------|----------------------|------------------------|------------------------|-----------|
| 7439-92-1 | Lead          | 38.5-39.1            | 0.15 mg/m <sup>3</sup> | 0.05 mg/m <sup>3</sup> | N/E       |
| 7440-31-5 | Tin           | 58.2-39.1            | 2.00 mg/m <sup>3</sup> | 2.00 mg/m <sup>3</sup> | N/E       |

## Section 3: Hazards Identification

**Eyes:** Fumes may cause eye irritation.  
**Skin:** Fumes may cause skin irritation.  
**Inhalation:** Inhalation of the fumes from this or other soldering products may cause headache, nausea, and muscular pain.  
**Ingestion:** Ingestion of the fumes from this or other soldering products may cause headache, nausea, and muscular pain.  
**Chronic:** Prolonged or repeated exposure due to ingestion may cause anemia, insomnia, weakness, constipation and abdominal pain.

## Section 4: First Aid Measure

**Eyes:** Flush well with running water to remove particulate.  
**Skin:** Wash thoroughly with soap and water. If molten solder comes in contact with skin, cool with water.  
**Inhalation:** Remove victim 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:** N/A  
**General Information:** None

## 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: Physical and Chemical Properties

|                        |               |                          |  |                             |              |                          |     |                |
|------------------------|---------------|--------------------------|--|-----------------------------|--------------|--------------------------|-----|----------------|
| <b>Physical State:</b> | Solid         | <b>Odor:</b>             | None   | <b>Solubility in water:</b> | Slight       | <b>Evaporation Rate:</b> | N/E |                |
| <b>Boiling Point:</b>  | 1380°C/2516°F | <b>Specific Gravity:</b> | Water=1@25°C<br>Varies according to Composition. | <b>Vapor Pressure:</b>      | 1mmHg @866°C | <b>Vapor Density:</b>    | N/E | <b>pH:</b> N/A |

## Section 10: Stability and Reactivity

**Stability:** Stable under ordinary use and storage conditions.

**Incompatibilities:** Strong acids and strong oxidizers.

**Polymerization:** Will not occur under normal use and storage conditions.

**Decomposition:** If melted or cut, may release metal dust or fumes

## Section 11: Toxicological Information

**Sensitization:** (effects of repeated exposure) No

**Carcinogenicity:** (risk of cancer) Lead: IARC-2B-Possibly carcinogenicity to humans.

**Teratogenicity:** (risk of malformation in an unborn fetus) No

**Reproductive Toxicity:** (risk of sterility) The CCOHS lists Lead as being reproductively toxic.

| <b>Lethal Exposure Concentrations:</b> | <b>Ingestion (LD50):</b> | <b>Inhalation (LC50):</b> | <b>Skin (LD50):</b> | <b>Inhalation (TCLo):</b>                   |
|--|--------------------------|---------------------------|---------------------|---|
| Lead                                   | N/A                      | N/A                       | N/A                 | 20 mg/m <sup>3</sup> /6H/30D (intermittent) |
| Tin                                    | N/A                      | N/A                       | N/A                 | N/A   |

**Mutagenicity:** (risk of inheritable genetic effects) No

## Section 12: Ecological Information

**General Information:** Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage

Volatile Organic Compounds, % by weight: N/A

Volatile Organic Compounds, grams per litre: N/A

### Section 13: Disposal Information

**General Information:** Dispose of this material, contaminated absorbent material and other contaminated materials in an approved waste disposal facility, according to all applicable Federal, State / 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:**  
 Non-regulated  
**Sea:**  
 Non-regulated

### Section 15: Regulatory Information

#### CANADA

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.

#### **DSL**

All ingredients in this product are listed on the Domestic Substances List

#### **Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling regulations.

#### **Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance.

#### **WHMIS**

This product belongs to the following categories: **N/A**

#### USA

##### **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.

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

This product contains Lead (CAS# 7439-92-1) a toxic chemical subject to the reporting requirements of section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372

##### **EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains the following chemical subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372: Lead (CAS# 7439-92-1)

##### **TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

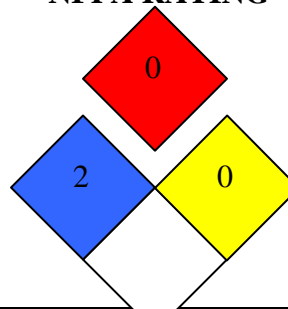
##### **California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains Lead a chemical known to the state to cause reproductive toxicity and cancer.

### HMIS RATING

|                             |   |
|-----------------------------|---|
| <b>HEALTH:</b>              | 2 |
| <b>FLAMMABILITY:</b>        | 0 |
| <b>PHYSICAL HAZARD:</b>     | 0 |
| <b>PERSONAL PROTECTION:</b> |   |

### NFPA RATING





## **EUROPE**

### **RoHS**

This product contains Lead, therefore does not comply with European RoHS regulations.

### **WEEE**

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

## **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.