

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 4870-4877 **Name: No Clean Leaded Solder Sn60 Pb40**
Related Part Numbers: 4870-18G, 4875-227G, 4875-454G, 4876-227G, 4877-227G
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 ³	0.05 mg/m ³	N/E
7440-31-5	Tin	58.2-59.8	2.00 mg/m ³	2.00 mg/m ³	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: **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 foam, carbon dioxide, or dry chemical
General Information: Closed containers may explode when exposed to fire 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: Do not store or use near sparks or open flames. Keep containers tightly closed and upright when not in use in order to prevent leakage.

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

Physical State:	Solid	Odor:	None	Solubility in water:	Slight	Evaporation Rate:	N/E	
Boiling Point:	1380°C/ 2516°F	Specific Gravity:	Water=1@25°C Varies according to Composition.	Vapor Pressure:	1mmHg @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 toxic fumes of carbon monoxide and carbon dioxide.

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.

Mutagenicity: (risk of inheritable genetic effects) No.

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

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:
 Not-regulated
Air:
 Not-regulated
Sea:
 Not-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 39.1 %(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 39.1 %(CAS# 7439-92-1)

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

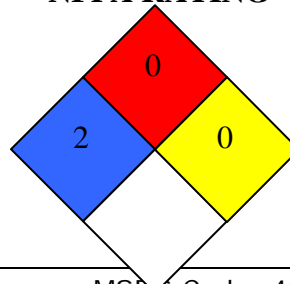
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

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

HMIS RATING

HEALTH:	2
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

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.