

SN63PB37 NO CLEAN SOLDER PASTE

4860P

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** Sn63Pb37 No Clean Solder Paste

**SDS Code:** 4860P

**Related Part #** 4860P-35G, 4860P-250G, 4860P-500G

### Recommended Use and Restriction on Use

**Use:** Solder paste

**Uses Advised Against:** Brazing (high temperature torch soldering/torch welding)

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

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**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents) USA or CANADA—Call CHEMTREC at **+1-800-424-9300**



**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

**SN63PB37 NO CLEAN SOLDER PASTE**
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**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Specific Target Organ Toxicity Repeated Exposure	1	Danger	Health
Reproductive Toxicity	1	Danger	Health
Carcinogenicity	2	Warning	Health
Eye Irritation	2A	Warning	Exclamation
Hazardous to the Aquatic Environment Chronic	1	Warning	Environment
Lactation Effect	additional	none	none


*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H372: Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure H360: May damage fertility or the unborn child H351: Suspected of causing cancer
	H319: Causes serious eye irritation

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<b>Pictograms</b>	<b>Hazard Statements</b>
	H410: Very toxic to aquatic life with long lasting effects
<i>No symbol</i>	H362: May cause harm to breast-fed children
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapors/fumes.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/protective clothing.
P270	Do not eat, drink or smoke when using this product.
P263	Avoid contact during pregnancy and while nursing.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention/advice.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect Spillage
<b>Storage</b>	<b>Precautionary Statements</b>
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

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**Hazards Not Otherwise Classified**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
7440-31-5	tin (powder)	55-55.9%
7439-92-1	lead (powder)	32.1-33.0%
143-22-6	2-(2-(2-butoxyethoxy)ethoxy)ethanol	<2%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>irritation, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical advice/attention.
<b>IF INHALED</b>	P304 + P340, P308 + P313
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track (in extreme exposure cases: metallic taste, nausea, vomiting, and muscle cramps)</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  If exposed or concerned: Get medical advice/attention.
<b>IF ON SKIN</b>	P302 + P352, P362 + P364, P332 + P313
<b>Immediate Symptoms</b>	<i>low toxicity: mild irritation</i>
<b>Response</b>	Wash with plenty of water. Take off contaminated clothing and wash it before reuse.  If skin irritation occurs: Get medical advice/attention.

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<b>IF SWALLOWED</b>	P301 + P330 + P331, P308 + P313
<b>Immediate Symptoms</b>	<i>abdominal pain, nausea, headaches, vomiting, metallic taste, and muscle cramps</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting. If feeling unwell or concerned: Get medical advice/attention.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use extinguish media suitable for surrounding. In presence of molten metal, do NOT use water on fires.
<b>Specific Hazards</b>	Not flammable or combustible, but burns if involved in a fire. In a fire, this product can release metal oxide fumes and irritation flux fumes.  Toxic for aquatic environment: Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces CO and CO <sub>2</sub> , oxides (SnO <sub>x</sub> ), lead oxides (PbO <sub>x</sub> ).
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection equipment in Section 8.
<b>Precautions for Response</b>	Do not breathe vapors/fumes.
<b>Environmental Precautions</b>	Avoid release to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.
<b>Containment Methods</b>	None required—this product is not readily flowable.
<b>Cleaning Methods</b>	Collect paste in a sealable waste container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.
<b>Disposal</b>	Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**

<b>Prevention</b>	<p>Keep out of reach of children.</p> <p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p> <p>To prevent the formation of exposure to lead vapors, do not use soldering methods that exceed a 450 °C.</p> <p>Do not breathe fumes/vapors.</p> <p>Do not eat, drink, or smoke when using this product.</p>
<b>Handling</b>	<p>Avoid release to the environment. Collect spillage.</p> <p>Wear protective gloves/clothing/eye protection.</p> <p>Wash hands thoroughly after handling.</p>
<b>Storage</b>	<p>Store in a well-ventilated and dry area. Keep cool.</p> <p>Store locked up.</p>

**Section 8: Exposure Controls/Personal Protection**

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
tin	ACGIH	2 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	2 mg/m <sup>3</sup>	Not established
	Canada AB	2 mg/m <sup>3</sup>	Not established
	Canada BC	2 mg/m <sup>3</sup>	Not established
	Canada ON	2 mg/m <sup>3</sup>	Not established
	Canada QC	2 mg/m <sup>3</sup>	Not established
lead	ACGIH	0.05 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	0.05 mg/m <sup>3</sup>	Not established
	Canada AB	0.05 mg/m <sup>3</sup>	Not established
	Canada BC	0.05 mg/m <sup>3</sup>	Not established
	Canada ON	0.05 mg/m <sup>3</sup>	Not established
	Canada QC	0.15 mg/m <sup>3</sup>	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

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**SN63PB37 NO CLEAN SOLDER PASTE****4860P****Engineering Controls****Ventilation**

Keep airborne concentrations below exposure limits.

Soft soldering temperatures (<450 °C) are generally too low to generate significant amounts of metal vapors, but dust, metal oxide, 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. Reflow oven are typically vented outside or use a specially designed filtered recirculation system.

**Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

**Skin Protection**

Use of protective gloves chemically resistant gloves.

**Respiratory Protection**

If exposed to vapors or dust above the exposure limit, a suitable wear respirator meeting local/regional/national guidelines.

Generally, for emergencies and exposure above 0.5 mg/m<sup>3</sup>, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.

**RECOMMENDATION:** Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Solid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Paste, Metallic Grey	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	Not available
<b>Freezing/Melting Point <sup>a)</sup></b>	≥98.3 °C [209 °F]	<b>Solubility in Water <sup>c)</sup></b>	Slightly soluble flux mixture
<b>Boiling Point <sup>a)</sup></b>	≥300 °C [≥572 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point <sup>b)</sup></b>	98.3 °C [209 °F]	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @40 °C</b>	>20.5 mm <sup>2</sup> /s

a) Lowest literature value for organic solvent component

b) Based on organic solvent component

c) Metal components are sparingly soluble



**SN63PB37 NO CLEAN SOLDER PASTE****4860P****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Tin may react violently in presence of disulfur dichloride and iodine bromide.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Extreme temperatures above 450 °C, such as those due to welding.
<b>Incompatibilities</b>	Oxidizing agents, strong acids
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	Low toxicity: may cause skin irritation.
<b>Inhalation</b>	May cause coughing and irritation of the respiratory track.  Overexposure to dust or metal fumes may lead to pneumoconiosis (or Stannosis), anemia, and central nervous system effects.
<b>Ingestion</b>	May cause abdominal pain, headache, nausea, vomiting or muscular pain (see chronic effects).
<b>Chronic</b>	Prolonged and repeated exposure to lead may cause hematological effects, high blood pressure, and adverse central and peripheral nervous systems effects. Symptoms of lead poisoning include metallic taste, colic, nausea, vomiting, and muscle cramps.  Prolonged and repeated exposure to tin may lead to stannosis, a benign non-fibrotic pneumoconiosis caused by exposure to tin oxides.  Ingestion or inhalation have fertility, developmental, and lactation effects.

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**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
tin	>2 000 mg/kg Rat	>2 000 mg/kg Rabbit	4.75 mg/m <sup>3</sup> Rat 4 h
lead	>2 000 mg/kg Rat	>2 000 mg/kg Rat	5.05 mg/m <sup>3</sup> Rat 4 h
2-(2-(2-butoxyethoxy)ethoxy)ethanol	3 540 mg/kg Rat	2 505 mg/kg Rabbit	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation. Metal powder is mechanically abrasive.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	<p>Carcinogen based on animal studies and North American guidelines and regulation.</p> <p><b>Lead [CAS# 7439-92-1]</b></p> <p>IARC (Supl. 7, 1987) Group 2B: Possibly carcinogenic to humans</p> <p>ACGIH A3: Confirmed animal carcinogen with unknown relevance to human</p> <p>CA Prop 65: Listed as a carcinogen</p> <p>NTP (2011 Report): Reasonably anticipated to be a human carcinogen</p>
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Lead is believed to decrease fertility in males and females.

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<b>Teratogenicity</b> (risk of fetus malformation)	Lead present a reproductive and developmental hazard based on epidemiological and animal studies.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Epidemiological and animal studies confirmed neurodevelopmental, neurodegenerative, peripheral nervous system, haematological, cardiovascular, kidney and renal effects.
<b>Aspiration hazard</b>	Not applicable. This product doesn't contain any Cat 1 ingredients and has a viscosity >20 mm <sup>2</sup> /s.

**Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Contains particles of lead of less than a 1 mm but more than 100 nm (larger than nanoparticles), which release ionic lead levels that is very toxic to the environment. While massive lead is insoluble in water, their powders is considered sufficiently soluble to give rise to an ecological hazard by EU regulators. The classification that follows takes into account to chronic aqueous toxicity of category 1 (M-factor chronic = 1 for lead) of the EU.

Based on available data for tin and 2-(2-(2-butoxyethoxy)ethoxy)ethanol, the GHS aqueous toxicity classification criteria are not met.

**Acute Ecotoxicity**

Category 1

Very toxic to aquatic life.

**Chronic Ecotoxicity**

Category 1

Very toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

**Biodegradability**

Non biodegradable.

**Other Effects**

Not available

**SN63PB37 NO CLEAN SOLDER PASTE****4860P****Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

**Section 14: Transport Information****Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes under 450 kg

**NOT REGULATED** in TDG  
per Special Provisions 99 (2)

Sizes 5 kg and under

**NOT REGULATED** in 49 CFR  
per exception 171.4 (c)(2)

*FOR REFERENCE ONLY*

**UN number:** UN3077

**Shipping Name:** ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(lead)

**Class:** 9

**Packing Group:** III

**Marine Pollutant:** Yes

**Special Provision 99 (2):** These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

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**SN63PB37 No CLEAN SOLDER PASTE****4860P****Air****Refer to ICAO-IATA regulations.**

Sizes 5 kg and under: Cat. No. 4860P-35G, 4860P-250G, 4860P-500G

**NOT REGULATED**On the air waybill, write  
"Not Restricted, as per Special  
Provisions A197"**Special Provision A197:** These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.**Sea****Refer to IMDG regulations.**

Sizes 5 kg and under: Cat. No. 4860P-35G, 4860P-250G, 4860P-500G

**NOT REGULATED**

per 2.10.2.7

**2.10.2.7:** Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.**Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

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

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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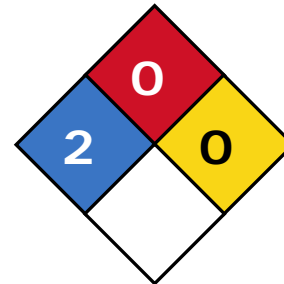
**USA**

**Other Classifications**

**HMIS® RATING**

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

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**CAA (Clean Air Act, USA)**

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

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

This product contains lead (CAS# 7439-92-1; reportable quantity = 10 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

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

All substances are TSCA listed.

**California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).**

This product contains lead, which is listed as a carcinogen and a reproductive toxicant.

**Europe**

**RoHS (Restriction of Hazardous Substances Directive)**

This product contains lead and is therefore subject to restricted uses with respect to the RoHS directive.

It does not contain any 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.

**SN63PB37 NO CLEAN SOLDER PASTE****4860P****Section 16: Other Information**

**SDS Prepared by** Michel Hachey  
**Date of Revision** 09 September 2017  
**Supersedes** 12 April 2017  
**Reason for Changes:** Change to the product name.

**Reference**

- 1) ACGIH 2017 TLVs and BEIs: *Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices*, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

**Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists (USA)  
EC50 Half maximal effective concentration  
EL50 Half maximal effective loading  
NOELR No observable effect loading ratio  
GHS Globally Harmonized System of Classification of Labeling of Chemicals  
LC50 Lethal Concentration 50%  
LCLo Lowest published lethal concentration  
LD50 Lethal Dose 50%  
PEL Permissible Exposure Limit  
STEL Short-Term Exposure Limit  
TCLo Lowest published toxic concentration  
TWA Time Weighted Average  
VOC Volatile Organic Content

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**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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