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## Safety Data Sheet

### **SECTION 1. IDENTIFICATION**

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**Product Name:** Tin / Lead Solder Product Group – applies to 50/50 tin lead solder, 30/70 tin lead solder, 40/60 tin lead solder and 60/40 tin lead solder.

**Product Use:** Alloys for soldering and other metallurgical processes.

**Supplier:** Canada Metal Pacific Ltd.

**Address:** 7733 Progress Way, Delta, BC Canada V4G 4A3

**Phone:** 604-940-2010

**Fax:** 604-952-2650

### **SECTION 2. HAZARD IDENTIFICATION**

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**Classification:** Acute toxicity (oral, inhalation)

**Carcinogenicity – Category 2**

**Reproductive Toxicity – Category 1A**

**Specific Target Organ Toxicity Chronic Exposure – Category 1**

**Label Symbol: Health Hazard**



**Label Signal Word: DANGER**

**Label Hazard Statement:**

**Inhalation or ingestion of lead may result in headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia and leg, arm, and joint pain. Prolonged exposure may also cause central nervous system damage, hypertension, gastrointestinal disturbances, anemia, kidney dysfunction and possible reproductive effects.**

**Pregnant women should be protected from excessive exposure in order to prevent lead crossing the placental barrier and causing infant neurological disorders.**

**Label Precautionary Statement:**

**Do not handle until all safety precautions have been read and understood.**

**Obtain special instructions before use. Store locked up.**

**Do not breathe dust or fume.**

**Wear protective gloves and eye/face protection.**

**Wash hands thoroughly after handling.**

**Do not eat, drink, or smoke when using this product.**

**If exposed or concerned or if you feel unwell, get medical advice/attention.**

**Dispose of contents and container in accordance with applicable regulations.**

**The acute toxicities of 100% of the product's ingredients are unknown.**

**SCBA and full protective clothing are required for fire emergency response personnel.**

**WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.**

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Chemical Name</b>	<b>CAS No.</b>	<b>Concentration</b>
Tin	7440-31-5	5.00 - 95.00%
Lead	7439-92-1	5.00 - 95.00%
Antimony	7440-36-0	0.10 – 1.80%

### **SECTION 4. FIRST-AID MEASURES**

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**Inhalation:** Smoke during soldering may cause headache and breathing difficulty in some cases. Move exposed individual to fresh air or administer oxygen. Seek medical advice if discomfort and irritation persist. Perform artificial respiration if breathing has stopped.

**Eye Contact:** Eye irritant. Immediately flush eye with cool clean water for 15 - 20 minutes. Molten metal may splash into eye and cause severe burns. If eye irritation persists, seek immediate treatment from a physician.

**Ingestion:** If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical assistance. Ingestion of significant quantities can cause diarrhea, nausea, insomnia, vomiting, abdominal pain, muscle pain, headache, soreness, loss of appetite. Seek medical aid or call poison control.

**Skin Contact:** Wash well with water and soap.

**Effects of Acute Exposure:** Elevated blood-lead levels.

**Effects of Chronic Exposure:** Lead intoxication.

### **SECTION 5. FIRE-FIGHTING MEASURES**

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**To extinguish:** This product is non-flammable and non-explosive. If present in a fire, use dry chemical. Use self-contained breathing apparatus. May release toxic metal and oxide fumes. For serious fires, call the fire department immediately.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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**Steps to be taken in Case Material is Released or Spilled:** Collect in appropriate container. Clean up spillage so as to minimize dispersion of dust. Either wet sweeping or vacuuming using HPA filtration is recommended.

Wash hands and arms well after clean-up is completed.

Respiratory Protection: Use appropriate NIOSH approved respirators especially in unventilated and small enclosed areas.

## **SECTION 7. HANDLING AND STORAGE**

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Precautions for Safe Handling: Wash hands and arms well after handling. Adequate ventilation and respiratory protection should be provided when handling dross from solder bath.

Eye: Safety glasses must be worn.

Gloves: May use any protective gloves.

Hygiene: Wash hands after handling.

Storage: Store in a cool, dry, well ventilated area. Store in a closed corrosive resistant container with corrosive resistant liner.

Also, control in the area any strong oxidizing agents and other chemicals.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Normally does not need to be controlled.

### **Control Parameters**

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Tin	2.0 mg/m <sup>3</sup>	N/A	2.0 mg/m <sup>3</sup>	N/A
Lead	0.05 mg/m <sup>3</sup>	N/A	0.05 mg/m <sup>3</sup>	N/A
Antimony	2.0 mg/m <sup>3</sup>	N/A	0.50 mg/m <sup>3</sup>	N/A

Notes: Above is the USA occupational Safety and Health Administration Standard. Based on 8 Hr/Day x 5 Day/Week will be considered long term exposure.

Appropriate Engineering Controls: Local exhaust ventilation may be needed to control fume.

## **Individual Protection Measures**

**Eye:** Safety glasses must be worn. Face shield if molten.

**Gloves:** May use any protective gloves.

**Use heat resistant leggings and gloves if pouring molten metal.**

**Respiratory Protection:** Not required under normal conditions. Use appropriate NIOSH approved respirators especially in unventilated and small enclosed areas and if using the product for more than 4 hours a day or 20 hours a week.

**Hygiene:** Wash hands after handling.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance:** metallic silver

**Form:** bar, ingot, wire

**Odour:** None

**Melting Point:** 183 - 216 degrees celsius

**Initial Boiling Point:** Pb 1620 degrees celsius

**Flash Point:** Not Pertinent

**Auto-ignition Temperature:** Not Pertinent

**Flammability:** Not Pertinent

**Relative Density (water = 1):** 7.30 – 11.30

**Solubility in Water:** insoluble

## **SECTION 10. STABILITY AND REACTIVITY**

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**Chemical Stability: Stable**

<b>Reactive Subject</b>	<b>Chemical Reaction</b>
Liquid	No
Heat	No
Acid or Base	No
Strong Oxidizing Agent	Yes
Alkaline Compound	No

**Conditions to Avoid:** Control in the area any strong oxidizing agents and heat.

**Incompatible Materials:** strong oxidisers, halogens, inorganic and organic peroxides, copper nitrate, chlorine trifluoride, bromine trifluoride, nitric acid, sulfur, ammonium nitrate, azides, carbides, potassium permanganate, zirconium.

**Hazardous Decomposition Products:** May release toxic metal and oxide fumes when heated to high temperatures.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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**Likely Routes of Exposure**

Inhalation    Skin contact    Eye contact    Ingestion

**Acute Toxicity:** Inhalation of fume may cause headache and breathing difficulty in some cases. Inhalation may also cause irritation and damage to the respiratory tract.

**Oral:** Antimony 100 mg/kg   LD50 Rat

**Skin Corrosion / Irritation:** No

**Serious Eye Damage / Irritation:** Eye contact may cause local eye irritation.

**STOT (Specific Target Organ Toxicity) - Single Exposure:** No

**Aspiration Hazard:** Inhalation of fume may cause irritation and damage to the respiratory tract.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure:** Ingestion may irritate the gastrointestinal tract. May also cause nausea and vomiting.

**Delayed effects from long term exposure:** Chronic exposure by inhalation and / or ingestion may aggravate pre-existing diseases of the liver, kidneys, gastrointestinal system, nervous system, blood forming organs and male reproductive systems.

**Respiratory and/or Skin Sensitization:** No

**Carcinogenicity:** Lead is suspected of causing cancer. May cause damage to organs through prolonged use.

**Reproductive Toxicity:** Lead is readily transported across the human placental membrane and can induce toxic effects such as reduced periods of gestation and impaired neurological development in offspring.

**Development of Offspring:** No

**Sexual Function and Fertility:** No

**Effects on or via Lactation:** No

**Germ Cell Mutagenicity:** No

**Interactive Effects:** No

## **SECTION 12. ECOLOGICAL INFORMATION**

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**Ecotoxicity:** no data

**Persistence and Degradability:** no data

**Bioaccumulative Potential:** no data

**Mobility in Soil:** no data

**Other Adverse Effects:** no data

## **SECTION 13. DISPOSAL CONSIDERATION**

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**Waste Disposal Method: Do not dispose of into municipal garbage, landfill sites, sewers, or any body of water.**

**Return to manufacturer, scrap dealer, or secondary lead smelter.**

**Consult federal state / provincial and local regulations regarding the proper disposal of waste material.**

## **SECTION 14. TRANSPORT INFORMATION**

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**Material is not considered hazardous for transportation.**

## **SECTION 15. REGULATORY INFORMATION**

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**WHMIS Classification            D-2A**

## **SECTION 16. OTHER INFORMATION**

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**Disclaimer: The Safety Data Sheet must be used and followed according to the corresponding actions stated above. All information is given in good faith as authoritative and valid as known to the Company, but because new information may be available, the Company cannot guarantee all relevant information is contained.**

**The Safety Data Sheet is based on normal usage and actions regarding the subject material. During specialized, unusual or new form of usage, execute further safety measures as necessary prior to handling.**

**The use of the product in non-conformance with this Safety Data Sheet, or in combination with any other product or process is the responsibility of the user.**

**Date of Latest Revision: March 30, 2017**