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## Safety Data Sheet

### **SECTION 1. IDENTIFICATION**

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**Product Name: 95/5 Solder**

**Chemical Family: Tin Based Alloy**

**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: Not classified.**

**Dangerous Nature: Not classified.**

**Hazardous Nature: Harmful to aquatic life with long lasting effects.**

### **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	94.50 - 95.50%
Antimony	7440-36-0	4.50 – 5.50%

### **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. Seek medical advice if discomfort and irritation persist.

**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:** Can cause diarrhea, nausea, vomiting, abdominal pain, headache, soreness, loss of appetite. Seek medical aid or call poison control.

**Skin Contact:** Possible skin irritations. Wash affected area well with water and soap.

**Effects of Acute Exposure:** See "Ingestion Effects" and "Inhalation Effects".

**Effects of Chronic Exposure:** Possible skin dermatitis and nasal inflammation.

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

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**To extinguish:** Use dry chemical, foam, sand or carbon dioxide. Use self-sustaining respiratory suit. 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. Wash hands and arms well after clean-up is completed. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

**Prevent entry into waterways, sewers and confined areas.**

**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 used.

**Eye:** Safety glasses must be worn.

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

**Hygiene:** Wash hands with soap 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 acids and oxidizing agents and other chemicals.

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

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### **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
Antimony	0.50 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:** Avoid prolonged exposure. 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.

Heat resistant leggings and gloves if pouring molten metal.

**Respiratory Protection:** Use an appropriate fume/dust respirator if ambient levels approach the exposure limits. Appropriate NIOSH approved respirators especially in unventilated and small enclosed areas.

**Hygiene:** Wash hands with soap after handling.

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

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**Appearance:** solid silver

**Form:** bar, ingot, wire

**Odour:** None

**Melting Point:** 280 degrees celsius

**Flash Point:** Not Pertinent

**Auto-ignition Temperature:** Not Pertinent

**Flammability:** Not Pertinent

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

**Solubility in Water:** Not soluble.

## **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	Yes
Strong Oxidizing Agent	Yes
Alkaline Compound	No

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

**Incompatible Materials:** Oxidisers, Acids

**Hazardous Decomposition Products: Toxic metal oxide fumes will form at high temperature.**

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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### **Likely Routes of Exposure**

X Inhalation       Skin contact    X Eye contact    X Ingestion

**Acute Toxicity: Inhalation of fume may cause headache and breathing difficulty in some cases.**

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

**Skin Corrosion / Irritation: Prolonged skin contact may cause temporary irritation.**

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

**STOT (Specific Target Organ Toxicity) - Single Exposure: Not classified.**

**Aspiration Hazard: Inhalation of fume may cause irritation.**

**STOT (Specific Target Organ Toxicity) - Repeated Exposure: Not classified.**

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

**Carcinogenicity: This product is not considered to be a carcinogen.**

**Reproductive Toxicity: No**

**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:** Harmful to aquatic life with long lasting effects.

**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: February 17, 2017**