CANADA METAL (PACIFIC) LTD.

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Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Name: Solder Paste CMC No. 50

Chemical Formula: N/A

Supplier: Canada Metal Pacific Ltd.

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

Phone: 604-940-2010

Fax: 604-952-2650

Product Use: Product is used as a temporary adhesive by holding components until the soldering process melts the solder.

SECTION 2. HAZARD IDENTIFICATION

Classification: WHMIS Classification D-1B, E

Dangerous Nature: Corrosive Liquid. Do not handle until all safety precautions outlined in this document is understood.

Hazardous Nature: Highly Toxic. If ingested, can cause constipation, digestion disorder, nausea and vomiting. Seek medical aid immediately and call poison control

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Max Concentration
Petrolatum		90.00%
Zinc Chloride	7646-85-7	25.00%
Diethylene Glycol	111-46-6	10.00%
Ammonium Chloride	12125-02-9	10.00%
Water		10.00%
Hydrochloric Acid	7647-01-0	5.00%
Stannous Chloride	7772-99-8	5.00%
Wetting Agent		5.00%

SECTION 4. FIRST-AID MEASURES

Inhalation: Irritation and possible damage to mucous membranes. Concentrations are toxic. 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. If eye irritation persists, seek immediate treatment from a physician.

Ingestion: Highly toxic. Constipation, disordered disgestion, nausea and vomitting. Remove from exposure and seek medical aid or call poison control.

Skin Contact: May result in ulceration of hands, fingers and arms. Wash well with water and soap.

Effects of Acute Exposure: Nausea, vomiting, and irritation of mucous membranes.

SECTION 5. FIRE-FIGHTING MEASURES

In creamy state, the substance is unlikely to burn but particles created during the soldering process may burn under high temperature.

To extinguish: Use water, dry chemical or CO2. For serious fires, call the fire department immediately.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is Released or Spilled: Shovel up and collect in waterproof container. Spill area should be treated same way as a grease spill.

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

Control Equipment: Use local Exhaust. Remove smoke vapours from breathing area.

Mechanical (General): Mechanical ventilation recommended.

Environmental Precautions: Do not dispose of into municipal garbage, landfill sites, sewers, or any body of water. Return to manufacturer.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep containers closed when not in use. Keep dry.

Eye: Safety glasses must be worn.

Gloves: Use plastic or rubber gloves.

Hygiene: Wash hands after handling.

Storage: Store in a cool, dry, well ventilated area. Also, control in the area any strong oxidizing agents and other chemicals.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Zinc Chloride	1.0 mg/m3	N/A	1.0 mg/m3	N/A
Diethylene Glycol	50ppm	N/A	50ppm	N/A
Ammonium Chloride	10.0 mg/m3	N/A	10.0 mg/m3	N/A
Hydrochloric Acid	7.0 mg/m3	N/A	7.0 mg/m3	N/A
Stannous Chloride	2.0 mg/m3	N/A	2.0 mg/m3	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.

Gloves: Use plastic or rubber gloves.

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

Hygiene: Wash hands after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Creamy paste

Odour: None

Melting Point: Unknown

Initial Boiling Point: Unknown

Flash Point: Not Pertinent

Auto-ignition Temperature: Not Pertinent

Flammability: Not Pertinent

Relative Density (water = 1): 1.09

Solubility in Water: 25% (approximate)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Reactive Subject	Chemical Reaction
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.**

Incompatible Materials: Oxidisers

Hazardous Decomposition Products: Hydrogen chloride gas, zinc/zinc oxides, carbon oxides (CO, CO2).

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

X Inhalation **X** Skin contact **X** Eye contact **X** Ingestion

Acute Toxicity: Nausea, vomiting, and irritation of mucous membranes. Inhalation of fume may cause headache and breathing difficulty in some cases. Inhalation may also cause irritation and damage to the respiratory tract.

Oral: 350 mg/kg LD50 Rat

Skin Corrosion / Irritation: Yes

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

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

Aspiration Hazard: Irritation and possible damage to mucous membranes. Concentrations are toxic.

STOT (Specific Target Organ Toxicity) - Repeated Exposure: Ingestion may irritate the gastrointestinal tract.

Respiratory and/or Skin Sensitization: Irritation and possible damage to mucous membranes. Concentrations are toxic.

Carcinogenicity: No

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

Ecotoxicity: no data

Persistence and Degradability: no data

Bioaccumulative Potential: no data

Mobility in Soil: no data

Other Adverse Effects: Shovel up and collect in waterproof container. Spill area should be treated same way as a grease spill.

SECTION 13. DISPOSAL CONSIDERATION

Incineration or return to manufacturer. Product must not be disposed together with household garbage. Do not allow product to reach the sewage system or open water. Consult federal state / provincial and local regulations regarding the proper disposal of waste material.

SECTION 14. TRANSPORT INFORMATION

Material is not considered hazardous for transportation.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification	D-1B, E	TDG Information	
		Shipping name:	Corrosive Liquid
		UN Number:	UN 1760
		Class/Division:	Class 8
		Packing Group	III

SECTION 16. OTHER INFORMATION

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: January 12, 2017