

# CANADA MÉTAL

(EST) LTÉE  
(EASTERN) LTD.

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

Trade Names and Synonyms	Cerrolow 117, Fusible Alloy
Chemical Names and Synonyms	
Chemical Family	Bismuth Based Alloy

### SECTION II - INGREDIENTS

Ingredient	C.A.S. Number	% W/W		Exposure Limit	LD50 oral, rat
		Min	Max		
Bismuth	7440-69-9	44.20	45.20	no data	500 mg/kg
Lead	7439-92-1	22.35	22.85	0.05 mg/m3	790 mg/kg
Indium	7440-74-6	19.00	19.20	0.1 mg/m3	4200 mg/kg
Tin	7440-31-5	8.05	8.55	2.0 mg/m3	72 mg/kg (mouse)
Cadmium	7440-43-9	5.15	5.45	0.01 mg/m3	225 mg/kg

### SECTION III - PHYSICAL DATA

Boiling Point ( deg C )	NP	Spec Gravity	9.39
Vapour Pressure ( mm Hg )	NP	% Volatile (by volume )	NP
Vapour Density ( Air=1 )	NP		
Solubility in Water	Nil	Evaporation Rate ( Ether = 1 )	NP
Appearance	Metallic Silver	pH	NP
Odour	None	Melting Point ( deg C )	47.2
Form	Solid		

WHMIS Classification	D1-B	TDG Information	
NP - Not Pertinent: U - Unknown:		Shipping Name:	Not Regulated
		UN Number:	NP
		Class / Division:	NP
		Packing Group:	NP

### SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point ( deg C ) and Method	Flammable Limits in Air ( Vol % )	
DUST MAY GENERATE A FIRE	Upper:	NP
	Lower:	NP
Means of Extinction:	Class D - Dry Chemical, or Dry Sand	

### SECTION V - HEALTH HAZARD AND FIRST AID DATA

Ingestion	EFFECTS: Diarrhea, nausea, vomiting, abdominal pain, headaches, muscle soreness, loss of appetite.
	FIRST AID: Seek medical aid.
Eye Contact	EFFECTS: Molten metal may splash into eye.
	FIRST AID: Flush with large amounts of water for 15 minutes and seek medical aid.
Skin Contact	EFFECTS: Not a recognized hazard.
	FIRST AID: If dust or mist gets on skin, wash skin with soap and water. Remove clothing and launder.
Skin Absorption	NP
Inhalation	Dryness of throat, cough, pain in chest,fume fever, nausea, headaches, metallic taste, loss of appetite.
Effects of Acute Exposure	Diarrhea, nausea, salivation,abdominal pain,headaches, vomiting, lead encephalopathy.
Effects of Chronic Exposure	Muscle soreness, loss of appetite, metallic taste, abdominal cramps.
Carcinogenicity: IARC ( No )	
Mutagenicity: No	Teratogenicity: No
Reproductive Effects: No	

### SECTION V I - REACTIVITY DATA

Stability:		Stable - Yes	Conditions to Avoid:		NP
Incompatible Materials	Water:	No	Acid: No	Oxidizers:	Yes
	Corrosive:	No	Alkali: No	Reducers:	No
	Other:	No			
Hazardous Decomposition Products:		NP			
Hazardous	May Occur -	NO	Conditions to Avoid:		
Polymerization:	May not Occur -	X	NP		



## SECTION VII - PREVENTIVE MEASURES

Steps to be Taken in Case Material is Released or Spilled:		If spill of dust use clean-up methods which avoid dust generation. Use water and wetsweep or vacuum.	
Waste Disposal Method:		Dispose of in accordance with appropriate federal and local regulations.	
Respiratory Protection:		When engineering controls are not feasible to control over exposure, use appropriate NIOSH approved respirators.	
Engineering Controls	Local Exhaust:	Essential to keep worker exposure with-in allowable limits during welding or grinding.	Special:
	Mechanical ( General ):		Other:
Protective Gloves:	As needed to protect against physical hazards.	Eye Protection:	Safety glasses, goggles, face shield if molten.
Other Protective Equipment:		Heat resistant leggings and gloves if pouring molten metal.	

## SECTION VIII - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:	The scrap metal itself presents no health hazard unless it is welded, burned, ground or cut. Possible fumes may be generated. Should have complete evaluation done. Wash hands, arms, and hair after handling.
Special Precautions and Waste Disposal Methods:	Return to manufacturer, scrap dealer, or dispose of according to local regulations.

## SECTION IX - PREPARATION INFORMATION

Prepared By: Health, Safety and Environmental Department

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