HDBAY

Material Safety Data Sheet

24 Hour Emergency Number: 1(204)687-2291

General Inquiries: 1(204)687-2691

WHMIS	Protective Clothing	TDG Road/Rail
Not A Controlled Product		TDG: Not Regulated IATA: Not Regulated

Section I. Product Identification and Uses		
Product Name(s)	Zinc Metal - Special High Grade (Pure Grades)	
Chemical Name	Zinc Metal - Special High Grade (Pure Grades)	
Supplier	Hudson Bay Mining and Smelting Co., Limited P.O. Box 1500, Flin Flon, MB, R8A 1N9	
Material Uses	Steel Galvanizing, Alloying	
Synonyms	SHG	

Name	CAS#	%	TLV (mg/m³)
			Not Available For Mixture
1) Zinc Metal	7440-66-6	99.95-99.99	2
2) Lead Metal	7439-92-1	0.001-0.003	0.05
3) Iron Metal	7439-89-6	0-0.003	1
4) Copper Metal	7440-50-8	0-0.002	1
5) Cadmium Metal	7440-43-9	0-0.003	0.01
6) Aluminum Metal	7429-90-5	0-0.002	1
LD ₅₀ (Species/route)			LC ₅₀ (Species)
Not Available For Mixture		Not Available For Mixture	

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Section III. Physical Data				
Physical state	Solid	Specific Gravity	7.13	
and appearance /	Odourless blue-	TO 100 TO		
Odour	white metal			
рН	Not Applicable	Vapour Density	Not Applicable	
Odour Threshold	None	Vapour Pressure	1 mm Hg @	
			487 °C	
Percent Volatile	Unknown	Water/oil dist. Coeff.	Not Available	
Freezing Point °C	Not Applicable	Evaporation rate	Not Applicable	
Boiling Point °C	907	Solubility	Unknown	

Section IV. Fire and Explosion Data		
Flash Point	Not Applicable	
Flammable limits	Bulk metal is not flammable, however dust or powder form may be flammable or explosive when mixed with air.	
Auto-ignition temperature	Not Applicable	
Sensitive to Mechanical impact	None	
Sensitive to Static Discharge	None	
Fire extinguishing procedures	Do not use water on molten material. Use dry chemical suitable for metal fires.	
LEL/UEL	Not Applicable/Not Applicable	
Special Procedures	Use caution when immersing solid zinc into a molten zinc bath. Moisture/condensation can cause molten zinc to bubble, splash, or explode. Fire fighters should be equipped with NIOSH self contained breathing apparatus	

Section V. Reactivity Data	
Stability	Stable
Hazardous decomp. Products	None
Incompatibility	Acids, Alkalies, and Halogens
Reaction Products	Hydrogen gas

Section VI. Toxicological Properties				
Routes of Entry	Eye, Inhalation, Ingestion			
Effects of Acute Exposure	Eye contact with fume or dust may cause local eye irritation. Inhalation of fume may cause zinc fume fever resulting in flu-like symptoms.			
Effects of Chronic Overexposure	May cause gastrointestinal disturbances.			
Mutagenicity	Unknown	Teratogenicity	Unknown	
Carcinogenicity	See Additional info	Sensitisation	Unknown	

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Section VI. Toxicological Properties			
Synergistic Material	None Known	Reproductive Toxicity	Lead
Irritancy	Slight		

Section VII. Pr	Section VII. Preventive Measures		
Protective Clothing in case of spill and leak	Wear gloves and clothing to protect against physical hazard or hot metal splash. Goggles or face-shield with molten metal. If Ventilation is inadequate, a NIOSH approved respirator.		
Spill and leak	Contain and put in leak proof containers. Shovel rather than sweep to avoid dusting conditions.		
Waste disposal	Check with federal, Provincial, and Local government regulations		
Storage	Store closed containers in a well ventilated area. Protect from physical damage.		
Engineering Controls	Local exhaust ventilation may be needed to control fume/dust blow the recommended exposure limit.		
Handling Procedures	Exposure to this material can be controlled in many ways. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Use this general information to help develop specific control measures. Avoid contact with skin, eyes or clothing. Avoid breathing dust and/or vapour/mist.		

Section VIII.	First Aid measures
Eye Contact	Treat as foreign body. Immediately flush with water. Seek medical attention
Skin Contact	Wash with soap and water
Inhalation	Remove to fresh air. Apply artificial respiration if victim not breathing and seek medical attention
Ingestion	Rare in industry. Seek medical attention

Section IX.	Preparation Information		
Prepared by	ndustrial Hygiene	Validated:	2012-03-15
Telephone #	(204) 687-2691		
Additional Information	LEAD: IARC reports tat the "evidence for carci IARC reports the "evidence for carcinogenicity clothes are contaminated, remove and launder	to humans" is "limited". Practice	quate". CADMIUM: e good hygiene. If
Sources Used	ACGIH. Threshold Limit Values 2011		
While the company believes the data set forth herein are accurate as of the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.			

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