

Ritchey Metals Company • 30 Georgetown Road • Hendersonville, PA 15339

MATERIAL SAFETY DATA SHEET

Special High Grade Zin	nc		
Identification and Use			
Chemical Name	Zinc		
Trade Name	SHG		
Chemical Formula	Zn		
Manufacturer			
Mailing Address	P.O. Box I, 30 Geo	Ritchey Metals Company, Inc. P.O. Box I, 30 Georgetown Road Hendersonville, PA 15339	
Contact Numbers:		Phone: (724) 745-7700 Fax: (724) 745-8040	
Hazardous Ingredients of I	<u>Material</u>		OVERAL TO A SECOND SECO
		OSHA PEL	CAS
Zinc	(99.995% typical)	5.0 mg/m³-Fume	7440-66-6
		15.0 mg/m³-Dust	
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Physical Data for Material

Means of Extinction

Appearance	Solid
Odor and Appearance	No Odor – Silvery Grey Color
Odor Threshold(p.p.m)	None
Specific Gravity	7.1
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Evaporation Rate	Not Applicable
Solubility in Water	Insoluble
% Volatile (by volume)	Not Applicable
Boiling Point	907°C
Freezing Point	420°C
рН	Not Applicable
Density (g/ml)	Not Available
Coefficient of water/oil distribution	Not Applicable
Fire and Explosion Hazard of Mate	erial
Flash Point (°C) and Method	Not Applicable
Flammability	Metal ingot not flammable, Dust or Powder may be flammable or explosive.
Lower Explosive Limit	Not Applicable
Upper Explosive Limit	Not Applicable
Auto Ignition Temp.	Not Applicable

special powder.

Do not use water or foam. Use dry chemical, sand or

Special Procedures	Self contained respirators should be worn when fighting fires.
TDG Flammability Classification	Not Applicable
Hazardous Combustion Products	Zinc Oxide Fume
Sensitivity to Chemical Impact	None
Rate of Burning	None
Explosive Power	None
Sensitivity to Static Discharge	Yes, as dust or powder.
Reactivity Data	
Stability	Metal in Ingot form is stable.
Incompatibility	Sulfur, Halogens and strong Oxidixing agents, mineral acids and bases.
Reactivity	Acids and Alkalis will generate hydrogen gas. Accumulated hydrogen gas is flammable and explosive.
Hazardous Decomposition Products	Heating of this product may generate zinc oxide fumes. Generally over 900°C.
Toxicological Properties of Produc	
Acute	Contact of zinc fume or dust may cause local irritation to the eyes. Inhalation of freshly generated zinc fume may cause zinc fume fever resulting in flulike symptoms.
Chronic	Special High Grade Zinc is relatively non toxic and has no history of causing chronic effects.
Routes of Entry	Eye contact, inhalation and ingestion.
LD ₅₀ of Product (Specify Species and Route)	Not Available

Irritancy of Product	No reports found	
Exposure limits of Product	Not Available	
LD ₅₀ of Product (Specify Species)	Not Available	
Sensitization to Product	No reports found	
Synergistic Materials	No reports found	
Carginogencity, Reproductive effects, Teratogencity, Mutagenicity	Does not meet WHMIS criteria for these effects.	
Preventative Measures		
Precautions in Handling and Storage	Keep dust levels low. Keep in dry, cool, well ventilated area away from heat.	
Personal Protective Equipment	If fume or dust is generated, use an approved fume/dust respirator and eye protection.	
Gloves (Specify)	Heat Resistant	
Respiratory (Specify)	Approved Respirator	
Eye (Specify)	With molten metal use glasses or face shield.	
Footwear (Specify)	Safety Boots	
Clothing (Specify)	Suitable to protect hot metal splash	
Other (Specify)	Avoid use of contact lenses in dusty areas	
Engineering Controls (e.g. ventilation, enclosed process, specify)	Local ventilation when fume is generated.	
Leak and Spill Procedure	Collect spilled material and return to process or supplier.	
Waste Disposal	As above for spilled material.	
Handling Procedures and Equipment	Only dry metal should be added to molten bath	
Storage Requirements	Store in dry covered area. Do not store near acids.	

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Prepared by

responsibility for the accuracy or completeness of the data contained herein.

Ritchey Metals Company

March 1999.

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