

LTS Research Laboratories, Inc. Safety Data Sheet Zinc metal

1. Product and Company Identification		
Trade Name:	Zinc	
Chemical Formula:	Zn	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	LTS Research Laboratories, Inc.	
Street:	37 Ramland Road	
City:	Orangeburg	
State:	New York	
Zip Code:	10962	
Country:	USA	
Tel #:	855-587-2436 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Danger	
	NY NY	
Hazard Statements:	H250: Catches fire spontaneously if exposed to air	
	H260: In contact with water releases flammable gases which may ignite	
	spontaneously	
	H410: Very toxic to aquatic life with long lasting effects	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No	
· · · · · · · · · · · · · · · · · · ·	smoking	
	P222: Do not allow contact with air	
	P223: Keep away from any possible contact with water, because of	
	violent reaction and possible flash fire	
	P231+P232: Handle under inert gas. Protect from moisture	
	P273: Avoid release to the environment	
	P280: Wear protective gloves/protective clothing/eye protection/face	
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	protection	
	protection P335+P334: Brush off loose particles from skin. Immerse in cool	
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HMIS Health Ratings (0-4): Health: Flammability: Physical:	 protection P335+P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages P370+P378: In case of fire: Use CO₂, sand, extinguishing powder for extinction P391: Collect spillage P402+P404: Store in a dry place. Store in a closed container P403+P233: Store in a well-ventilated place. Keep container tightly closed P422: Store contents under inert gas P501: Dispose of contents/container in accordance with local/regional/national/international regulations Powder Bulk 	

3. Composition		
Chemical Family:	Metal	
Additional Names:	None	
Zinc (Zn):		
Percentage:	100 wt.%	
CAS #:	7440-66-6	
EC #:	231-175-3	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
E.	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Do not use water for metal fires $-$ use CO ₂ , sand, extinguishing powder	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Dalassad/Spillad	Ween engranziate requiretery and protective equipment engelfied in	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide	
	ventilation. Vacuum up spill using a high efficiency particulate	
	absolute (HEPA) air filter and place in a closed container for disposal.	
	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry	
2	inert gas. Store apart from materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before	
	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
	threshold limit.	

0. EX	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a
I III J	backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Protective Gloves:	
	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
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9.1	Physical and Chemical Characteristics
Color	Blue Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Contact with water releases flammable gases
Boiling Point:	907 °C
Melting Point:	419.5 °C
Flash Point:	N/A
Autoignition Temperature:	460 °C
Density:	7.14 g/cc
Molecular weight:	65.39 g/mol
	Receptor
	10. Reactivity tories, Inc.
Stability:	Stable under recommended storage conditions
Reacts with:	In contact with water releases flammable gases which may ignite
	Spontaneously, Strong oxidizing agents, Strong acids, Strong bases,
	Amines
Incompatible Conditions:	Air, Water/moisture, Acids, Bases, Oxidizing agents
Hazardous Decomposition Products:	Zinc oxide fume, Hydrogen
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	•
Chronic:	May cause irritation N/A
Chrome.	
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	LD50 Oral- 630 mg/kg for rat by mouth
Carcinogen:	EPA-I: Data are inadequate for an assessment of human carcinogenic
č	potential.
	12. Ecological Information
Aquatic Toxicity:	Very toxic to aquatic life with long lasting effects
Persistent Bioaccumulation Toxicity:	No

Very Persistent, Very Bioaccumulative: Notes:	No Very toxic for aquatic organism. May cause long lasting harmful effect on aquatic life. Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach any water sources. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Avoid transfer into the environment.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
Hazard Class: Secondary class: Packing Group: UN Number: Proper Shipping Name:	 4.3 Substances which, in contact with water, emit flammable gases. 4.2 Spontaneously combustible II (1-50 microns), III (50-1000 microns) UN1436 Zinc dust 15. Regulatory Information Inc. 	
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A Yes	
	16. Other Information	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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08/28/2023