

## LTS Research Laboratories, Inc. Safety Data Sheet Nickel Zirconium

1. Product and Company Identification		
Trade Name:	Nickel Zirconium	
Chemical Formula:	NiZr	
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	
Hazard Statements:		
Hazard Statements:	H317: May cause an allergic skin reaction.	
Hazard Statements:	H351: Suspected of causing cancer.	
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3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Nickel (Ni):		
Percentage:	0-100 wt%	
CAS #:	7440-02-0	
EC #:	231-111-4	
Zirconium (Zr):		
Percentage:	0-100 wt%	
CAS #:	7440-67-7	
EC #:	231-176-9	
	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	
	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	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
Extinguishing Media.	surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spee. The Fighting Floeedure.	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
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:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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. Provide sufficient ventilation to maintain concentration at or below	
Ventilation:		

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	1 mg/m <sup>3</sup> as Ni, long-term value	
Threshold Limit Value:	$0.2 \text{ mg/m}^3$ as Ni, long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Oxidizing agents	
Incompatible Conditions:	None None Nonetories. Inc.	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	<ul> <li>IARC-2B: Possibly carcinogenic to humans: limited evidence in human in the absence of sufficient evidence in experimental animals.</li> <li>NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from epidemiologic studies.</li> <li>ACGIH A5: Not suspected as a human carcinogen: Not suspected as a human carcinogen on the basis of properly conducted epidemiologic studies in humans. Studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dost, and adequate statistical powe to conclude that exposure to the agent does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data.</li> </ul>	

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No
	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.

Document Last Revised:

07/14/2024