

LTS Research Laboratories, Inc. Safety Data Sheet Zirconium Tungsten Oxide

]	1. Product and Company Identification
Trade Name:	Zirconium Tungsten Oxide
Chemical Formula:	$Zr(WO_4)_2$
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:	None
Hazard Statements:	None
	San San
Precautionary Statements:	None
	Research
HMIS Health Ratings (0-4):	Vinkoratorias, inc.
Health:	
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Zirconium Tungstate
Zirconium Tungstate (Zr(WO ₄) ₂):	
Percentage:	0-100 wt%
CAS #:	16853-74-0
EC #:	240-876-3
	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.
In a set is me	Keep patient warm. Seek medical advice.
Ingestion:	Seek medical treatment Wash affected area with mild seen and water Demous any
Skin:	Wash affected area with mild soap and water. Remove any
Even	contaminated clothing. Seek medical advice
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Consult

	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. 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 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: Work/Hygienic Maintenance:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before
Ventilation:	eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below
	threshold limit Research
8.	Exposure 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 backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government
	standards
Protective Gloves:	Rubber gloves
Eye Protection:	Check gloves prior to each use Safety glasses with side shields/ NIOSH (US) or EN 166(EU)
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
	9. Physical and Chemical Characteristics
Color	White
Form:	Powder, Pieces, Granules, Sputtering Targets, etc.
Odor:	N/A
Water Solubility: Boiling Point:	Insoluble N/A
Boiling Point:	
Melting Point.	N/A
Melting Point: Flash Point:	N/A N/A
Flash Point:	N/A N/A N/A
	N/A

10. Reactivity	
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Tungsten oxides, Zirconium oxide, Metal oxide fumes
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/Å
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Avoid transfer into the environment
	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
	N/A
UN Number:	N/A
UN Number: Proper Shipping Name:	IN/A
	15. Regulatory Information
Proper Shipping Name:	15. Regulatory Information

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:

06/06/2017

