

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

1. Product and Company Identification

Trade Name: Zirconium Titanium Oxide

Chemical Formula: ZrTiO_x

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: N/A

Precautionary Statements: N/A

HMIS Health Ratings (0-4):

Health: Flammability: Physical:

3. Composition

Chemical Family: Ceramic Additional Names: N/A

Zirconium titanium oxide (ZrTiO_x):

Percentage: 100 wt% CAS #: N/A EC #: N/A

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

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Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Keep patient warm. Seek medical advice.

Ingestion: Seek medical treatment

Skin: Wash affected area with mild soap and water. Remove any

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

doctor

5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions. Use fire-fighting measures that suit the surrounding fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection 5 mg/m³ as Zr, long-term value Permissible Exposure Limits: Threshold Limit Value: 5 mg/m³ as Zr, long-term value 10 mg/m³ as Zr, short-term value Special Equipment: Respiratory Protection: Dust Respirator when high concentrations are present Protective Gloves: Rubber gloves Check gloves prior to each use 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 White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Odor: Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: Not determined Flash Point: N/A Autoignition Temperature: N/A Density: N/A

N/A

Molecular weight:

10. Reactivity	
Stability:	Stable under recommended storage conditions
Reacts With:	No information known
Incompatible Conditions:	None
Hazardous Decomposition Products:	None known
	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:	N/A
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	N/A N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A Research
	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.

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