

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

1. Product and Company Identification

Trade Name: Cesium Tungsten Oxide

Chemical Formula: CsWO₃

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> Street: 37 Ramland Road City: Orangeburg State: New York 10962 Zip Code: Country: **USA**

Tel #: 855-587-2436 / 845-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

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: Flammability: Physical:

3. Composition

Chemical Family: Ceramic

Additional Names: Cesium Tunsgten Bronze, Cs_{0.32}WO₃

0

0

CsWO₃:

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

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None **Important Symptoms:** None

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

Rinse mouth with water, if the victim is conscious. Seek Medical

Attention.

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

contaminated clothing.

Flush eyes with water, blinking often for several minutes. Remove Eyes:

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures Flammability: Non-flammable. Capable of creating a dust explosion. Extinguishing Media: Use water spray. Do not use CO₂, dry chemical powder, or polymer foam. 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. The dust may cause irritation. Ventilation: 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:** Respiratory Protection: Self-contained breathing apparatus Protective Gloves: Chemical-resistant gloves Eve Protection: Safety glasses. Avoid contact with eyes. Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color Black, Dark Blue Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 24.8 °C Flash Point: N/A Autoignition Temperature: N/A

N/A

N/A

Density:

Molecular weight:

10. Reactivity						
Stability: Stable under recommended storage conditions						
Reacts With:	Strong Oxidizing agents					
Incompatible Conditions:	N/A					
Hazardous Decomposition Products:	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/A					
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:	No					
Very Persistent, Very Bioaccumulative:	No					
Notes:	N/A Research					
	13. Disposal Considerations					
Dissolve or mix the material with a combu afterburner and scrubber.	astible solvent and burn in a chemical incinerator, equipped with an					
	14. Transportation Data					
Hazardous:	Not hazardous for transportation.					
Hazard Class:	N/A					
Packing Group:	N/A					
UN Number:	N/A					
Proper Shipping Name:						

15. Regulatory Information

No N/A

Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:

N/A			

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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