

## LTS Research Laboratories, Inc. Safety Data Sheet Cesium sulfate

# 1. Product and Company Identification

Trade Name: Cesium sulfate

Chemical Formula: Cs<sub>2</sub>SO<sub>4</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> Street: 37 Ramland Road City: Orangeburg New York State: 10962 Zip Code: 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: Not a hazardous substance or mixture.

**Hazard Statements:** N/A **Precautionary Statements:** N/A

HMIS Health Ratings (0-4):

Health:

Flammability:

Physical:

### 3. Composition

Chemical Family: Ceramic

Additional Names: Dicesium sulfate

Cesium sulfate (Cs<sub>2</sub>SO<sub>4</sub>):

Percentage: 100 wt% CAS #: 10294-54-9 EC #: 233-662-6

### 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.

Keep patient warm. Seek immediate medical attention.

Ingestion: Seek immediate medical attention.

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

contaminated clothing. Seek immediate medical attention.

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

contact lenses if present and easy to do. Continue rinsing. Seek

immediate medical attention.

5. Firefighting Measures		
Non-flammable		
No special restrictions – use suitable extinguishing agent for 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		
Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. 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.		
Isolate runoff to prevent environmental pollution.		
7. Handling and Storage		
Handle under dry protective glass. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store away from oxidizing agents, water/moisture, reducing agents. Store under dry iner gas. This product is hygroscopic. Protect from humidity and water.		
Store apart from materials and conditions listed in section 10.  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 threshold limit.		
Exposure Controls and Personal Protection		
N/A N/A		
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Dust Respirator		
Nitrile rubber gloves with minimum thickness of 0.11 mm		
Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long		
sleeves/pants.		
9. Physical and Chemical Characteristics		
White		
Wille		
Powder		
Powder N/A 1,820 g/l – Soluble		
Powder N/A $1,820 \text{ g/l} - \text{Soluble}$ N/A		
Powder N/A 1,820 g/l – Soluble N/A 1,010 °C		
Powder N/A 1,820 g/l – Soluble N/A 1,010 °C N/A		
Powder N/A 1,820 g/l – Soluble N/A 1,010 °C		

10. Reactivity	
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, reducing agents, water/moisture
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, cesium/cesium oxides, sulfur oxides
	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:	2,830 mg/kg for rat by mouth
Carcinogen:	IARC: No component of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed human
	carcinogen by IARC.
	ACGIH: No component of this product present at levels greater than o
	equal to 0.1% is identified as a carcinogen or potential carcinogen by
	ACGIH.
	NTP: No component of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen by
	NTP. C. Research
	OSHA: No component of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential carcinogen by
	OSHA.
	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
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No N/A
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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