

LTS Research Laboratories, Inc. Safety Data Sheet Beryllium Sulfate Tetrahydrate

1. Product and Company Identification

Trade Name: Beryllium Sulfate Tetrahydrate

Chemical Formula: BeSO₄.4H₂O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy City: Belmont

City: Belmont
State: North Carolina

Zip Code: 28012 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:

H301: Toxic if swallowed

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H330: Fatal if inhaled

H335: May cause respiratory irritation H350: May cause cancer by inhalation

H372: Causes damage to organs through prolonged or repeated

exposure

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and

understood

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
P264: Wash face, hands, and any exposed skin thoroughly after

P264: Wash face, hands, and any exposed skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area

P272: Contaminated work clothing must not be allowed out of the

workplace

P273: Avoid release to the environment

P280: Wear protective gloves/ protective clothing/ eye protection/ face

Protection

P281: Use personal protective equipment as required

P284: Wear respiratory protection

P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON

CENTER/ doctor. Rinse mouth

P302 + P352: IF ON SKIN: Wash with plenty of soap and water

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P308 + P313: IF exposed or concerned: Get medical advice/ attention P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention

P337 + P313: If eye irritation persists: Get medical advice/ attention P362: Take off contaminated clothing and wash before reuse

P391: Collect spillage

P403 + P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 4
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Ceramic, Sulfate CS CONTROL None None

Beryllium Sulfate Tetrahydrate (BeSO₄.4H₂O):

Percentage: 100 wt% CAS #: 7787-56-6 EC #: 236-842-2

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

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

Seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical

attention.

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

contaminated clothing. Seek medical attention.

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

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

attention.

5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide 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 0.0002 mg/m³ as BeSO₄.4H₂O, long-term value Permissible Exposure Limits: Threshold Limit Value: 0.00005 mg/m³ as BeSO₄.4H₂O, long-term value None Special Equipment: Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Check gloves prior to each use Eve Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: 550 - 600 °C

Flash Point: N/A
Autoignition Temperature: N/A

Density: 1.713 g/cm³ Molecular weight: 177.14 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: N/A
Hazardous Decomposition Products: N/A

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: May cause an allergic skin reaction

Ingestion: Toxic if swallowed Inhalation: Fatal if inhaled

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: LD50 Oral- 82 mg/kg for rat by mouth

Carcinogen: May cause cancer by inhalation

IARC: 1 - Group 1: Carcinogenic to humans (Beryllium sulphate

tetrahydrate)

NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

OSHA: No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens ACGIH: (American Conference of Governmental Industrial

Hygienists): A1 - Known Human Carcinogen

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1
Packing Group: II
UN Number: UN1566

Proper Shipping Name: Beryllium compounds, n.o.s. (Beryllium Sulfate Tetrahydrate)

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	
	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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