

# LTS Research Laboratories, Inc. Safety Data Sheet Beryllium

## 1. Product and Company Identification

Trade Name: Beryllium

Chemical Formula: Be

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: 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

H372: Causes damage to organs through prolonged or repeated

exposure

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

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 should not be allowed out of the

workplace

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

protection

P281: Use personal protective equipment as required

P284: Wear respiratory protection

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

or doctor/physician

P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower

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

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

closed

Powder

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

Bulk

HMIS Health Ratings (0-4):

Health: Flammability: 2 0 Physical: 1 0

3. Composition

Chemical Family: Metal Additional Names: N/A

Beryllium (Be):

Percentage: 100 wt% CAS #: 7440-41-7 EC #: 231-150-7

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

**Special Treatment:** 

**Important Symptoms:** 

None None Research

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

Give one to two glasses of water and induce vomiting. Never induce Ingestion:

vomiting or give anything by mouth to an unconscious person.

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: Flammable as powder

Extinguishing Media: Do not use water for metal fires – use CO2, sand, extinguishing

Spec. Fire Fighting Procedure: 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 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.

Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 

7. Handling and Storage

**Handling Conditions:** Wash thoroughly after handling.

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 

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

Permissible Exposure Limits: 0.002 mg/m<sup>3</sup> as Be, long-term value

Threshold Limit Value: 0.00005 mg/m<sup>3</sup> as Be, long-term value

Special Equipment: None

**Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves

Safety glasses or goggles Eye Protection:

**Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless

Water Solubility: Insoluble Redearch **Boiling Point:** 2970 °C

Melting Point: 1278 °C Flash Point: N/A **Autoignition Temperature:** N/A

Density: 1.848 g/cc Molecular weight: 9.0122 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Bases, Halogens, Halocarbons, Oxidizing agents

**Incompatible Conditions:** N/A

Hazardous Decomposition Products: Beryllium oxide, Metal oxide fume

## 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation Skin: Causes skin irritation Ingestion: Toxic if swallowed Inhalation: Fatal if inhaled

Chronic: Causes damage to the lung and the blood through prolonged or repeated

exposure. Route of exposure: inhalative

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

Median Lethal Dose: N/A

Carcinogen: IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical

evidence in, exposed humans.

EPA-B1: Probable human carcinogen, limited evidence of

carcinogenicity from epidemiologic studies

NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this

substance.

# 12. Ecological Information

Aquatic Toxicity:

Notes:

N/A pratorias, Inc.

Persistent Bioaccumulation Toxicity:

N/A Very Persistent, Very Bioaccumulative: N/A

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

#### 13. Disposal Considerations

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

## 14. Transportation Data

Hazardous: Hazardous only as powder

Toxic

**Primary Hazard Class:** 6.1 Poisonous Material Secondary Hazard Class: 4.1 Flammable Solids

Packing Group: PG II UN Number: UN1567

Proper Shipping Name: Beryllium, powder

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

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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