

# SAFETY DATA SHEET

## D-LUCIFERIN

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: 4,5 dihydro-2-(6-hydroxy-2—(6-benzothiazolyl)-4-thiazolecarboxylic acid  
Catalog Number: LUC820

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Not hazardous according to GHS

#### Potential Health Effects

**Target Organs:** None known  
**Eyes:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Inhalation:** may cause irritation.  
**Ingestion:** May cause irritation. May cause irritation of the digestive tract.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
4,5 dihydro-2-(6-hydroxy-2—(6-benzothiazolyl)-4-thiazolecarboxylic acid	2591-17-5	>98%

**Molecular Formula:** C<sub>11</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight:** 280.32

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes.  
**Skin:** Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION.  
**Ingestion:** Wash mouth with water. GET MEDICAL ATTENTION .

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** white crystalline powder. No odor  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity/density:** N/A  
**Vapor Density:** N/A  
**Solubility:** soluble  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation, excessive heat and moisture.  
**Incompatibility:** Strong oxidizing agents and reducing agents  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide sulfur dioxide  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**  
LD50 / LC50:  
Oral rat: LD50 = 10g/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

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### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**European/International:** N/A

**Canada:** WHMIS: **not controlled**

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.