

**SECTION 1: Product and Company Identification****Identification of the substance or mixture**

**Product Name:** L-Luciferin Potassium Salt  
**Catalog #:** 10275, 10275-1, 10275-2, 10275-3

**Company Identification**

Cepharm Life Sciences Inc.  
11830 W Market Place, Suite K  
Fulton, MD 20759  
USA  
Toll Free: 1-800-257-1565  
Phone: 410-636-4954

**24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970**

**For Research Use Only. Not for use in diagnostic procedures.**

**SECTION 2: Hazards identification****GHS - Classification**

This product is not subject to hazardous classification

**OSHA Hazards**

No known hazards

**Potential Health effects**

Eyes	May cause eye irritation.
Skin	May be harmful if absorbed through skin, may cause irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.

**HMIS Classification**

Health hazard:	0
Flammability:	0
Physical hazards:	0

**NFPA Rating**

Health Hazard:	0
Fire:	0
Reactivity Hazard:	0

**SECTION 3: Composition / Information on Ingredients**

**Identity:** L-Luciferin, potassium salt  
**Synonyms:** 4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic Acid potassium salt  
**CAS number:** Not available  
**Molecular Formula:** C<sub>11</sub>H<sub>7</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub>K  
**Molecular Weight:** 418.42 g/mol

## SECTION 4: First Aid Measures

### Skin contact

Immediately wash skin with soap and water.

### Eye contact

Immediately rinse out with water. Consult a physician.

### Ingestion

Wash out mouth with water, make victim drink plenty of water. Consult a physician.

### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

## SECTION 5: Firefighting Measures

### Suitable extinguishing media

Water, carbon dioxide, dry chemical powder or foam.

### Specific hazards arising from the chemical

Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides, Sulphur oxides.

### Special protective actions for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapor, mist or gas.

### Environmental precautions:

Do not let product enter drain.

### Methods and materials for containment and cleaning up:

Sweep up and shovel without creating dust. Keep in suitable closed containers for disposal.

## SECTION 7: Handling & Storage

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 degrees C.

Handle and store under inert gas. Store in the dark. Moisture sensitive. Keep in a dry place.

## SECTION 8: Exposure Controls / Personal Protection

### Control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

No special engineering controls are necessary

### Personal Protective Equipment (PPE)

**Eye / Face protection:** Avoid contact with eyes, wear safety goggles or face shield tested under government standards.

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

**Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Other protective clothing or equipment

Maintain general industrial hygiene practice. Wash skin thoroughly and remove contaminated clothing after handling.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance	Form: yellow powder
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### Other safety information

no data available

## SECTION 10: Stability & Reactivity

**Reactivity:** Not available.

**Chemical Stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Not available.

**Conditions to avoid:** Incompatible materials, heat, sunlight.

**Incompatible materials:** Strong oxidizing agents, Strong bases, Reducing agents.

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides, Sulfur Oxides

## SECTION 11: Toxicological Information

### Acute toxicity

None detected

### Skin corrosion / irritation:

Not available.

### Respiratory or skin sensitization:

Not available.

### Germ cell mutagenicity:

Not available.

### Carcinogenicity:

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 or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP:	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 NTP.
OSHA:	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 OSHA.

### Reproductive toxicity

Not available

**STOT-single exposure:**

Not available

**STOT-repeated exposure:**

Not available

**Aspiration hazard:**

Not available.

**Likely routes of exposure:**

Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:**

Not available.

**SECTION 12: Ecological Information****Toxicity**

Not available

**Persistence and degradability:**

Not available

**Bioaccumulative potential:**

Not available

**Mobility in soil:**

Not available

**Other adverse effects:**

Not available

**SECTION 13: Disposal Considerations**

Disposal should be handled by an approved waste disposal facility.

**SECTION 14: Transport Information****US Department of Transportation (DOT)**

This material is considered to be non-hazardous for transport.

**International Maritime Dangerous Goods (IMDG)**

This material is considered to be non-hazardous for transport.

**International Air Transport Association (IATA)**

This material is considered to be non-hazardous for transport.

**SECTION 15: Regulatory Information****OSHA Hazards:**

No known hazard.

**SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:**

No SARA Hazard

**Massachusetts Right to Know Components**

No components listed

**Pennsylvania Right to Know Components:**

4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid potassium salt

CAS-No.

N/A

**New Jersey Right to Know Components:**

4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid potassium salt

CAS-No.

N/A

**California Prop. 65 Components:**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other Information

**Disclaimer:**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.