

Catalog Number: 154159 Revision date: 26-Apr-2006

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 154159

**Product name: D-LUCIFERIN** 

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway

Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS Number Weight % ACGIH Exposure Limits: OSHA Exposure Limits:

D-LUCIFERIN 2591-17-5 90 - 100% None None

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed. **Skin contact:** May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

### 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

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# 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO2, water spray or "alcohol" foam

**Specific hazards:**Burning produces irritant fumes.

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

**Specific methods:** Water mist may be used to cool closed containers.

Flash point: Not determined Autoignition temperature: Not determined

NFPA rating:

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0

# 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**Use personal protective equipment.
Environmental precautions:
Prevent product from entering drains.

**Methods for cleaning up:**Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

#### Storage:

0°C

STORE UNDER NITROGEN PROTECT FROM LIGHT

**Handling:**Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

**Incompatible products:**Oxidising and spontaneously flammable products

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

**Eye protection:** Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor White to off-white

Physical state: Powder

Formula: C11H8N2O3S2

Molecular weight: 280.33

Melting point/range: 213-215°C (dec.)

**Boiling point/range:**No Data available at this time.

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Density: No data available No data available Vapor pressure: **Evaporation rate:** No data available Vapor density: No data available Solubility (in water): Slightly soluble Flash point: Not determined **Autoignition temperature:** Not determined

# 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

None under normal processing. Polymerization:

Hazardous decomposition products: Nitrogen oxides (NOx)/ammonia/CN-, Sulphur oxides

Materials to avoid: Strong oxidising agents

Conditions to avoid: Exposure to air or moisture over prolonged periods.

### 11. TOXICOLOGICAL INFORMATION

**Product Information** Acute toxicity

Components **RTECS Number:** Selected LD50s and LC50s

**D-LUCIFERIN** Not Available Not Determined

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomitina.

May include moderate to severe erythema (redness) and moderate edema (raised **Specific effects:** 

skin), nausea, vomiting, headache.

No data is available on the product itself. **Primary irritation:** Carcinogenic effects: No data is available on the product itself. Mutagenic effects: No data is available on the product itself. Reproductive toxicity: No data is available on the product itself.

### 12. ECOLOGICAL INFORMATION

No data available Mobility:

**Bioaccumulation:** No data available **Ecotoxicity effects:** No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B -U.S. DOT - Appendix B -**United Kingdom - The Red** List:

**Marine Pollutan Severe Marine Pollutants** 

**D-LUCIFERIN** Not Listed Not Listed Not Listed

Components Germany VCI (WGK) World Health Organization **Ecotoxicity - Fish Species** 

(WHO) - Drinking Water Data **D-LUCIFERIN** Not Listed Not Listed

Not Listed

Components **Ecotoxicity - Microtox Data Ecotoxicity - Water Flea Ecotoxicity - Freshwater** 

> Algae Data Data

**D-LUCIFERIN** Not Listed Not Listed Not Listed

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Components EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

Program Chemical List Pollutants

D-LUCIFERIN Not Listed Not Listed Not Listed

Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants

D-LUCIFERIN Not Listed Not Listed

# 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

### 14. TRANSPORT INFORMATION

UN/ld No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

D-LUCIFERIN Not Listed

TDG (Canada):

WHMIS hazard class: Non-controlled

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

D-LUCIFERIN Not Listed Not Listed

**IMO-labels:** 

# 15. REGULATORY INFORMATION

#### **International Inventories**

# Components

**D-LUCIFERIN** 

Inventory - United States TSCA - Sect. 8(b)Not ListedCanada DSL Inventory List -Not ListedAustralia (AICS):Present

**EU EINECS List -** 219-981-3; C11H8N2O3S2

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U.S. regulations:

Components

California Proposition 65 Massachusetts Right to Know List:

New Jersey Right to Pennsylvania Right to Know List:

List:

D-LUCIFERIN Not Listed Not Listed Not Listed Not Listed

Components Florida substance List: Rhode Island Right to Know List: Rhode Island Right to Contaminants Connecticut - Hazardous Air Contaminants

D-LUCIFERIN Not Listed Not Listed Not Listed Not Listed

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz

of Chemicals

D-LUCIFERIN Not Listed None None

**SARA 313 Notification:** The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

**State Notification:** The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

#### 16. OTHER INFORMATION

Prepared by: Health & Safety

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**End of Safety Data Sheet** 

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