

Revision Date 09-Feb-2011

**Revision Number 1** 

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: D-Luciferin sodium salt monohydrate

Cat No. 336780000; 336780500

**Synonyms** Firefly Luciferin monosodium salt monohydrate

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

**Emergency Telephone Number** 

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

R -phrase(s) none

Label Elements

Signal Word None

**Hazard Statements** 

Other Hazards

No information available.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
D-Luciferin sodium salt monohydrate		> 98	103404-75-7	=	=	-
103404-75-7						

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

Description of first aid measures

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain

medical attention

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes Obtain medical attention

**Ingestion** Clean mouth with water Get medical attention

**Inhalation** Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not

breathing, give artificial respiration Obtain medical attention

Notes to Physician Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray Carbon dioxide (CO<sub>2</sub>) Dry chemical chemical foam

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

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#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed Keep at temperatures below .?1°C Store in freezer Store under an inert atmosphere

#### Specific End Uses

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** 

**Predicted No Effect Concentration** 

(PNEC)

**Exposure controls Engineering Measures** 

**Hand Protection** 

Personal protective equipment

**Eve Protection** Goggles

Skin and body protection

**Respiratory Protection** 

Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Ensure adequate ventilation, especially in confined areas

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures** 

No information available.

No information available.

**Environmental exposure controls** No information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Powder, Solid Yellow **Appearance** 

No information available. pН **Boiling Point/Range** No information available. **Melting Point/Range** No information available Flash Point No information available. **Autoignition Temperature** No information available.



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9. PHYSICAL AND CHEMICAL PROPERTIES

soluble

Water Solubility C11 H7 N2 Na O3 S2 . H2 O **Molecular Formula** 

**Molecular Weight** 320.32

### 10. STABILITY AND REACTIVITY

Reactivity

**Chemical Stability** 

Stable under normal conditions. Moisture sensitive. Air sensitive.

**Possibility of Hazardous Reactions** 

**Hazardous Polymerization** Hazardous polymerization does not occur.

Hazardous Reactions. No information available.

**Conditions to Avoid** 

Exposure to air, Incompatible products, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity** 

**Product Information** No acute toxicity information is available for this product

**Component Information** 

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available. **Mutagenic Effects** No information available **Reproductive Effects** No information available. **Developmental Effects** No information available. **Target Organs** No information available.

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disruptor Information** None known



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### 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity effects**Contains no substances known to be hazardous to the environment or that are not degradable

in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

### 14. TRANSPORT INFORMATION

IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated

### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Inventories** 

Legend

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

### **Chemical Safety Assessment**

### **16. OTHER INFORMATION**

#### Text of R phrases mentioned in Section 2-3

No information available.

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Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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**End of Safety Data Sheet**