

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

<b>NAME</b>	<b>ORDER No</b>	<b>AMOUNT</b>	<b>SYMBOL</b>
D-Luciferine Na-Salt firefly (synth.).	102131	100mg	---
	102132	500mg	---
	102133	1g	---

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PJK GmbH

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## 1 Identification of the substance/mixture and of the company/undertaking

**Product identifier****Trade name:** *D-Luciferin Sodium Salt (synthetic)***Article number:** 102131/102132**CAS Number:**

103404-75-7

**Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the preparation** *Laboratory chemical***Details of the supplier of the safety data sheet****Manufacturer/Supplier:***PJK GmbH**Elsaesser Strasse 51**66271 Kleinblittersdorf**Germany**Phone: +49 (0)6805 91 20 22**Fax: +49 (0)6805 91 20 24**info@pjk-gmbh.com***Further information obtainable from:** *Department Health, Safety and Environment***Emergency telephone number:** *Poison Centre Munich Telefon**+49/(0)89 19240*

## 2 Hazards identification

**Classification of the substance or mixture***Not a dangerous substance according to GHS.**This substance is not classified as dangerous according to Directive 67/548/EEC.***Label elements***The product does not need to be labelled in accordance with EC directives or respective national laws.***Other hazards** – *none*

## 3 Composition/Information on ingredients

**Chemical characterization: Mixtures****Description:** *Mixture of substances listed below with nonhazardous additions.***Components:** *Void*

## 4. First aid measures

**Description of first aid measures****If inhaled***If breathed in, move person into fresh air. If not breathing, give artificial respiration.***In case of skin contact***Wash off with soap and plenty of water.***In case of eye contact***Flush eyes with water as a precaution.***If swallowed***Never give anything by mouth to an unconscious person. Rinse mouth with water.***Most important symptoms and effects, both acute and delayed***To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.***Indication of any immediate medical attention and special treatment needed***no data available*

## 5. Firefighting measures

**Extinguishing media****Suitable extinguishing media***Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.***Special hazards arising from the substance or mixture***Carbon oxides, nitrogen oxides (NOx), Sulphur oxides***Advice for firefighters**

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*Wear self contained breathing apparatus for fire fighting if necessary.*

**Further information**

*no data available*

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

*Avoid dust formation. Avoid breathing vapors, mist or gas.*

**Environmental precautions**

*Do not let product enter drains.*

**Methods and materials for containment and cleaning up**

*Sweep up and shovel. Keep in suitable, closed containers for disposal.*

**Reference to other sections**

*For disposal see section 13.*

## 7. Handling and storage

**Precautions for safe handling**

*Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.*

**Conditions for safe storage, including any incompatibilities**

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

*Recommended storage temperature: -20 °C*

*Air and light sensitive.*

**Specific end uses**

*no data available*

## 8. Exposure controls/personal protection

**Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls**

*General industrial hygiene practice.*

**Personal protective equipment****Eye/face protection**

*Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).*

**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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.*

*Wash and dry hands.*

*The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.*

**Body Protection**

*Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.*

**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).*

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Appearance Form:** *solid*

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**Colour:** light yellow

**Odour** no data available

**Odour Threshold** no data available

**pH** no data available

**Melting point/freezing point**

**Melting point/range:** 201 °C

**Initial boiling point and boiling range** no data available

**Flash point** no data available

**Evaporation rate** no data available

**Flammability (solid, gas)** no data available

**Upper/lower flammability or explosive limits** no data available

**Vapour pressure** no data available

**Vapour density** no data available

**Relative density** no data available

**Water solubility** no data available

**Partition coefficient:** noctanol/water no data available

**Autoignition temperature** no data available

**Decomposition temperature** no data available

**Viscosity** no data available

**Explosive properties** no data available

**Oxidizing properties** no data available

### Other safety information

no data available

## 10. Stability and reactivity

### Reactivity

no data available

### Chemical stability

no data available

### Possibility of hazardous reactions

no data available

### Conditions to avoid

Air Light.

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Other decomposition products - no data available

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data 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.

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## **Reproductive toxicity**

*no data available*

## **Specific target organ toxicity - single exposure**

*no data available*

## **Specific target organ toxicity - repeated exposure**

*no data available*

## **Aspiration hazard**

*no data available*

## **Potential health effects**

**Inhalation** *May be harmful if inhaled. May cause respiratory tract irritation.*

**Ingestion** *May be harmful if swallowed.*

**Skin** *May be harmful if absorbed through skin. May cause skin irritation.*

**Eyes** *May cause eye irritation.*

## **Signs and Symptoms of Exposure**

*To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.*

## **Additional Information**

*RTECS: Not available*

## **12. Ecological information**

**Toxicity** *no data available*

**Persistence and degradability** *no data available*

**Bioaccumulative potential** *no data available*

**Mobility in soil** *no data available*

**Results of PBT and vPvB assessment** *no data available*

**Other adverse effects** *no data available*

## **13. Disposal considerations**

### **Waste treatment methods**

#### **Product**

*Offer surplus and non-recyclable solutions to a licensed disposal company.*

#### **Contaminated packaging**

*Dispose of as unused product*

## **14. Transport information**

### **UN number**

*ADR/RID: - IMDG: - IATA: -*

### **UN proper shipping name**

*ADR/RID: Not dangerous goods*

*IMDG: Not dangerous goods*

*IATA: Not dangerous goods*

### **Transport hazard class(es)**

*ADR/RID: - IMDG: - IATA: -*

### **Packaging group**

*ADR/RID: - IMDG: - IATA: -*

### **Environmental hazards**

*ADR/RID: no IMDG Marine pollutant: no IATA: no*

### **Special precautions for user**

*no data available*

## **15. Regulatory Information**

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

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

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**TRADE NAME: D-LUCIFERIN SODIUM SALT**

*no data available*

***Chemical Safety Assessment***

*no data available*

## 16. Other information

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PJK shall not be held liable for any damage resulting from handling or from contact with the above product.*

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