

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

NAME	ORDER No	AMOUNT	SYMBOL
D-Luciferine K-Salt firefly (synth.).	102141	100mg	---
	102142	500mg	---
	102143	1g	---

PJK GmbH

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

Product identifier**Trade name:** *D-Luciferin Potassium Salt (synthetic)***Article number:** 102141/102142/102143**CAS Number:**

115144-35-9

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

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Appearance Form: *solid*

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

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probable, possible or confirmed human carcinogen by IARC.

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.

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

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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