

**Beetle-Juice BIG KIT 102511**

<b>Name</b>	<b>Description</b>	<b>Amount</b>	<b>Symbol</b>
Beetle-Juice	Buffer for screening with Luciferases from Firefly	1	Xi
ATP	Adenosintriphosphat, Substrate	1	---
D-Luciferine	p. a. free acid, firefly (synth.).	1	---
Lysis-Juice 1	2x concentrated Cell Lysis Reagent	2	Xn; Xi

**Beetle-Juice SMALL KIT 102510**

<b>Name</b>	<b>Description</b>	<b>Amount</b>	<b>Symbol</b>
Beetle-Juice	Buffer for screening with Luciferases from Firefly	5	Xi
ATP	Adenosintriphosphat, Substrate	5	---
D-Luciferine	p. a. free acid, firefly (synth.).	5	---
Lysis-Juice 1	2x concentrated Cell Lysis Reagent	1	Xn; Xi

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier:**

**Trade name:** *Beetle-Juice*

**Article number:** 102511; 102510

**Application of the substance / the preparation**    *Laboratory chemicals*

**Details of the supplier of the safety data sheet**  
**Manufacturer/Supplier:**

*PJK GmbH*

*Elsaesser Strasse 51*

*66271 Kleinblittersdorf*

*Germany*

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*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**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.

*Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

**Classification system:**

*The classification was made according to the latest editions of international substances lists, and is expanded upon by company and technical literature data.*

**Label elements**

**Labelling according to EU guidelines:**

*Observe the general safety regulations when handling chemicals.*

*The product has been classified and marked in accordance with directives on hazardous materials.*

**Safety phrases:**

*Wear protective gloves/protective clothing/eye protection/face protection.*

*Wash thoroughly after handling.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*If eye irritation persists: Get medical advice/attention.*

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterisation:** *Mixtures*

**Description:** *Mixture of the substances listed below with nonhazardous additions*

**Dangerous components:**

<b>CAS</b>	<b>Substance</b>	<b>Conc.</b>
60-00-4	Ethylenediamine tetraacetic acid (EDTA); Xi;R36	<0,01%

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TRADE NAME: BEETLE-JUICE

## 4. FIRST AID MEASURES

### **Description of first aid measures**

**After inhalation:** Supply fresh air.

**After skin contact:** Generally the product does not irritate the skin

**After eye contact:** Rinse opened eye for 10 minutes under running water. Then consult a doctor.

**After swallowing:** Rinse out mouth and drink a glass of water. Do not induce vomiting. Call for a doctor immediately and show the container or label.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**Special hazards arising from the substance or mixture** Not known

## 6 ACCIDENTAL RELEASE MEASURES

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

Avoid contact with the eyes. Wear protective clothing

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

### **Methods and material for containment and cleaning up:**

Absorb with liquid binding material

## 7 HANDLING AND STORAGE

### **Handling:**

#### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep containers, equipment and working place clean.

Handling corresponding to laboratory safety guidelines.

**Information about fire - and explosion protection:** No special measures required.

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

**Storage:** + 4°C / -20°C

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** Keep container tightly sealed.

**Specific end use(s)** No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making were used as basis.

### **Exposure controls**

#### **Personal protective equipment:**

##### **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

##### **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

##### **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### **Material of gloves**

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# MATERIAL SAFETY DATA SHEET

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## TRADE NAME: BEETLE-JUICE

*Nitrile, thickness >0,3 mm.*

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies*

*from manufacturer to manufacturer.*

### **Penetration time of glove material**

*Value for the permeation: Level  $\geq 6$*

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

### **Eye protection:**

*Tightly sealed goggles*

**Body protection:** *Protective work clothing*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on basic physical and chemical properties**

#### **General Information**

#### **Appearance:**

**Form:** *Fluid*

**Colour:** *Colorless*

**Odour:** *Charakteristic*

**Odour threshold:** *Not determined.*

**pH-value at 23°C:** *alkaline*

#### **Change in condition**

**Melting point/Melting range:** *0°C*

**Boiling point/Boiling range:** *100°C*

**Flash point:** *Not applicable*

**Flammability (solid, gaseous):** *Not applicable*

**Ignition temperature:** *Not determind*

**Decomposition temperature:** *Not determind*

**Self-igniting:** *Product is not selfigniting.*

**Danger of explosion:** *Product does not present an explosion hazard.*

#### **Explosion limits:**

**Lower:** *Not determined.*

**Upper:** *Not determined.*

**Vapour pressure at 20°C:** *Not determined*

**Density at 20°C:** *Not determind*

**Bulk density at 20°C:** *Not determind*

**Relative density** *Not determined.*

**Vapour density** *Not determined*

**Evaporation rate** *Not determined*

#### **Solubility in / Miscibility with**

**water at 20°C:** *Not miscible or difficult to mix*

**Segregation coefficient (n-octanol/water):** *Not determined*

#### **Viscosity:**

**Dynamic:** *Not determined*

**Kinematic:** *Not determined*

**Other information** *No further relevant information available*

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:** *No decomposition if used and stored according to specifications.*

**Incompatible materials:** *Strong oxidizing agents, bases (violent reactions).*

**Hazardous decomposition products:** *No dangerous decomposition products known*

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# MATERIAL SAFETY DATA SHEET

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TRADE NAME: BEETLE-JUICE

## 11. Toxicological information

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**60-00-4 edetic acid**

Oral LD50 2580 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

## 12. Ecological information

**Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

**Persistence and degradability** Not available

**Behavior in environmental systems:**

**Bioaccumulative potential** Not known

**Ecotoxicological effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

## 13. Disposal considerations

**Waste treatment methods**

**Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

## 14. Transport information

**DOT regulations:** Not regulated

**Hazard class:** -

**Land transport ADR/RID (cross-border):** Not regulated

**DOT regulations:** Not regulated

**Hazard class:** -

**Land transport ADR/RID (cross-border):** Not regulated

## 15. Regulatory information

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

**National regulations:**

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

In dealing with chemicals the national laws must be observed.

**Waterhazard class:** Water hazard class 2 (Assessment by list): hazardous for water.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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TRADE NAME: BEETLE-JUICE

## 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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# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

**Product identifier****Trade name:** ATP Component B**Article number:** 102511/102510 Beetle-Juice**CAS Number:**

987-65-5

**EINECS Number:**

213-579-1

**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:**

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## 2 Hazards identification

· **Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008**

The substance is not classified according to the CLP regulation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void· **Label elements**· **Labelling according to Regulation (EC) No 1272/2008** Void· **Hazard pictograms** Void· **Signal word** Void· **Hazard statements** Void· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Chemical characterization:** Substances**CAS No. Description**

987-65-5 Adenosine 5'-(tetrahydrogen triphosphate), disodium salt

**Identification number(s)****EC Number:** 213-579-1

## 4 First aid measures

**Description of first aid measures****After inhalation:** Supply fresh air.**After skin contact:** Immediately rinse with water.**After eye contact:** Rinse opened eye for 10 minutes under running water.**After swallowing:**

Rinse out mouth and drink a glass of water. Do not induce vomiting.

If symptoms persist consult doctor.

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TRADE NAME: ATP COMPONENT B

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder, foam or water spray.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Handling corresponding to laboratory safety guidelines.
  - **Information about fire - and explosion protection:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:**
- Keep container tightly sealed.  
Storage temperature: -20 °C

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Required when dusts are generated.
- **Protection of hands:**

Protective gloves

- **Material of gloves**

Nitrile, thickness: >0.1 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies

from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

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# MATERIAL SAFETY DATA SHEET

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## TRADE NAME: ATP COMPONENT B

**Form:** Solid

**Colour:** White

· **Odour:** Odourless

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· **Solubility in / Miscibility with**

**water:** Soluble.

## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** Heating

· **Possibility of hazardous reactions** No information available.

· **Incompatible materials:** Strong oxidizing agents.

· **Hazardous decomposition products:** No information available.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:** Quantitative data on the toxicity of this product are not available.

· **Primary irritant effect:**

· **on the skin:** No irritating effect.

· **on the eye:** No irritating effect.

· **after inhalation:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

· **Further information:** The product should be handled with the care usual when dealing with chemicals.

## 12 Ecological information

· **Toxicity**

· **Acquatic toxicity:** Quantitative data on the ecological effect of this product are not available.

**Additional ecological information:**

· **General notes:** Do not allow product to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

· **Uncleaned packaging:**

· **Recommendation:** Disposal according to official regulations.

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# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

TRADE NAME: ATP COMPONENT B

## 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Remarks:** Not subject to transport regulations.
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -
- **Special precautions for user** Not applicable.

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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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# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

### Product identifier

**Trade name:** *D-Luciferin component A*

**Article number:** 102511/102510 Beetle-Juice

**CAS Number:**

2591-17-5

**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:**

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**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

### Substances

Synonyms : (S)-2-(6-Hydroxy-2-benzothiazolyl)-2-thiazoline-4-carboxylic acid Firefly Luciferin 4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid

**(S)-4,5-Dihydro-2-(6-hydroxybenzothiazol-2-yl)thiazole-4-carboxylic acid**

CAS-No.

2591-17-5

EC-No.

219-981-3

## 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*

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# MATERIAL SAFETY DATA SHEET

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TRADE NAME: D-LUCIFERIN COMPONENT A

## 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 (NO<sub>x</sub>), Sulphur oxides

#### **Advice for firefighters**

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

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# MATERIAL SAFETY DATA SHEET

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## TRADE NAME: D-LUCIFERIN COMPONENT A

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

**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**

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## TRADE NAME: D-LUCIFERIN COMPONENT A

*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.*

### **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: -*

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# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**TRADE NAME: D-LUCIFERIN COMPONENT A**

**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**

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

**Product identifier**

**Trade name:** Lysis-Juice 1

**Article number:** 102511/102510 Beetle-Juice

**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:**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

.....  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Classification system:**

The classification was made according to the latest editions of international substances lists, and is expanded upon by company and technical literature data.

**Label elements**

**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with directives on hazardous materials.

**Safety phrases:**

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective clothing and eye protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

## 3 Composition/Information on ingredients

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions

**Dangerous components:**

Component	Classification	Concentration
p-tertiary-Octylphenoxy polyethyl alcohol	Acute toxicity, Oral (Category 4) Serious eye damage (Category 1) Chronic aquatic toxicity (Category 2)	<1%
CAS: 9002-93-1	H302;H318;H411	
	R22;R41;R51/53	

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TRADE NAME: LYSIS-JUICE 1

## 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**

No data available

#### **Advice for firefighters**

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**

Wear protective clothing

#### **Environmental precautions**

Do not let product enter sewage system or any water course.

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

Absorb with liquid-binding material.

## 7. Handling and storage

### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

Store at +4°. Keep container tightly closed in a dry and well-ventilated place.

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**

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## TRADE NAME: LYSIS-JUICE 1

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

**Colour:** light yellow

**Odour** no data available

**Odour Threshold** no data available

**pH** alkaline

**Melting point/freezing point**

**Melting point/range:** no data available

**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**

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**TRADE NAME: LYSIS-JUICE 1**

*No data available*

**Incompatible materials**

*Strong acids, strong bases, 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.*

**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*

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## 13. Disposal considerations

**Waste treatment methods**

**Product**

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**Contaminated packaging**

*Dispose of as unused product*

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TRADE NAME: LYSIS-JUICE 1

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**UN proper shipping name**

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**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

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