

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-01-20  
Print Date: 2024-01-26

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

### 1.1 Product identifiers

Product name : Pyrene  
Product Number : R109055  
Brand : aladdin  
CAS-No. : 129-00-0

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co., Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Emergency telephone number


Emergency Phone : 0532-83889090

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

|                            |  |
|----------------------------|--|
| Pictogram                  |   |
| Signal word                | Warning  |
| Hazard statement(s)        |  |
| H303                       | May be harmful if swallowed  |
| H316                       | Causes mild skin irritation  |
| H320                       | Causes eye irritation  |
| H400                       | Very toxic to aquatic life   |
| H413                       | May cause long lasting harmful effects to aquatic life   |
| Precautionary statement(s) |  |
| P273                       | Avoid release to the environment.  |
| P305+P351+P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |

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## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

|                  |                                       |
|------------------|---------------------------------------|
| Synonyms         | : beta-Pyrene; Benzo[def]phenanthrene |
| Formula          | : C16H10                              |
| Molecular weight | : 202.25                              |
| CAS No.          | : 129-00-0                            |
| EC-NO.           | : 204-927-3                           |

| Component | Classification    | Concentration |
|-----------|-------------------|---------------|
| Pyrene    | no data available | sublimed, 99% |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice  
no data available  
If inhaled  
no data available  
In case of skin contact  
no data available  
In case of eye contact  
no data available  
If swallowed  
no data available

#### 4.2 Most important symptoms and effects, both acute and delayed

no data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media  
Water, Foam, Carbon dioxide (CO2), Dry powder  
Unsuitable extinguishing media  
no data available

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## 5.2 Special hazards arising from the substance or mixture

no data available

## 5.3 Advice for firefighters

no data available

## 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing

### 6.2 Environmental precautions

no data available

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No data available

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

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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#### Personal protective equipment

Eye/face protection

no data available

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 Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| a) Appearance                                   | form: crystal color: White          |
| b) Odour  | no data available                   |
| c) Odour Threshold                              | no data available                   |
| d) pH   | no data available                   |
| e) Melting point/freezing point                 | 149 - 151 °C (300 - 304 °F)         |
| f) Initial boiling point and boiling range      | 390.0 - 395.0 °C (734.0 - 743.0 °F) |
| g) Flash point                                  | > 200.0 °C (> 392.0 °F)             |
| h) Evaporation rate                             | no data available                   |
| i) Flammability (solid, gas)                    | no data available                   |
| j) Upper/lower flammability or explosive limits | no data available                   |
| k) Vapour pressure                              | no data available                   |
| l) Vapour density                               | no data available                   |
| m) Relative density                             | 1.21 g/cm <sup>3</sup>              |
| n) Water solubility                             | no data available                   |
| o) Partition coefficient: n-octanol/water       | 4.88                                |
| p) Auto-ignition temperature                    | no data available                   |
| q) Decomposition temperature                    | no data available                   |
| r) Viscosity                                    | no data available                   |

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- |                           |                   |
|---------------------------|-------------------|
| s) Explosive properties N | no data available |
| t) Oxidizing properties N | no data available |

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - Rabbit - Mild eye irritation

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

Laboratory tests have shown that multiple effects are present in vitro genotoxicity Ames tests metabolic activation positive in vitro genotoxicity mammalian somatic cell mutations mouse lymphoma cells metabolic activation positive

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible

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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  
Additional Information  
no data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

LC50 for fish - *Oncorhynchus mykiss* (rainbow trout) - > 2 mg/l - 96.0 h EC50 for *Daphnia* and other aquatic invertebrates - *Daphnia magna* (Water flea) - 0.002 - 0.003 mg/l - 48 h

### 12.2 Persistence and degradability

bioconcentration or bioaccumulation other fish- 48 h-0.056 mg/l bioconcentration factor(BCF): 4,810

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

Toxic to aquatic organisms and has long-lasting effects. Avoid release into the environment.

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## SECTION 13:

### 13.1 Disposal considerations

Product  
no data available  
Contaminated packaging  
Dispose of as unused product.

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## SECTION 14: Transport information

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**DOT (US)**

|   |   |                               |
|---|---|-------------------------------|
| UN number: 3077   | Packing group: III                            | Class: 9                      |
| Proper shipping name:<br>ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, SOLID, N.O.S. (Pyrene) | Reportable Quantity(RQ): no data<br>available | Poison Inhalation Hazard: yes |
| Environmental Hazards: yes  |   |                               |

**IMDG**

|   |                    |             |
|---|--------------------|-------------|
| UN number: 3077   | Packing group: III | EMS-No: yes |
| Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pyrene) |                    |             |

**IATA**

|   |                    |          |
|---|--------------------|----------|
| UN number: 3077   | Packing group: III | Class: 9 |
| Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pyrene) |                    |          |

**SECTION 15: Regulatory information**

no data available

**SECTION 16: Other information****Further information**

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