

SAFETY DATA SHEET

Version: v1

Revision Date: 2023-11-

06

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

1.1 Product identifiers

Product name : Pyrene
Product Number : R109056
Brand : aladdin
CAS-No. : 129-00-0

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

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

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.

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	analytical standard

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

no data available

Unsuitable extinguishing media

no data available

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

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.

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

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.

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 ³
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

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

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

在建议的贮存条件下是稳定的

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

吸入会中毒。可能引起呼吸道刺激。

10.5 Incompatible materials

误吞会中毒。

10.6 Hazardous decomposition products

LD50 经口- 大鼠- 2,700 mg/kg 备注：感觉器官和特殊感觉（鼻、眼、耳和味觉）：眼：结膜发炎。行为的：兴奋。行为的：肌肉收缩或痉挛
LC50 吸入- 大鼠- 170.0 mg/m3 备注：感觉器官和特殊感觉（鼻、眼、耳和味觉）：眼：结膜发炎。行为的：兴奋。行为的：肌肉收缩或痉挛

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

眼睛-家兔-轻度的眼睛刺激

Serious eye damage/eye irritation

如果被皮肤吸收会有毒性可能引起皮肤刺激。

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

该产品不是或不包含被IARC,ACGIH,EPA,和NTP列为致癌物的组分3-第3组：未被分类为对人类致癌(Pyrene)

Carcinogenicity

实验室测试表明由诱变效应体外试验表明有致突变效应体外基因毒性-Ames试验-新陈代谢活化-阳性体外基因毒性-哺

乳动物体细胞突变-小鼠淋巴瘤细胞-新陈代谢活化-阳性

Reproductive toxicity

化学物质毒性作用登记:UR2450000

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

可能引起眼睛刺激。

Aspiration hazard

对鱼类的LC50 - Oncorhynchus mykiss (虹鳟) - > 2 mg/l- 96.0 h 对水蚤和其他水生无脊椎动物的EC50 - Daphnia magna (水蚤) - 0.002 - 0.003 mg/l- 48 h

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

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.

SECTION 13:

13.1 Disposal considerations

Product

no data available

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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