# SAFETY DATA SHEET

Version: v1

Revision Date: 2023-11-

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

## 1.1 Product identifiers

Product name : 5-Hydroxy-1,4-naphthoquinone

Product Number : H136625
Brand : aladdin
CAS-No. : 481-39-0

# 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)

Acute toxicity, Oral (Category 3), H301

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 

Signal word Dange

**Hazard statement(s)** 

H301 Toxic if swallowed

Precautionary statement(s)

P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P330 Rinse mouth.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

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

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : Juglone
Formula : C10H6O3
Molecular weight : 174.16
CAS No. : 481-39-0

EC-NO. : no data available

Component	Classification	Concentration
5-Hydroxy-1,4- naphthoquinone		
	Acute Tox. 3; H301	≥97.0%(GC)

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

## In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 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

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

## 6.2 Environmental precautions

Do not let product enter drains.

# 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 carefully. 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

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Storage temperature 2-8°C

## 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**

Replacement of contaminated clothing. Skin protective lotion is recommended. Wash hands after using this substance.

## 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). Safety glasses

#### **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.

## **Body Protection**

protective clothing

#### **Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

### Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance form: powder or crystals color: orange to brown

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 155°C(lit.)

f) Initial boiling point and boiling range 385.8°C at 760 mmHg

g) Flash point 201.3°C

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 no data available

n) Water solubility DMSO (10 mg/ml), ethanol (10 mg/ml), benzene (freely soluble), chloroform

(freely soluble), ether, alkaline solution and solubility in hot water.

o) Partition coefficient: n-octanol/water no data available 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

The product is chemically stable under standard ambient conditions (room temperature) .

# 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents

#### 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 112 mg/kg Remarks: (Lit.)

#### Skin corrosion/irritation

no data available

## Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### 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**

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

# **SECTION 12: Ecological information**

## 12.1 Toxicity

# 12.2 Persistence and degradability

no data available

## 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

Discharge into the environment must be avoided.

#### **SECTION 13:**

# 13.1 Disposal considerations

#### **Product**

Dispose of the remaining and non recyclable solution to a licensed company.

## Contaminated packaging

no data available

## **SECTION 14: Transport information**

DOT (US)

UN number: 2811 Packing group: III Class: 6.1

Proper shipping name: TOXIC SOLID, Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

ORGANIC, N.O.S. (5-Hydroxy-1,4- available available

naphthoquinone)

Environmental Hazards: no

**IMDG** 

UN number: 2811 Packing group: III EMS-No: no data available

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (5-Hydroxy-1,4-naphthoquinone)

IATA

UN number: 2811 Packing group: III Class: 6.1 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (5-Hydroxy-1,4-naphthoquinone)

# **SECTION 15: Regulatory information**

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

#### **SECTION 16: Other information**

#### **Further information**

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