

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# **SAFETY DATA** SHEET

Version: v1

Revision Date: 2025-09-14 Print Date: 2025-09-21

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

#### **Product identifiers** 1.1

Product name : Hexadecyl trimethyl ammonium bromide

**Product Number** :H108984 **Brand** : aladdin CAS-No. :57-09-0

#### 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

: Shanghai Aladdin Biochemical Tech Co.,Ltd Company

Address : 36 Xinjinqiao Road, Shanghai

: 400-620-6333 **Telephone** 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



Danger







Signal word

**Pictogram** 

Hazard statement(s)

H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H335 May cause respiratory irritation

H373 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects H410

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.



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P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.
P391 Collect spillage.

P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved waste disposal plant.
P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P301+P317 IF SWALLOWED: Get medical help.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P317 Get emergency medical help.

P332+P317 If skin irritation occurs: Get medical help.
P319 Get medical help if you feel unwell.

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

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

#### 3.1 Substances

Synonyms : Cetrimonium bromide; Cetyltrimethylammonium bromide; CTAB;

Palmityltrimethylammonium bromide

Formula : C19H42BrN

Molecular weight : 364.45

CAS No. : 57-09-0

EC-NO. : 200-311-3

Component Classification Concentration

Hexadecyl trimethyl ammonium bromide



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Component	Classification	Concentration
	no data available	analytical standard, for environmental analysis

#### **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

### 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.

### **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** 



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no data available

#### 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 no data available b) Odour no data available c) Odour Threshold no data available

d) pH 5.0 - 7 at 36.4 g/l at 25 °C (77 °F) e) Melting point/freezing point 248 - 251 °C (478 - 484 °F)

f) Initial boiling point and boiling range no data available

g) Flash point 244 °C (471 °F) - closed cup

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 I) Vapour density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water log Pow: 3.18 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



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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

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

May be harmful if absorbed through skin. Causes skin irritation.

#### Serious eye damage/eye irritation

Eyes - Rabbit - Severe Eye Irritation

#### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

no data available

#### Carcinogenicity

There are no components in this product at levels greater than or equal to 0.1% that have been identified by IARC as possible or definite human carcinogens.

#### 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

### **SECTION 12: Ecological information**



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### 12.1 Toxicity

 $LC50\ for\ fish-Danio\ rerio\ (zebrafish)-0.3\ mg/l-96.0\ h\ EC50\ for\ Daphnia\ and\ other\ aquatic\ invertebrates-Daphnia\ magna\ (Water\ flea)-0.03\ mg/l-48\ h$ 

### 12.2 Persistence and degradability

Due to the n-octanol/water partition coefficient, it does not accumulate in organisms.

### 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)

UN number: 3077 Packing group: III Class: 9

Proper shipping name: Reportable Quantity(RQ): no data Poison Inhalation Hazard: yes

ENVIRONMENTALLY HAZARDOUS available

SUBSTANCE, SOLID, N.O.S.

(Cetrimonium bromide) (Cetrimonium

bromide)

Environmental Hazards: yes

**IMDG** 

UN number: 3077 Packing group: III EMS-No: yes

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cetrimonium bromide)

(Cetrimonium bromide)

**IATA** 

UN number: 3077 Packing group: III Class: 9



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Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cetrimonium bromide) (Cetrimonium bromide)

## **SECTION 15: Regulatory information**

no data available

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

#### **Further information**

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