

# MSDS

# Material Safety Data Sheet

Date prepared: May 28, 2012

Date revised: N/A (first edition)

## Section 1 - General Information

**Chemical Name:** Benzoic acid  
**CAS Reg. Number:** 65-85-0  
**Catalog Number:** 1ST2703  
**Manufacturer's Name:** Alta Scientific Co., Ltd.  
Tianjin International Joint Academy of Biotechnology & Medicine, N1803  
220 Dongting Road, TEDA, Tianjin 300457, P.R.China  
**Telephone Number:** 86-22-65378550  
**Fax Number:** 86-22-25329655  
*For R & D use only*

## Section 2 - Hazardous Ingredients/Identity Information

### Emergency Overview

**OSHA Hazards:** Harmful by ingestion, Irritant, Harmful by inhalation.  
Irritant

### GHS Classification

Acute toxicity, Oral (Category 5)  
Serious eye damage (Category 1)  
Specific target organ toxicity - single exposure (Category 3)

### GHS Label elements, including precautionary statements



**Pictogram**  
**Signal word** Danger  
**Hazard statement(s)**  
H303 May be harmful if swallowed.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
**Precautionary statement(s)**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ eye protection/ face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### HMIS Classification

**Health hazard:** 2  
**Flammability:** 1  
**Physical hazards:** 0

### NFPA Rating

**Health hazard:** 2  
**Fire:** 1  
**Reactivity Hazard:** 0

### Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed..

## Section 3 - Composition/Information on Ingredients

**Formula:** C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>  
**Molecular Weight:** 122.12g/mol  
**CAS-No.** 65-85-0

## Section 4 - 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.

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## 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.

## Section 5 - Fire-Fighting Measures

### Flammable properties

Flash point	121 °C (250 °F) - closed cup
Ignition temperature	not available

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

**Personal precautions** Avoid dust formation.

**Environmental precautions** Do not let product enter drains.

**Methods for cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

**Handling** Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage** Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Controls/Personal Protection

**Contains no substances with occupational exposure limit values**

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face 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).

**Hand protection** For prolonged or repeated contact use protective gloves

**Eye protection** Safety glasses

**Hygiene measures** General industrial hygiene practice

## Section 9 - Physical and Chemical Properties

### Appearance:

Form	Crystalline
Color	White

### Safety data

pH:	2.5 - 3.5 at 20 °C (68 °F)
Melting point:	121 - 125 °C (250 - 257 °F) - lit.
Boiling point:	249 °C (480 °F) - lit
Flash point:	121 °C (250 °F) - closed cup
Ignition temperature:	572 °C (1,062 °F)
Lower explosion limit:	not available
Upper explosion limit:	not available
Water solubility:	2.9 g/l at 25 °C (77 °F)

## Section 10 - Stability and Reactivity

**Storage stability** Stable under recommended storage conditions

**Materials to avoid** Strong oxidizing agents, Strong bases, Strong reducing agents

**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions.  
- Carbon oxides

## Section 11 - Toxicological Information

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## Acute toxicity:

### Oral LD50

LD50 Oral - rat - > 2,000 mg/kg

### Inhalation LC50

LC50 Inhalation - rat - 4 h - > 12.2 mg/l

### Dermal LD50

LD50 Dermal - rabbit - > 10,000 mg/kg

### Skin corrosion/irritation

Skin - rabbit - Mild skin irritation - 24 h - Draize Test

### Serious eye damage/eye irritation

Eyes - rabbit - Risk of serious damage to eyes. - Draize Test

**Irritation and corrosion:** not available

**Sensitization:** not available

**Respiratory or skin sensitization:** not available

### Chronic exposure

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, ACGIH, NTP, or OSHA.

## Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. May cause skin irritation.  
Eyes: May cause eye irritation.  
Ingestion: May be harmful if swallowed.

## Additional Information

RTECS: DG0875000

## Section 12 - Ecological Information

### Toxicity

Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 180 mg/l - 96 h

Toxicity to algae Growth inhibition EC50 - *Scenedesmus quadricauda* (Green algae) - > 10 mg/l - 14 d

**Elimination information (persistence and degradability)** not available

**Ecotoxicity effects:** not available

**Further information on ecology:** not available

## Section 13 - Disposal Considerations

**Product** Observe all federal, state, and local environmental regulations.

**Contaminated packaging** Dispose of as unused product.

## Section 14- Transport Information

**DOT (US):** UN 3077, Class 9, PG III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Benzoic acid)

Reportable Quantity (RQ): 5000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

## Section 15 - Regulatory Information

**OSHA Hazards:** Harmful by ingestion., Irritant, Harmful by inhalation.Irritant

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

### Massachusetts Right To Know Components

Benzoic acid CAS no. 65-85-0

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## **Pennsylvania Right To Know Components**

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## **New Jersey Right To Know Components**

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## **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## **Section 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. Alta Scientific shall not be held liable for any damage resulting from handling or from contact with the above product.