



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

<b>PRODUCT CODE</b>	A0240
<b>PRODUCT NAME</b>	BENZOIC ACID
<b>SUPPLIER</b>	Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

### 2. HAZARD IDENTIFICATION:

#### 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/ vapors/ 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

<b>Health hazard</b>	2
<b>Flammability</b>	1
<b>Physical hazards</b>	0
<b>Health hazard</b>	2
<b>Fire</b>	1
<b>Reactivity Hazard</b>	0

#### **Potential Health Effects**

<b>Inhalation</b>	Harmful if inhaled. Causes respiratory tract irritation
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation
<b>Eyes</b>	Causes eye irritation
<b>Ingestion</b>	Harmful if swallowed

### **3. COMPOSITION AND INFORMATION ON INGREDIENTS:**

Synonyms	benzoic acid
Formula	C7 H6 O6
Molecular Weight	122.12 g/mol
CAS-No	65-85-0
EC-No	200-618-2

### **4. FIRST-AID GUIDE:**

#### **General advice**

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

### **5. FIRE-FIGHTING GUIDE:**

#### **Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

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

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for firefighting if necessary

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**6. ACCIDENTAL RELEASE GUIDE:****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

**Environmental precautions**

Do not let product enter drains

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

**7. HANDLING AND STORAGE:****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed

**Conditions for safe storage**

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

**8. EXPOSURE AND 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**

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

### **Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

### **Skin and body protection**

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

### **Hygiene measures**

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

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

### **Appearance**

Form crystalline  
Color white

### **Safety data**

pH 2.5 - 3.5 at 20 °C (68 °F)  
Melting point/freezing point no data available  
Boiling point 132 - 133 °C (270 - 271 °F) at 13 hPa (10 mmHg)  
249 °C (480 °F) - lit  
Flash point 121 °C (250 °F) - closed cup  
Ignition temperature 572 °C (1,062 °F)  
Auto-ignition temperature no data available  
Lower explosion limit no data available  
Upper explosion limit no data available  
Vapor pressure 1 3 hPa (10 mmHg) at 132 °C (270 °F)  
Density 1.320 g/cm<sup>3</sup> at 20 °C (68 °F)  
Water solubility 2.9 g/l at 25 °C (77 °F)  
Partition coefficient: n-octanol/water log Pow: 1.88  
Relative vapor density 4.22  
- (Air = 1.0)  
Odor no data available  
Odor Threshold no data available  
Evaporation rate no data available

## **10. STABILITY AND REACTIVITY:**

### **Chemical stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Materials to avoid**

Strong oxidizing agents, Strong bases, Strong reducing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - no data available

**11. TOXICOLOGICAL INFORMATION:**

**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

**Other information on acute toxicity**

No data available

**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

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

**IARC**

No components 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**

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

**NTP**

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

**OSHA**

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Inhalation - May cause respiratory irritation. – Lungs

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

<b>Inhalation</b>	Harmful if inhaled. Causes respiratory tract irritation
<b>Ingestion</b>	Harmful if swallowed
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation
<b>Eyes</b>	Causes eye irritation

**Signs and Symptoms of Exposure**

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

**Synergistic effects**

No data available

**Additional Information**

RTECS: DG0875000

**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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

Bioaccumulation *Leuciscus idus* (Golden orfe) - 3 d

Bioconcentration factor (BCF): 5.3

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL RECOMMENDATIONS:****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

**Contaminated packaging**

Dispose of as unused product

**14. TRANSPORTATION INFORMATION:****DOT (US)**

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s.

Reportable Quantity (RQ): 5000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**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	Revision Date
	65-85-0	2007-03-01

**Pennsylvania Right to Know Components**

Benzoic acid	CAS-No	Revision Date
	65-85-0	2007-03-01

**New Jersey Right to Know Components**

Benzoic acid	CAS-No	Revision Date
	65-85-0	2007-03-01

**California Prop 65 Components**

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

**16. OTHER INFORMATION:**

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.