



Specialized in chemicals

## Material Safety Data Sheet

### Benzoic acid

#### Section 1: Chemical Product and Company Identification

**Product Name:** Benzoic acid

**CAS#:** 65-85-0

**CI#:** Not available.

**Synonym:**

**Chemical Name:** Benzoic acid

**Chemical Formula:** C<sub>6</sub>H<sub>5</sub>COOH

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#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Benzoic acid	65-85-0	100

**Toxicological Data on Ingredients:** Benzoic acid: ORAL(LD50): Acute:

1700mg/kg(Rat).1940mg/kg [Mouse].2000mg/kg[Dog].Dermal(LD50):Acute:10000mg/kg[Rabbit].

### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Very hazardous in case of ingestion. Hazardous in case of skin contact(irritant), of eye contact(irritant), of inhalation.

**Potential Chronic Health Effects:**

Carcinogenic effects: Not available. Mutagenic effects: Not available. Teartogenic effects: Not available. Developmental Toxicity: Not available. The substance is toxic to blood, the nervous system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:**

Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 574°C(1065.2° F)

**Flash Points:** Closed cup: 121°C(249.8° F)

**Flammable Limits:** Not applicable.

**Products of Combustion:** These products are carbon oxides(CO, CO2).

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:** Small fire: Use DRY chemical powder. Large fire: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish clearing by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment if ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Storage:** Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent.

Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## Section 9: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Not available.  
**Incompatibility with various substances:** Not available.  
**Corrosivity:** Non-corrosive in presence of glass.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

## Section 10: Physical and Chemical Properties

**Physical state and appearance:** Solid.  
**Odor:** Not available.  
**Taste:** Not available.  
**Molecular Weight:** 122.12g/mole  
**Color:** Not available.  
**pH (1% soln/water):** 3[Acidic.]  
**Boiling Point:** 249.2°C (480.6° F)  
**Melting Point:** 122.4°C (252.3° F)  
**Critical Temperature:** Not available.  
**Specific Gravity:** 1.2659(Water=1)  
**Vapor Pressure:** Not applicable.  
**Vapor Density:** 4.21(Air=1).  
**Volatility:** Not available.  
**Odor Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** The product is equally soluble in oil and water; log(oil/water)=0  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:** Very slightly soluble in cold water.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion. Eye contact.  
**Toxicity to Animals:** Acute oral toxicity (LD50): 1700mg/kg[Rat]. Acute dermal toxicity(LD50):10000mg/kg[Rabbit].  
**Chronic Effects on Humans:**  
Causes damage to the following organs: lungs, the nervous system, mucous membranes.  
**Other Toxic Effects on Humans:**  
Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of skin contact (permeator).  
**Special Remarks on Toxicity to Animals:**  
Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Not available.

**Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

**Section 13: Disposal Considerations****Waste Disposal:**

Waste disposed

**Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material.

**Identification:** : Not applicable.

**Special Provisions for Transport:** Not available.

**Section 15: Other Regulatory Information**

**Federal and state regulations: TSCA8(b) inventory:** Benzoic acid

Other Regulations: OSHA: Hazardous by definition of Hazard communication standard(29 CFR1910.1200)

**References:** Not available.

**Other Special Considerations:** Not available.

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