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# MATERIAL SAFETY DATA SHEET

MSDS No.: BB0105  
Revision Date: November 23, 2011  
Approved by: James A. Bertsch

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## Section 1 Chemical Product and Company Information

<b>Product</b>	<b>BENZOIC ACID</b>
<b>Synonyms</b>	Benzenecarboxylic Acid

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

## Section 2 Hazards Identification

### Emergency Overview

**WARNING!**  
HARMFUL IF SWALLOWED. DUST OR VAPOR MAY CAUSE IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.  
Store in a cool place away from heat, fire and oxidizing materials. Sublimes when heated, emitting highly acrid fumes. Wash thoroughly after handling.  
Target organs: None known.

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

<b>Health</b>	1
<b>Fire</b>	1
<b>Reactivity</b>	1
<b>Contact</b>	1

HMIS \*

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Benzoic acid	65-85-0	100%	None established.

## Section 4 First Aid Measures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**General information:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. In fire conditions, hazardous decomposition products to be formed as dust or fume. This combustible material is a slight fire hazard when exposed to heat or flames. Material may react with oxidizing materials. When heated, sublimes emitting highly acrid fumes.

**Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Flash Point:** 121-131°C (249-267°F) CC

**Autoignition temperature:** 573°C (1065°F)

**Explosion Limits: Lower:** N/A **Upper:** N/A

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe



## Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

## Section 7 Handling & Storage GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.  
**Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors or dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.  
**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

## Section 8 Exposure Controls / Personal Protection

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical & Chemical Properties

**Physical state:** Solid.

**Appearance:** White, crystals.

**Odor:** Odor of benzaldehyde or benzoin.

**pH:** N/A

**Vapor pressure (mm Hg):** 1 mm@ 96° (sublimes)

**Vapor Density (Air = 1):** 4.21

**Evaporation rate (Butyl acetate = 1):** N/A

**Viscosity:** N/A

**Boiling point:** 249°C (480°F)

**Freezing / Melting point:** 121°C (249°F)

**Decomposition temperature:** N/A

**Solubility:** Slightly.

**Specific gravity (H<sub>2</sub>O = 1):** 1.321

**Percent volatile (%):** 100%

**Molecular formula:** C<sub>6</sub>H<sub>5</sub>COOH

**Molecular weight:** 122.12

## Section 10 Stability & Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures and heat.

**Incompatibilities with other materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Toxic vapors and gases including phenol, benzene and carbon monoxide.

## Section 11 Toxicological Information

**Effects of overexposure:** Inhalation of dust or vapor causes irritation of upper respiratory tract. Ingestion of large quantities can cause nausea, gastrointestinal disorder and/or allergic reactions. Prolonged contact with skin can cause irritation. Contact with eyes causes extreme irritation and can be corrosive. Material in a molten form will cause thermal burns to skin and eyes. Exercise appropriate procedures to minimize potential hazards.

ORL-RAT LD50: 2350 mg/kg

## Section 12 Ecological Information

Data not yet available.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information

**UN/NA number:** N/A

**Shipping name:** Not Regulated.

**Hazard class:** N/A

**Packing group:** N/A

**Exceptions:** N/A

## Section 15 Regulatory Information

TSCA-listed, EINECS-listed (200-618-2), DSL-listed.

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards.