

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 106.00

Revision Date: May 24, 2012

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Benzoic Acid

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTRAC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Benzoic acid

Synonym: Benzene carboxylic acid

CAS#: 65-85-0

### SECTION 3 — HAZARDS IDENTIFICATION

White, crystalline powder. Maple syrup-like odor.

Slightly toxic by ingestion. Severe irritant. Avoid contact with skin, eyes, and respiratory tract.  
Combustible solid.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-1  
Reactivity-1  
Exposure-1  
Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

Flash point: 121 °C Autoignition Temperature: 572 °C

#### NFPA CODE

H-2

When heated to decomposition, emits acrid smoke and irritating fumes.

F-1

**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

R-1

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and water. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### SECTION 7 — HANDLING AND STORAGE

Flinn suggested chemical storage pattern: Organic #1. Store with acids, anhydrides, and peracids.

Store in a cool, dry place. Use and dispense in a hood.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystalline powder with an odor like maple syrup.

Solubility: Soluble in alcohol, slightly in water.

Formula:  $C_6H_5COOH$

Formula weight: 122.13

Boiling point: 249 °C

Melting point: 122 °C

Refractive index: 1.50

Specific gravity: 1.27

Vapor density: 4.21

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with heat, strong oxidizers, bases, and reducing agents. Combustible.

Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe irritant, sensitizer.

ORL-RAT LD<sub>50</sub>: 1700 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #24a is one option.

### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A

UN number: N/A

N/A = Not applicable

### SECTION 15 — REGULATORY INFORMATION

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

### SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.**