

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 104.00

Revision Date: March 15, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Benzaldehyde

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Benzaldehyde

Synonym: artificial almond oil

CAS#: 100-52-7

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### Section 3 — Hazards Identification

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Colorless liquid with almond odor.

Vapor irritating to eyes, nose and throat; slightly toxic by ingestion. Avoid ingestion, inhalation and skin absorption.

Combustible liquid.

#### FLINN AT-A-GLANCE

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

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

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

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### Section 5 — Fire Fighting Measures

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Class IIIA combustible liquid.

Flash Point: 148 F LEL: 1.4% (20 F) Autoignition Temperature: 374 F

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

#### NFPA CODE

H-2  
F-2  
R-0

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, esters and aldehydes.

Protect from light, keep tightly closed in a Flinn Chem-Saf bag. Use and dispense in a hood.

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### Section 8 — Exposure Controls, Personal Protection

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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.

### Section 9 — Physical and Chemical Properties

Colorless liquid with almond odor.  
Solubility: Slightly soluble in water (0.3%).  
Miscible in alcohol.

Formula: C<sub>6</sub>H<sub>5</sub>CHO  
Formula Weight: 106.13  
Specific Gravity: 1.04  
Boiling Point: 179 C

### Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers, reducing agents and bases. Avoid prolonged exposure to light.  
Shelf life: Fair; oxidizes to benzoic acid.

### Section 11 — Toxicological Information

Acute effects: highly toxic, sensitizer, irritant  
Chronic effects: nausea, dizziness and headache, central nervous system depression, mutagen.  
Target organs: central nervous system

ORL-RAT LD50: 1300 mg/kg  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: 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 consult with state and local regulations before disposal.  
Flinn Suggested Disposal Method #2 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 (202-860-4).

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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