

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 133.00

Revision Date: May 20, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Bromobenzene

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

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Bromobenzene

Synonym: phenyl bromide

CAS#: 108-86-1

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid with an aromatic odor like moth balls.

Moderately toxic by ingestion and inhalation.

Combustible. Moderate fire risk.

Irritant to body tissue.

FLINN AT-A-GLANCE

Health-2

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

External: Wash continuously with fresh water for at least 15 minutes.

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

SECTION 5 — FIRE FIGHTING MEASURES

Class II combustible liquid.

Heating to decomposition emits toxic bromide fumes.

Flash Point: 124 °F Upper: 36.5% Lower: 6% Autoignition Temperature: 1051 °F

Fire Fighting Instructions: Use a 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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, halogenated hydrocarbons, and ethylene oxide. Use and dispense in a hood. Store in a cool, dry place.

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 ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid with an aromatic odor.
 Solubility: Insoluble in water.
 Formula: C₆H₅Br
 Formula Weight: 157.02

Boiling Point: 155 °C
 Melting Point: -31 °C
 Specific Gravity: 1.52
 Vapor Density: 5.41 (Air=1)
 Vapor Pressure: 4 mm @ 25 °C

SECTION 10 — STABILITY AND REACTIVITY

Prudent laboratory practices should be observed.
 Avoid contact with strong oxidizers.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, stomach pains, vomiting, and diarrhea.
 Chronic effects: N.A.
 Target organs: N.A.

ORL-RAT LD₅₀: 2699 mg/kg
 IHL-RAT LC₅₀: 20411 mg/m³
 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.
 Flinn Suggested Disposal Method #4b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Bromobenzene
 Hazard Class: 3, Flammable Liquid
 UN Number: UN2514
 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-623-8), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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