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## BROMOBENZENE

### 1. Product Identification

Synonyms: Monobromobenzene, phenyl bromide

CAS No.: 108-86-1

Molecular Weight: 157.01

Chemical Formula:  $C_6H_5Br$

Product Codes: 38173

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Bromobenzene	108-86-1	99 - 100%

### 3. Hazards Identification

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Affects central nervous system causing dizziness, incoordination and unconsciousness. May be absorbed into the bloodstream with symptoms similar to ingestion.

Ingestion: May cause abdominal pain, nausea, vomiting, diarrhea, headache, dullness, central nervous system effects and liver damage.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.

Eye Contact: Causes irritation, redness, and pain.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: Persons with pre-existing liver damage may be more susceptible to the effects of this material.

### 4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wash skin with soap or mild detergent and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 5. Fire Fighting Measures

Fire: Flash point: 51C (124F) Autoignition temperature: 566C (1051F)

Explosion: Above the flash point, explosive vapor-air mixtures may be formed. Vapors can flow along surfaces to distant ignition source and flash back.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

#### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation.

#### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Odor: Characteristic aromatic odor.

Solubility: Insoluble in water.

Specific Gravity: 1.50 @ 20C/4C

pH: No information found.

% Volatiles by volume @ 21C (70F): No information found.

Boiling Point: 156C (313F)

Melting Point: -31C (-24F)

Vapor Density (Air=1): 5.41

Vapor Pressure (mm Hg): 10 @ 40C (104F)

Evaporation Rate (BuAc=1): No information found.

#### 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Oxides of carbon as well as ionic or oxidized halogen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

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#### 11. Toxicological Information

Oral rat LD50: 2699 mg/kg. Inhalation rat LC50: 20411 mg/kg. Investigated as a mutagen.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Bromobenzene (108-86-1)	No	No	None

#### 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Land

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Proper Shipping Name: BROMOBENZENE

Hazard Class: 3

UN/NA: UN2514

Packing Group: III

Water

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Proper Shipping Name: BROMOBENZENE

Hazard Class: 3.3

UN/NA: UN2514

Packing Group: III

Air

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Proper Shipping Name: BROMOBENZENE

Hazard Class: 3.3

UN/NA: UN2514

Packing Group: III

#### 15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No

Reactivity: No (Pure / Liquid)

#### 16. Other Information

Product Use:

Laboratory Reagent.