

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.20.2014

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## Bromobenzene

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** Bromobenzene

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25665A

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

**Emergency telephone number:**

**Fisher Science Education**  
Emergency Telephone No.: 800-535-5053

### SECTION 2: Hazards identification

**Classification of the substance or mixture:**



**Flammable**



**Irritant**



**Environmentally Damaging**

Flam Liq. 3.  
Skin irrit, cat 2.  
Aquatic ChrTox. 2.

**Signal word:** Warning

**Hazard statements:**

Flammable liquid and vapour.  
Causes skin irritation.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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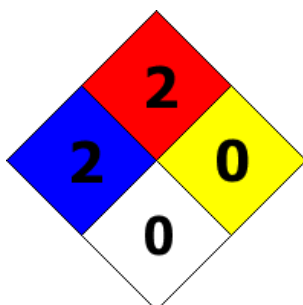
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/light/.../equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash ... thoroughly after handling.  
Avoid release to the environment.  
IF ON SKIN: Wash with soap and water.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Take off contaminated clothing and wash before reuse.  
If skin irritation occurs: Get medical advice/attention.  
Specific treatment (see ... on this label).  
In case of fire: Use ... for extinction.  
Collect spillage.  
Store in a well ventilated place. Keep cool.  
Dispose of contents/container to ....

### Other Non-GHS Classification:

#### WHMIS



#### NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	0

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

#### Ingredients:

CAS 108-86-1

Bromobenzene

>99 %

Percentages are by weight

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

##### After skin contact:

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Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical attention if irritation persists or if concerned.

#### After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned. Do not use mouth-to-mouth resuscitation. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

#### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

#### Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**Unsuitable extinguishing agents:** None

#### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.

#### Advice for firefighters:

**Protective equipment:** None

##### Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

#### Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

#### Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

**Reference to other sections:** None

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Wash hands after handling. Use spark-proof equipment. Keep away from heat, sparks, and flames. Remove contaminated clothing and wash before reuse. Avoid contact with

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skin, eyes, and clothing. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

#### Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Store with like hazards.

### SECTION 8: Exposure controls/personal protection



#### Control Parameters:

108-86-1, Bromobenzene, Contains no substances with occupational exposure limit values.

#### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof equipment. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

#### Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

#### Protection of skin:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Eye protection:

Safety glasses with side shields or goggles.

#### General hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear, colorless liquid.	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not Determined Not Determined
<b>Odor:</b>	Aromatic odor	<b>Vapor pressure at 20°C:</b>	3.3 mmHg @ 20 C
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	5.41
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	1.49
<b>Melting/Freezing point:</b>	- 31C	<b>Solubilities:</b>	Insoluble.
<b>Boiling point/Boiling range:</b>	155C	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	51C	<b>Auto/Self-ignition temperature:</b>	Not Determined

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<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gaseous):</b>	Flammable	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density at 20°C:</b>	Not Determined		

### SECTION 10: Stability and reactivity

**Reactivity:** None

**Chemical stability:**

No decomposition if used and stored according to specifications.

**Possible hazardous reactions:** None

**Conditions to avoid:**

Store away from oxidizing agents, strong acids or bases. Ignition sources, excess heat, confined spaces.

**Incompatible materials:**

Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products:**

Oxides of carbon , hydrogen bromide.

### SECTION 11: Toxicological information

**Acute Toxicity:**

**Oral:**

ECHA LD50 orl - rat: 2383 mg/kg

**Inhalation:**

ECHA LC50 inhalation - rat: 20,411 mg/m3

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:**

**Dermal:**

Causes skin and gastrointestinal tract irritation.

**Sensitization:**

Irritation: Causes skin and gastrointestinal tract irritation.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12: Ecological information

**Ecotoxicity:**

EC50: Bacteria: Phytobacterium phosphoreum: 9.46 mg/L; 30 minutes; Microtox test;

**Persistence and degradability:**

Readily degradable in the environment.

**Bioaccumulative potential:** No additional information.

**Mobility in soil:**

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Aqueous solution has high mobility in soil.

**Other adverse effects:** No additional information.

#### SECTION 13: Disposal considerations

##### Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

#### SECTION 14: Transport information

##### US DOT

###### UN Number:

ADR, ADN, DOT, IMDG, IATA

2514

###### Limited Quantity Exception:

None

###### Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** Bromobenzene.

**Hazard Class:** 3

**Packing Group:** III.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

###### Non Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** Bromobenzene.

**Hazard Class:** 3

**Packing Group:** III.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None



#### SECTION 15: Regulatory information

##### United States (USA)

###### SARA Section 311/312 (Specific toxic chemical listings):

Acute, Fire

###### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

###### RCRA (hazardous waste code):

None of the ingredients are listed.

###### TSCA (Toxic Substances Control Act):

All ingredients are listed.

###### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

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#### Proposition 65 (California):

**Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

#### Canada

**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed.

#### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:** None

#### Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.  
PNEC Predicted No-Effect Concentration (REACH).  
CFR Code of Federal Regulations (USA).  
SARA Superfund Amendments and Reauthorization Act (USA).  
RCRA Resource Conservation and Recovery Act (USA).  
TSCA Toxic Substances Control Act (USA).  
NPRI National Pollutant Release Inventory (Canada).  
DOT US Department of Transportation.  
IATA International Air Transport Association.  
GHS Globally Harmonized System of Classification and Labelling of Chemicals.  
ACGIH American Conference of Governmental Industrial Hygienists.  
CAS Chemical Abstracts Service (division of the American Chemical Society).  
NFPA National Fire Protection Association (USA).  
HMIS Hazardous Materials Identification System (USA).  
WHMIS Workplace Hazardous Materials Information System (Canada).

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DNEL Derived No-Effect Level (REACH).

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**Last updated:** 05.15.2015