

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Bromobenzene p.**

Revision: 05.10.2026

Product code: AC11.00185

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Bromobenzene p.

Substance name: bromobenzene  
CAS No: 108-86-1  
Index No: 602-060-00-9  
EC No: 203-623-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

**1.3. Details of the supplier of the safety data sheet****Details of the supplier of the safety data sheet**

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

**Supplier or manufacturer details**

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+353 1 901 4670 (CHEMTREC)

**1.4. Emergency telephone number:**

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## Further Information

No data available

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 3; H226

Skin Irrit. 2; H315

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



## Hazard statements

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H411

Toxic to aquatic life with long lasting effects.

## Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273

Avoid release to the environment.

P391

Collect spillage.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to an appropriate recycling or disposal facility.

## 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Sum formula: C<sub>6</sub>H<sub>5</sub>Br

Molecular weight: 157,01 g/mol

## Relevant ingredients

| CAS No   | Chemical name                                                  |              |          | Quantity |
|----------|----------------------------------------------------------------|--------------|----------|----------|
|          | EC No                                                          | Index No     | REACH No |          |
|          | Classification (Regulation (EC) No 1272/2008)                  |              |          |          |
| 108-86-1 | bromobenzene                                                   |              |          | 100 %    |
|          | 203-623-8                                                      | 602-060-00-9 |          |          |
|          | Flam. Liq. 3, Skin Irrit. 2, Aquatic Chronic 2; H226 H315 H411 |              |          |          |

Full text of H and EUH statements: see section 16.

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## Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name                            | Quantity |
|----------|-----------|------------------------------------------|----------|
|          |           | Specific Conc. Limits, M-factors and ATE |          |
| 108-86-1 | 203-623-8 | bromobenzene                             | 100 %    |
|          |           | oral: LD50 = 3591 mg/kg                  |          |

## Further Information

No data available

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

First aider: Pay attention to self-protection!

## After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

## After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

## After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

## After ingestion

Rinse mouth.

Do NOT induce vomiting. Aspiration hazard

Call a physician immediately.

## 4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.

## 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Combustible liquids

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide

Carbon monoxide

Hydrogen bromide (HBr)

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**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

Heating causes rise in pressure with risk of bursting.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Vapours can form explosive mixtures with air.

**For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

To follow: Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Explosion risk.

**6.3. Methods and material for containment and cleaning up****For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Read label before use.

Handle and open container with care.

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Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Provide adequate ventilation.  
Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

#### Advice on general occupational hygiene

Keep away from: Food and feedingstuffs  
When using do not eat, drink, smoke, sniff.  
Provide eye shower and label its location conspicuously  
In the immediate working surroundings there must be: Emergency shower installed

#### Further information on handling

Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Take off immediately all contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed.  
Protect against: Radiant heat.

##### Hints on joint storage

Take national regulations into account. /National regulations

##### Further information on storage conditions

Store in a dry place.  
Store in a well-ventilated place.

#### 7.3. Specific end use(s)

The product is intended for research, analysis and scientific education.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

Observe in addition any national regulations!

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles  
Face protection umbrella

##### Hand protection

Tested protective gloves must be worn  
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing. Flame-retardant protective clothing . Wear anti-static footwear and clothing  
When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.  
Take off immediately all contaminated clothing and wash it before reuse .

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### Thermal hazards

No data available

#### Environmental exposure controls

Do not allow to enter into surface water or drains.  
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.  
Danger of explosion

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                           |                   |
|-----------------------------------------------------------|-------------------|
| Physical state:                                           | Liquid            |
| Colour:                                                   | colourless        |
| Odour:                                                    | aromatic          |
| Odour threshold:                                          | No data available |
| Melting point/freezing point:                             | -31 °C            |
| Boiling point or initial boiling point and boiling range: | 156 °C            |
| Flammability:                                             | No data available |
| Lower explosion limits:                                   | No data available |
| Upper explosion limits:                                   | No data available |
| Flash point:                                              | 51 °C             |
| Auto-ignition temperature:                                | 565 °C            |
| Decomposition temperature:                                | No data available |
| pH-Value:                                                 | No data available |
| Viscosity / kinematic:                                    | No data available |
| Water solubility:<br>(at 30 °C)                           | 0,45 g/l          |
| Solubility in other solvents                              | No data available |
| Dissolution rate:                                         | No data available |
| Partition coefficient n-octanol/water:                    | No data available |
| Dispersion stability:                                     | No data available |
| Vapour pressure:<br>(at 20 °C)                            | 4,3 hPa           |
| Vapour pressure:<br>(at 50 °C)                            | 25 hPa            |
| Density (at 20 °C):                                       | 1,50 g/cm³        |
| Relative density:                                         | No data available |
| Bulk density:                                             | No data available |
| Relative vapour density:                                  | No data available |
| Particle characteristics:                                 | No data available |

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**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

Vapours can form explosive mixtures with air.

## Sustained combustibility:

No data available

## Self-ignition temperature

Solid:

No data available

Gas:

No data available

## Oxidizing properties

Oxidizing

**Other safety characteristics**

## Evaporation rate:

No data available

## Solvent separation test:

No data available

## Solvent content:

No data available

## Solid content:

No data available

## Sublimation point:

No data available

## Softening point:

No data available

## Pour point:

No data available

## No data available:

## Viscosity / dynamic:

No data available

## Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Vapours can form explosive mixtures with air.

**10.2. Chemical stability**

Protect against: Radiant heat.

**10.3. Possibility of hazardous reactions**

Oxidising agent

Peroxides

Alkali metals

Alkaline earth metal

**10.4. Conditions to avoid**

Radiant heat.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

In case of fire may be liberated:

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicokinetics, metabolism and distribution

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No data available

**Acute toxicity**

Based on available data, the classification criteria are not met.

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|----------|----------------|-----------------|---------|---------------------------------------|------------------------------------------|
|          | Exposure route | Dose            | Species | Source                                | Method                                   |
| 108-86-1 | bromobenzene   |                 |         |                                       |                                          |
|          | oral           | LD50 3591 mg/kg | Rat     | J. Appl. Toxicol. 4(6):320-325 (1984) | - Principle of test: Single oral dose ad |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other information**

No data available

**Further information**

No data available

**SECTION 12: Ecological information****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

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| CAS No   | Chemical name            |                 |           |                                 |                            |                                          |
|----------|--------------------------|-----------------|-----------|---------------------------------|----------------------------|------------------------------------------|
|          | Aquatic toxicity         | Dose            | [h]   [d] | Species                         | Source                     | Method                                   |
| 108-86-1 | bromobenzene             |                 |           |                                 |                            |                                          |
|          | Acute fish toxicity      | LC50 5,6 mg/l   | 96 h      | Pimephales promelas             | GESTIS                     |                                          |
|          | Acute algae toxicity     | ErC50 mg/l 12,3 | 72 h      | Pseudokirchneriella subcapitata | REACH Registration Dossier | other: Circular on Test Methods of New C |
|          | Acute crustacea toxicity | EC50 mg/l 15,7  | 48 h      | Daphnia magna                   | REACH Registration Dossier | OECD Guideline 202                       |

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

| CAS No   | Chemical name | Log Pow |
|----------|---------------|---------|
| 108-86-1 | bromobenzene  | 3,12    |

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.  
Explosion risk.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Send to a physico-chemical treatment facility under observation of official regulations.  
Do not allow to enter into surface water or drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|                                          |              |
|------------------------------------------|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 2514      |
| <b>14.2. UN proper shipping name:</b>    | BROMOBENZENE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | III          |
| Hazard label:                            | 3            |
| Classification code:                     | F1           |
| Limited quantity:                        | 5 L          |

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Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 2514  
**14.2. UN proper shipping name:** BROMOBENZENE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3  
 Classification code: F1  
 Limited quantity: 5 L  
 Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 2514  
**14.2. UN proper shipping name:** BROMOBENZENE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3  
 Special Provisions: -  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 2514  
**14.2. UN proper shipping name:** BROMOBENZENE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

#### 14.5. Environmental hazards

Marine pollutant: P

#### 14.6. Special precautions for user

No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Restrictions on use (REACH, annex XVII):  
 Entry 3, Entry 40, Entry 75

##### Additional information

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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**National regulatory information****SECTION 16: Other information****Abbreviations and acronyms**

Flam. Liq. 3: Flammable liquids, hazard category 3

Skin Irrit. 2: Skin irritation, hazard category 2

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.