

Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code CC/0114-CH

Product Name **BROMOBENZENE pure**

Molecular Formula **C₆H₅Br =157.01**

CAS Number 108-86-1

Supplier: **CAMLAB LIMITED**

**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

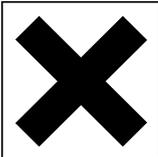
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(Have this document to hand)

2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|--------------|----------|--------|----------|-------------------------------|---------------|
| Bromobenzene | 108-86-1 | | 100.0% | Xi N : R10,R38,R51/53 | N/A |

3. Hazards Identification



Flammable. Irritating to skin. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are explosive.

Extinguishing Media Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to keep fire exposed containers cool.

Unsuitable Media Do not use water jet.

6. Accidental Release Measures

| | |
|---------------------|---|
| Personal Protection | Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots. |
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
| Major Spillage | Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water. |
| Minor Spillage | Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water. |

7. Storage & Handling

| | |
|----------------------|--|
| Handling Precautions | All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits. |
| Storage Conditions | Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents. |

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

| | |
|-------------|---|
| Respiratory | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hands | Use solvent resistant gloves. |
| Eyes | Use chemical splash proof glasses or goggles. |
| Skin | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |

9. Physical & Chemical Properties

| | |
|-----------------------|-------------------------------------|
| Appearance | Clear colourless liquid. |
| Odour | Pleasant sweet odour. |
| pH | Not available |
| Boiling point | 156.0 °C |
| Melting point | 31.0- °C |
| Flash point | 51.0 °C(Closed cup) |
| Upper Flammable Limit | Not available |
| Lower Flammable Limit | Not available |
| Auto Ignition | Not available |
| Explosive properties | Moderate/severe in confined spaces. |
| Oxidising Properties | No. |
| Vapour Pressure | Not available |
| Relative Density | 1.5000 °C |
| Water Solubility | Slightly soluble in water. |

10. Stability & Reactivity

| | |
|---------------------|--|
| Chemical Stability | Stable under normal conditions |
| Conditions to Avoid | Hot surfaces, naked flames or other sources of ignition. |
| Materials to Avoid | Strong oxidising agents. |

10. Stability & Reactivity (continued)

Hazardous Burning will produce smoke, carbon monoxide and/or carbon dioxide. May decompose to emit
Decomposition Products toxic and irritant fumes of hydrogen bromide.

11. Toxicological Information

Eyes Both the vapour and liquid will, be irritating to the eyes.

Skin Both the vapour and liquid will, be irritating to the skin.

LD50 Skin Not available

Ingest Ingestion causes similar effects to vapour inhalation.

LD50 Ingest Rat 2700 mg/kg

Inhalation Inhalation of vapours may cause headache, nausea or vomiting, dizziness, drowsiness and irritation of respiratory tract. High concentration may lead to narcosis and loss of consciousness. Chronic exposure may lead to liver and kidney damage.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

12. Ecological

Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

14. Transport Information

Proper Shipping Name Bromobenzene
UN Number 2514
UN Classification 3 Flammable liquid
Subsidiary Risk None
Flash Point 51.0 °C(Closed cup)
Packing Group III
Transport Category 3
Marine pollutant Yes
ADR Hazard ID 30

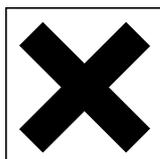


15. Regulatory Information

Labelling Irritant, Dangerous for the Environment.
Classification

Label Symbols

Xi



N



Risk & safety Phrases Flammable. Irritating to skin. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep out of reach of children. Avoid release to the environment, refer to special instructions/safety data sheet.

EEC Number Not available

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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