

MATERIAL SAFETY DATA SHEET

Product Name: Bromoform

CAS No.: 75-25-2

Version: 0

1. Identification

Product Code : 90645
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4
Acute toxicity, Inhalation : Category 3
Skin irritation : Category 2
Eye irritation : Category 2
Chronic aquatic toxicity : Category 2

Label elements**Hazard symbol**

Signal word : Danger
Hazard statement : Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Toxic if inhaled.
Toxic to aquatic life with long lasting effects.
Precautionary statement : Obtain special instructions before use.
Avoid breathing vapours.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/ physician.
Other hazards which do not result in GHS classification : None

MATERIAL SAFETY DATA SHEET

Product Name: Bromoform

CAS No.: 75-25-2

Version: 0

3. Composition/information on ingredients

| Ingredient | CAS No | Percent |
|------------|---------|------------|
| Bromoform | 75-25-2 | NLT- 98.0% |

4. First Aid Measures

| Description of first aid measures | |
|---|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation | : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. |
| Eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Swallowed | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Most important symptoms and effects, both acute and delayed | : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed Treatment | : No data available |

5. Fire fighting measures

| | |
|--|--|
| Extinguishing media | |
| Suitable extinguishing media | : Use extinguishing media appropriate to Surrounding fire conditions. |
| Special hazards arising from the substance or mixture | : Carbon oxides, Hydrogen bromide gas |
| Advice for firefighters | : Wear self contained breathing apparatus for fire fighting if necessary |
| Further information | : No data available |

6. Accidental Release Measures

| | |
|---|--|
| Personal precautions, protective equipment and emergency | : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate |
|---|--|

MATERIAL SAFETY DATA SHEET**Product Name:** Bromoform**CAS No.:** 75-25-2**Version:** 0

- procedures** : ventilation. Evacuate personnel to safe areas.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

7. Handling and Storage

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

- Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Hand protection

- : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

- : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

- : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Colorless liquid
- Odor** : No data available

MATERIAL SAFETY DATA SHEET**Product Name:** Bromoform**CAS No.:** 75-25-2**Version:** 0

| | |
|--|-----------------------------------|
| pH | : No data available |
| Melting point/freezing point | : 5 - 8 °C |
| Initial boiling point and boiling range | : 146 - 150 °C |
| Flash Point | : No data available |
| Vapor pressure | : 6.7 hPa at 20,0 °C |
| Vapor density | : No data available |
| Relative density | : 2.89 g/cm ³ at 25 °C |
| Solubility in water | : No data available |
| Solubility (other) | : No data available |
| Formula | : CHBr ₃ |
| Molecular Weight | : 252.73 g/mol |

10. Stability and Reactivity

| | |
|---|--|
| Reactivity | : No data available |
| Chemical stability | : Stable under recommended storage conditions. Contains the following stabiliser(s): Ethanol (>=1 - <=3 %) |
| Possibility of hazardous reactions | : No data available |
| Conditions to avoid | : No data available |
| Incompatible materials | : Alkali metals |
| Hazardous decomposition products | : No data available |

11. Toxicological Information**Information on toxicological effects**

| | |
|--|---|
| Acute toxicity | : LD50 Oral - rat - 933,0 mg/kg Remarks: Lungs, Thorax, or Respiration:Dyspnea. LC50 Inhalation - Mammal - 12.100 mg/m ³ |
| Skin corrosion/irritation | : No data available |
| Serious eye damage/eye irritation | : No data available |
| Respiratory or skin sensitization | : No data available |
| Germ cell mutagenicity | : No data available |
| Carcinogenicity | : IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Reproductive toxicity | : No data available |
| Specific target organ toxicity - | : No data available |

MATERIAL SAFETY DATA SHEET

Product Name: Bromoform

CAS No.: 75-25-2

Version: 0

single exposure

Specific target organ toxicity - : No data available

repeated exposure

Aspiration hazard : No data available

Potential health effects

Inhalation : No data available

Ingestion : No data available

Skin : No data available

Eyes : No data available

Signs and Symptoms of Exposure : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity : Toxicity to fish: LC50 - other fish - 7 mg/l - 96,0 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 2,9 mg/l - 96,0 h

LC50 - Cyprinodon variegatus (sheepshead minnow) - 7,1 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates:

LC50 - Daphnia magna (Water flea) - 46 mg/l - 48 h

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : Toxic to aquatic life with long lasting effects.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|------------|--------|-------------------------|------------------|-----------------|------------------|
| DOT | 2515 | BROMOFORM | 6.1 | III | Yes |

MATERIAL SAFETY DATA SHEET**Product Name:** Bromoform**CAS No.:** 75-25-2**Version:** 0

| | | | | | |
|-------------|------|-----------|-----|-----|-----|
| IMDG | 2515 | BROMOFORM | 6.1 | III | Yes |
| IATA | 2515 | BROMOFORM | 6.1 | III | Yes |

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :01/08/2014****Version : 0**

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, 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 THIS PRODUCT(S).