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Bromoform CAS No 75-25-2

MATERIAL SAFETY DATA SHEET SDS/MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers Product name : Bromoform

CAS-No. : 75-25-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA

Telephone	:	+91 11 49404040
Email	:	care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity, Inhalation (Category 3) Eye irritation (Category 2) Skin irritation (Category 2) Chronic aquatic toxicity (Category 2) Acute toxicity, Oral (Category 4)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic by inhalation. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram



Signal word	Danger Acre Bolicy - and Berlinstein
Hazard statement(s)	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
Avoid breathing vapours.

P261
Avoid release to the environment.

P273
Avoid release to the environment.

P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311
Call a POISON CENTER or doctor/ physician.

Supplemental Hazard Statements
none

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)
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R-phrase(s) R22 R23 R36/38 R51/53	Harmful if swallowed. Toxic by inhalation. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S28	After contact with skin, wash immediately with plenty of soap and water.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards

Lachrymator.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

•	Synonyms	:	Tribromomethane	
	Formula Molecular Weight	:	CHBr _{3 CHBr} 3 252,73 g/mol	
	Component			Concentration
	Bromoform CAS-No. EC-No. Index-No.		75-25-2 200-854-6 602-007-00-X	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- 4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen bromide gas
- 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- 7.2 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.
- 7.3 Specific end use(s) no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid		
b)	Odour	no data available		
c)	Odour Threshold	no data available		
d)	рН	no data available		
e)	Melting point/freezing point	Melting point/range: 5 - 8 °C - lit.		
f)	Initial boiling point and boiling range	146 - 150 °C - lit.		
g)	Flash point	no data available		
h)	Evaporation rate	no data available		
i)	Flammability (solid, gas)	no data available		
j)	Upper/lower flammability or explosive limits	no data available		
k)	Vapour pressure	6,7 hPa at 20,0 °C		
I)	Vapour density	no data available		
m)	Relative density	2,89 g/cm3 at 20 °C		
n)	Water solubility	no data available		
o)	Partition coefficient: n- octanol/water	no data available		
p)	Auto-ignition temperature	no data available		
q)	Decomposition temperature	no data available		
r)	Viscosity	no data available		
s)	Explosive properties	no data available		
t)	Oxidizing properties	no data available		
Other safety information no data available				

10. STABILITY AND REACTIVITY

10.1 Reactivity no data available

9.2

- 10.2 Chemical stability no data available
- 10.3 Possibility of hazardous reactions no data available
- 10.4 Conditions to avoid no data available
- 10.5 Incompatible materials Alkali metals
- **10.6 Hazardous decomposition products** Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 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/m3

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

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Bromoform)

Reproductive toxicity no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Potential health effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

Signs and Symptoms of Exposure

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

Additional Information

RTECS: PB5600000

12. ECOLOGICAL INFORMATION

12.1 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 LC50 - Daphnia magna (Water flea) - 46 mg/l - 48 h other aquatic invertebrates 12.2 Persistence and degradability aerobic - Exposure time 28 d Biodegradability Result: 0 % - Not biodegradable. 12.3 **Bioaccumulative potential** no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available 12.6 Other adverse effects Toxic to aquatic life with long lasting effects. **DISPOSAL CONSIDERATIONS** 13. 13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION 14.1 **UN number** ADR/RID: 2515 IMDG: 2515 IATA: 2515 14.2 UN proper shipping name ADR/RID: BROMOFORM IMDG: BROMOFORM IATA: Bromoform 14.3 Transport hazard class(es) IMDG: 6.1 IATA: 6.1 ADR/RID: 6.1 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG Marine Pollutant: yes IATA: no 14.6 Special precautions for user

14.6 Special precautions for user no data available

15. REGULATORY INFORMATION

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment no data available

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.