



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

1. IDENTIFICATION:

Product Code : 98048

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Acute toxicity : Category 3

Acute toxicity : Category 3

Acute toxicity : Category 3

Skin irritation : Category 2

Eye irritation : Category 2

Carcinogenicity : Category 1 B

Specific target organ
toxicity - single exposure, : Category 3
Respiratory system

Long-term (chronic) aquatic
hazard : Category 2

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement : Toxic if swallowed, in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause cancer.
Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

	precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response	: IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
1,2-Dibromoethane	106-93-4	NLT 98.0%	Yes

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: Toxic if inhaled. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

5. FIRE FIGHTING MEASURES:

General information : No data available

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam, dry powder or carbon dioxide.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Appropriate engineering****controls** : No data available**Individual protection measures, such as personal protective equipment**

General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear colorless liquid.
Odor	: No data available
Solubility	: No data available
Formula	: $C_2H_4Br_2$
Molecular Weight	: 187.86 g/mol
Specific Gravity	: 2.18 g/mL (25 °C)
pH	: No data available
% Volatiles by volume @ 21C (70F)	: No data available
Boiling Point	: 131 - 132 °C
Melting Point	: 8 - 11 °C
Flash Point	: No data available
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: 72 hPa (55.0 °C)
Evaporation Rate (BuAc=1)	: No data available



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

10. STABILITY AND REACTIVITY:

Reactivity	: No data available
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Hazardous reactions : Violent reactions possible with: Alkali metals Aluminium strong alkalis Light metals magnesium alkali amides Strong oxidizing agents metals Ammonia liquid.
Conditions to avoid	: Heating.
Incompatible materials	: No data available
Hazardous decomposition products	: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Inhalation Product	Acute toxicity estimate Oral - 140 mg/kg (Calculation method) Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapour (Expert judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) LD50 Dermal - Rabbit - 300 mg/kg Remarks: Nutritional and Gross Metabolic:Changes in:Body temperature decrease. Extremely corrosive and destructive to tissue. (RTECS) Acute toxicity estimate Dermal - 300 mg/kg (Calculation method)
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Remarks: Causes skin irritation. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Serious eye damage/eye irritation Product	: Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory or skin sensitization Product	: Local lymph node assay (LLNA) - Mouse Result: Not a skin sensitizer. (OECD Test Guideline 429)
Carcinogenicity Product	: 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. Possible human carcinogen.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available
US. OSHA Specifically Regulated Substances (29	: No data available.



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

CFR 1910.1001-1050

Germ cell mutagenicity

In vivo tests did not show mutagenic effects
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: positive
Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Method: OECD Test Guideline 482
Result: positive
Test Type: gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: positive
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 473
Result: positive
Species: Mouse
Application Route: Intraperitoneal
Method: OECD Test Guideline 478
Result: negative

In vitro Product

: No data available.

Reproductive toxicity
Product

: No data available.

Specific target organ
toxicity - single exposure
Product

: Inhalation - May cause respiratory irritation. - Respiratory Tract Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ
toxicity - repeated
exposure Product

: No data available.

Aspiration hazard Product

: No data available.

Other effects

: None known.

MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	LC50 (Oncorhynchus mykiss (rainbow trout)): 1,13 mg/l End point: mortality Exposure time: 96 h : Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Aquatic invertebrates Product	EC50 (Daphnia magna (Water flea)): 11,61 mg/l End point: Immobilization Exposure time: 48 h : Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes

Chronic hazards to the aquatic environment

Fish Product	NOEC: 5,81 mg/l Exposure time: 28 d : Species: Oryzias latipes : Test Type: flow-through test Analytical monitoring: yes Remarks: (ECHA)
Aquatic invertebrates Product	: No data available.
Toxicity to Aquatic Plants Product:	ErC50 (Pseudokirchneriella subcapitata): 25,94 mg/l Exposure time: 72 h : Test Type: static test : Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes

Persistence and degradability

Biodegradation Product	Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 15 mg/l : Result: Not readily biodegradable. : Biodegradation: 4,2 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes
BOD/COD ratio Product	: No data available.

Bioaccumulative potential



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

Bioconcentration factor (BCF) Product : No data available.
Partition coefficient n-octanol / water (log Kow) : No data available.
Product Mobility in soil : No data available
Other adverse effects : Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging : 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	UN 1605	1,2-Dibromoethane	6.1	II	Yes
IMDG	UN 1605	1,2-Dibromoethane	6.1	II	Yes
IATA	NA	1,2-Dibromoethane	NA	NA	No

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.

MATERIAL SAFETY DATA SHEET

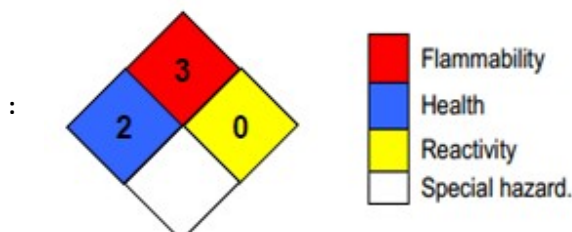
Version :02

PRODUCT NAME: 1,2-DIBROMOETHANE

CAS Number: 106-93-4

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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Version : 02

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