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MATERIAL SAFETY DATA SHEET

CAS Number: 109-65-9

Version:02

PRODUCT NAME: 1-BROMOBUTANE

1. IDENTIFICATION:

Product Code : 91959

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Flammable liquid : Category 2

Skin irritation : Category 2

Eye irritation : Category 2

Specific target organ

toxicity single exposure

Category 3

Chronic aquatic toxicity : Category 2

Labels elements :

Hazard symbol :

Signal word : Danger

Hazard statement Highly flammable liquid and vapor.

: Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

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.



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IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store at ambient temperature in a dry and 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 INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
1-Bromobutane	109-65-9	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.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory

Inhalation : 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

symptoms/enects, acu

and delayed

Indication of immediate medical attention and special treatment needed

: No data available.

system and skin.

5. FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Use extinguishing media appropriate to Surrounding fire conditions.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.



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Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.

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Special protective equipment and precautions for firefighters

Special firefighting procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. 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

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. Do not let product enter drains. Discharge into the environment must be avoided.

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 away from food, drink and animal feeding stuffs. Store at ambient temperature in a dry and well ventilated place.

Keep the container tightly closed, away from heat. Containers which are opened must be

: carefully resealed and kept upright to prevent leakage.

Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

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Control parameters

Appropriate engineering

Handle in accordance with good industrial hygiene and safety practice. Wash hands before

controls breaks and at the end of workday.

Individual protection measures, such as personal protective equipment

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

General information 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.

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 to pale yellow liquid

Odor : No data available.

Solubility : No data available.

Molecular Weight : 137.02 g/mol

Specific Gravity : 1.276 g/cm3 at 25°C

pH : No data available.

% Volatiles by volume @

Hygiene measures

21C (70F)

No data available

Boiling Point : 100 - 104°C

Melting Point : 112°C
Flash Point : 10 °C

Vapor Density (Air=1) : 4.73

Vapor Pressure (mm Hg) : 200 hPa at 50 °C



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53 hPa at 25 °C

Evaporation Rate (BuAc=1) : No data available

10. STABILITY AND REACTIVITY:

Reactivity : No data available

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

: No data available

Conditions to avoid : Heat, sparks, flames. Sunlight.

Incompatible materials : Strong oxidizing agents. Strong bases, Magnesium, Potassium, Sodium/sodium oxides.

Hazardous decomposition

: In the event of fire: see section 5

products

reactions

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation . No data available.

Skin contact : Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD50 Oral - Rat - 2.761 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor.

Behavioral:Ataxia.

Dermal Product : No data available.

Inhalation Product . No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

Serious eye damag

Irritating to eyes.

Respiratory or skin sensitization Product

: No data available

Carcinogenicity Product

: This substance has no evidence of carcinogenic properties

IARC Monographs on the Evaluation of Carcinogenic

: No carcinogenic components identified.



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Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No carcinogenic components identified.

: No carcinogenic components identified.

In vitro Product

No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

Not known.

Specific target organ

toxicity - repeated

None known.

exposure Product

Aspiration hazard Product

: May be harmful if swallowed and enters airways .

Other effects

None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: LC50 - Pimephales promelas (fathead minnow) - 36,7 mg/l - 96,0 h

Aquatic invertebrates

: LC 50 (Water flea (Daphnia magna), 24 h): 10,000 mg/l .

Product

Chronic hazards to the aquatic environment

Fish Product

No data available.

Aquatic invertebrates

No data available.

Product

Toxicity to Aquatic Plants

No data available.

Product:

Persistence and degradability

Biodegradation Product

: Biodegradability Result: 1 % - Not readily biodegradable.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

: No data available on bioaccumulation.



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Partition coefficient n-

octanol / water (log Kow)

Product

Mobility in soil

: No data available.

: No data available

Other adverse effects The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills can have a harmful or damaging

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effect on the environment. Harmful to aquatic life.

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:

DOT	UN No. UN 1126	UN proper shipping name 1-Bromobutane	Hazard Class(es) 3	Packaging group II	Marine Pollutant Yes
IMDG	UN 1126	1-Bromobutane	3	II	Yes
IATA	UN 1126	1-Bromobutane	3	II	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.



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Special hazard.

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16. OTHER INFORMATION:

NFPA Hazard ID

: 2 0 Flammability Health Reactivity

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

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