## 

## ADVENT CHEMBIO PRIVATE LIMITED

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**MATERIAL SAFETY DATA SHEET** 

Version :02

## PRODUCT NAME: 1-BROMOHEXANE (HEXYL BROMIDE) CAS Numb

LAS	Numbe	er: 11	1-25-1	

1. IDENTIFICATION:		
Product Code	91966	
Company Name	ADVENT CHEMBIO PRIVATE LIMITED	
Address	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.	
E-mail	sales@adventchembio.com	
WEBSITE	www.adventchembio.com	
Company Phone Number	+91 77770 84837	

### 2. HAZARDS IDENTIFICATION:

Hazard classification	
Flammable liquids	: Category 3
Skin irritation	: Category 2
Eye irritation	: Category 2
Specific target organ toxicity - single exposure	: Category 3
Labels elements	:
Hazard symbol	
Signal word	: Warning
Hazard statement	<ul> <li>Highly flammable liquid and vapor.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> </ul>
Precautionary statement	
Prevention Response	<ul> <li>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.</li> <li>IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> </ul>
	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.



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	IF SWALLOWED: Imm	ediately call a POISON CENTER or doct	or/physician.	
Storage	closed. Containers wh	nperature in a dry and well ventilat nich are opened must be carefully rese		
Disposal	: Dispose of contents	leakage. 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		
3. COMPOSITION/ INFORM	MATION ON INGRADIENTS:			
Ingredient	CAS Number	Percent	Hazardous	
1-Bromohexane (Hexyl Bromide)	111-25-1	NLT 98.0%	Yes	
4. FIRST AID MEASURES:				
General information	attendance. Call a physician or	ttention if you feel unwell. Show this s poison control center immediately.	Rinse mouth. Do NOT induce	
Inhalation	lungs. Move to fresh air. Ca	occurs, keep head low so that stome II a physician or poison control center iration. If breathing is difficult, give oxy	immediately. If breathing stops,	
Skin contact	Immediately Wash of	f with soap and plenty of water for a s. Get medical attention.	t least 15 minutes. If easy to do,	
Eye contact	Immediately flush wit lenses. Get medical at	h plenty of water for at least 15 minut ttention.	tes. If easy to do, remove contact	
Most important symptoms/effects, acute and delayed	The most important k 2) and/or in section 1	nown symptoms and effects are desc 1	ribed in the labelling (see section	
Indication of immediate medical attention and special treatment needed	: No data available.			
5. FIRE FIGHTING MEASUR	RES:			
General information	: Flammable liquid and	vapor.		
Suitable (and unsuitable) ext	tinguishing media			

Suitable extinguishing media	: Water spray, foam, dry powder or carbon dic	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	:	Avoid water in straight hose stream; will scatter and spread fire.



Conditions for safe storage,

:

including any

incompatibilities

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Specific hazards arising from the chemical Special protective equipmen	<ul> <li>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</li> <li>concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode. Carbon oxides, Hydrogen bromide gas.</li> <li>t and precautions for firefighters</li> </ul>
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 M	EASURES:
Personal precautions, protective equipment and emergency procedures Methods and material for containment and cleaning up Notification Procedures Environmental precautions	<ul> <li>ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).</li> <li>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.</li> <li>Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-</li> <li>brushing and place in container for disposal according to local regulations (see section 13).</li> <li>Keep in suitable, closed containers for disposal.</li> <li>Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.</li> <li>Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do</li> </ul>
	so. Avoid discharge into drains, water courses or onto the ground.
7. HANDLING AND STORAG	jE:
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

gloves/protective clothing/eye

of flammable liquids.

Keep away from food, drink and animal feeding stuffs.

carefully resealed and kept upright to prevent leakage.

Store at ambient temperature in a dry and well ventilated place.

electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective

or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist

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

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



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8. EXPOSURE CONTROLS P	RSONAL PROTECTION:
Control parameters	
Occupational exposure limits	: No data available.
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Individual protection measu	es, such as personal protective equipment
General information	<ul> <li>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.</li> </ul>
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	<ul> <li>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.</li> </ul>

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Clear, colorless to pale yellow liquid.
Odor	:	No data available.
Solubility	:	No data available.
Formula	:	C <sub>6</sub> H <sub>13</sub> Br
Molecular Weight	:	165.07 g/mol
Specific Gravity	:	1.176 - 1.177 g/cm3 at 25°C
рН	:	No data available.
% Volatiles by volume @ 21C (70F)	:	No data available.
Boiling Point	:	154 - 158 °C
Melting Point	:	-85°C
Flash Point	:	57 °C

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Vapor Density (Air=1)	:	5.7
Vapor Pressure (mm Hg)	:	No data available.
Evaporation Rate (BuAc=1)	:	No data available.

10. STABILITY AND REACTIV	/ITY:	
Reactivity	:	No data available.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No data available.
Conditions to avoid	:	Heat, sparks, flames. Sunlight.
Incompatible materials	:	Strong oxidizing agents, Strong Bases. Acetaldehyde. Acids. Chlorine. Ethylene Oxide Hydrogen peroxide (H2O2) Sulfuric acid. Isocyanates. Aluminum.
Hazardous decomposition		Hazardous decomposition products formed under fire conditions Carbon oxides, Hydrogen
products	•	bromide gas.

11. TOXICOLOGICAL INFOR	IMATION:
Information on likely routes	s of exposure
Ingestion	: No data available.
Inhalation	: No data available
Skin contact	: No data available
Eye contact	: No data available
Information on toxicologica	al effects
Acute toxicity (list all possib	ple routes of exposure)
Oral Product	: No data available
Dermal Product	: No data available
Inhalation Product	. No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No data available
Serious eye damage/eye irritation Product	: No data available.
Respiratory or skin sensitization Product	: No data available.



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Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	:	No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	:	No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity	:	No carcinogenic components identified.
In vitro Product	:	No data available.
Reproductive toxicity Product	:	No data available
Specific target organ toxicity - single exposure	:	Not known.
Product Specific target organ toxicity - repeated exposure Product	:	None known.
Aspiration hazard Product	:	No data available.
Other effects	:	None known.

### 12. ECOLOGICAL INFORMATION:

#### Ecotoxicity Acute hazards to the aquatic environment

	-	
Fish Product	:	No data available.
Aquatic invertebrates Product Chronic hazards to the aquat	: ic ei	No data available.
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability	v	
5	•	
<b>Biodegradation Product</b>	:	No data available.
BOD/COD ratio Product	:	No data available.



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Bioaccumulative potential	
Bioconcentration factor (BCF) Product	: No data available on bioaccumulation.
Partition coefficient n- octanol / water (log Kow) Product	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.
13. DISPOSAL CONSIDERAT	'ION:
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.

	UN No.	UN proper shipping	Hazard	Packaging	Marine
		name	Class(es)	group	Pollutant
DOT	UN 1993	1-Bromohexane (Hexyl	3	III	No
		Bromide)			
IMDG	UN 1993	1-Bromohexane (Hexyl	3	III	No
		Bromide)			
ΙΑΤΑ	UN 1993	1-Bromohexane (Hexyl	3	Ш	No
		Bromide)			

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.



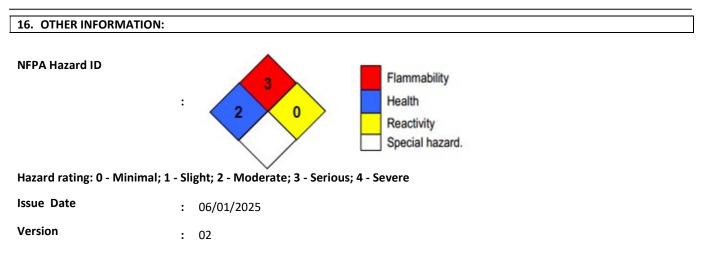
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