



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: ETHYLHEXADECYLDIMETHYLAMMONIUM
BROMIDE**

CAS Number: 124-03-8

1. IDENTIFICATION:

Product Code : 90949

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity : Category 4

Skin irritation : Category 2

Eye irritation : Category 2

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

Labels elements :

Hazard symbol :



Signal word : Warning

Hazard statement

Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Very 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 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.



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: ETHYLHEXADECYLDIMETHYLAMMONIUM
BROMIDE**

CAS Number: 124-03-8

	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	: Preserve in air-tight container under inert atmosphere and store at 2-8°C and away from light & moisture for long term usage.
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
Ethylhexadecyldimethylammonium Bromide	124-03-8	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.
Skin contact	: Get medical attention if symptoms persist.
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	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Indication of immediate medical attention and special treatment needed	: Toxic if inhaled. Irritating to eyes, respiratory system and skin.
	: Symptoms may be delayed. Treat symptomatically.

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.



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: ETHYLHEXADECYLDIMETHYLAMMONIUM
BROMIDE**

CAS Number: 124-03-8

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 : Preserve in air-tight container under inert atmosphere and store at 2-8°C and away from light & moisture for long term usage.

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 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.



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: ETHYLHEXADECYLDIMETHYLAMMONIUM
BROMIDE**

CAS Number: 124-03-8

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	:	White to off-white crystalline hygroscopic powder.
Odor	:	No data available
Solubility	:	No data available
Formula	:	C ₂₀ H ₄₄ BrN
Molecular Weight	:	378.47 g/mol
Specific Gravity	:	No data available
pH	:	No data available
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	No data available
Melting Point	:	No data available
Flash Point	:	No data available
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	:	Material is stable under ambient conditions.
Possibility of hazardous reactions	:	Violent reactions possible with: Oxidizing agents.
Conditions to avoid	:	Avoid moisture.
Incompatible materials	:	No data available
Hazardous decomposition products	:	In the event of fire: see section 5



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Version :02

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CAS Number: 124-03-8

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

Inhalation Product	LD50 Oral - Rat - 500 mg/kg Remarks: (RTECS) Inhalation: No data available Dermal: 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.
Carcinogenicity Product	: No data available
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 CFR 1910.1001-1050)	: No data available.
Germ cell mutagenicity	: No data available.
In vitro Product	: No data available.
Reproductive toxicity Product	: No data available.
Specific target organ toxicity - single exposure Product	: May cause respiratory irritation. - Respiratory system.
Specific target organ toxicity - repeated exposure Product	: Ingestion - May cause damage to organs through prolonged or repeated exposure. - Gastrointestinal tract.
Aspiration hazard Product	: No data available.
Other effects	: None known.



MATERIAL SAFETY DATA SHEET

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

Fish Product	semi-static test LC50 - Danio rerio (zebra fish) - 0,2 mg/l - 96 h (OECD Test Guideline 203) : Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide
Aquatic invertebrates Product	Immobilization EC50 - Daphnia magna (Water flea) - 0,037 mg/l - 48 h (OECD Test Guideline 202) : Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide

Chronic hazards to the aquatic environment

Fish Product	: No data available.
Aquatic invertebrates Product	NOEC - Daphnia - 0,023 mg/l - 21 d (OECD Test Guideline 211) : Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide
Toxicity to Aquatic Plants Product:	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 0,00411 mg/l - 72 h (OECD Test Guideline 201) Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide : static test EC10 - Pseudokirchneriella subcapitata (green algae) - 0,00227 mg/l - 72 h (OECD Test Guideline 201) Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide

Persistence and degradability

Biodegradation Product	aerobic Chemical oxygen demand - Exposure time 11 d Result: 100 % - Readily biodegradable. : (OECD Test Guideline 301E) Remarks: The value is given in analogy to the following substances: N-Cetyl-N'N'N'-trimethylammonium bromide.
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BOD/COD ratio Product	: No data available.
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Bioaccumulative potential

Bioconcentration factor (BCF) Product	: No data available.
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Partition coefficient n-octanol / water (log Kow) Product	: No data available.
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Mobility in soil	: No data available
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Other adverse effects	: Discharge into the environment must be avoided.
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CAS Number: 124-03-8

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 3077	Ethylhexadecyldimethylammonium Bromide	9	III	Yes
IMDG	UN 3077	Ethylhexadecyldimethylammonium Bromide	9	III	Yes
IATA	UN 3077	Ethylhexadecyldimethylammonium Bromide	9	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.

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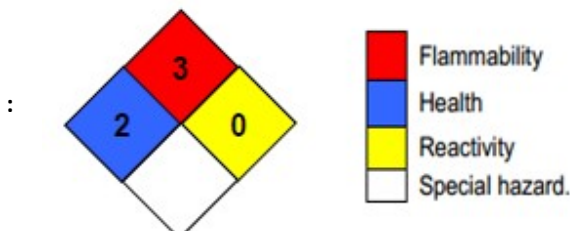
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16. OTHER INFORMATION:

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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