

Page 1 of 7

Product Name: Tetrabutylammonium bromide

CAS No.: 1643-19-2

Version: 0

Product Code	: 90572			
Company Name	: Adven	t Chembio Private Limited		
Address			AL AREA, THANE-BELAPUR	
E-mail		), RABALE, NAVI MUMI adventchembio.com	3AI - 400 701.	
WEBSITE		adventchembio.com		
Company Phone Number	: 022-27	022-27690837		
2. Composition/Information	on Ingredient	ts		
Ingredient		CAS No	Percent	
TETRABUTYLAMMONIUM	BROMIDE	1643-19-2	09-100%	
Health Rating Flammability Rating Reactivity Rating	: (	2 - Moderate 0 - None 0 - None		
Contact Rating Potential Health Effects Inhalation Ingestion	: : :	3 - Severe Severe irritation or burns o None identified.	f mucous membranes.	
Potential Health Effects Inhalation Ingestion Skin Contact	: S : 1 : 1	Severe irritation or burns o None identified. Irritation.	f mucous membranes.	
Potential Health Effects Inhalation Ingestion Skin Contact Eye Contact	: ! : ] : ] : ]	Severe irritation or burns o None identified.	f mucous membranes.	
Potential Health Effects Inhalation Ingestion	: ! : ] : ] : ] : ]	Severe irritation or burns o None identified. Irritation. Irritation.	f mucous membranes.	
Potential Health Effects Inhalation Ingestion Skin Contact Eye Contact Chronic Exposure Aggravation of Pre-existing	: ! : ] : ] : ] : ]	Severe irritation or burns o None identified. Irritation. Irritation. No information found.	f mucous membranes.	
Potential Health Effects Inhalation Ingestion Skin Contact Eye Contact Chronic Exposure Aggravation of Pre-existing Conditions	: 2	Severe irritation or burns o None identified. Irritation. Irritation. No information found. No information found Get medical advice/attentio	on if you feel unwell. If medical advice is ainer or label at hand. Show this safety	
Potential Health Effects Inhalation Ingestion Skin Contact Eye Contact Chronic Exposure Aggravation of Pre-existing Conditions 4. First Aid Measures	: ! : ] : ] : ] : ] : ]	Severe irritation or burns o None identified. Irritation. Irritation. No information found. No information found Get medical advice/attention needed, have product conta data sheet to the doctor in a Remove to fresh air. If not	on if you feel unwell. If medical advice is ainer or label at hand. Show this safety attendance. breathing, give artificial respiration. If	
Potential Health Effects Inhalation Ingestion Skin Contact Eye Contact Chronic Exposure Aggravation of Pre-existing Conditions 4. First Aid Measures General information	: 2 : ] : ] : ] : ] : ]	Severe irritation or burns o None identified. Irritation. Irritation. No information found. No information found Get medical advice/attention needed, have product conta data sheet to the doctor in a Remove to fresh air. If not breathing is difficult, give	on if you feel unwell. If medical advice is ainer or label at hand. Show this safety attendance.	

CHEMBIO PVT. LTD.	MATERIAL SA	FETY DATA SHEET	Page 2 of 7
Product Name: Tetrabutylammonium	bromide	<b>CAS No.:</b> 1643-19-2	Version: 0
Skin Contact Eye contact	minutes. Remov before reuse. Th attention if irrita Immediately flu	sh eyes with plenty of water for a lower eyelids occasionally. Get	es. Wash clothing e. Get medical tt least 15 minutes,

5. Fire fighting measures		
Fire	: Not considered to be a fire hazard. Irritating and toxic ammonia gas	٦
	may form in fires	
Explosion	: None identified.	
Fire Extinguishing Media	: Water, dry chemical, foam or carbon dioxide.	
Special Information	: Firefighters should wear proper protective equipment and self- contained breathing apparatus with full face piece operated in positive pressure mode.	

6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	: Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and material for containment and cleaning up	: Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



Page 3 of 7

Product Name: Tetrabutylammonium bromide

8. Exposure Controls Personal Protection

CAS No.: 1643-19-2

Version: 0

Precautions for safe handling	: Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

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Control parameters	
Occupational exposure limits	: None established.
Ventilation System	: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
Personal Respirators (NIOSH	: For conditions of use where exposure to the substance is apparent and
Approved):	engineering controls are not feasble, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection	: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:	: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Other	: Wear suitable protective clothing.
<b>Respiratory protection</b>	: In case of inadequate ventilation use suitable respirator.
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.

### 9. Physical and Chemical Properties

Appearance	:	White Crystalline solid.
Odor	:	No information found.
рН	:	No information found.
Melting point/freezing point	:	No information found.
Initial boiling point and boiling	:	No information found.



Page 4 of 7

Product Name: Tetrabutylammonium bromide

**CAS No.:** 1643-19-2

Version: 0

range		
Flash Point	:	No information found.
Vapor pressure	:	Not applicable
Vapor density	:	Not applicable
Relative density	:	No information found.
Solubility in water	:	Appreciable (> 10%)
Solubility (other)	:	No data available.
Formula	:	NH4HCO3
Molecular Weight	:	322.38 g/mol

#### 10. Stability and Reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	No information found.
Incompatible materials	:	No information found.
Hazardous decomposition products	:	Amines, hydrogen bromide.

#### 11. Toxicological Information

Information on likely routes of expo	ocuro		
Ingestion	:	No information found.	
Inhalation	:	No information found.	
Skin contact	:	No information found.	
Eye contact	:	No information found.	
Information on toxicological effects			
Acute toxicity (list all possible routes of exposure)			
Oral Product	:	No information found.	
Dermal Product	:	No information found.	
Inhalation Product	:	No information found.	
Repeated dose toxicity Product	:	No information found.	
Skin corrosion/irritation Product	:	No information found.	



Product Name: Tetrabutylammonium bromide

Version: 0

Page 5 of 7

Serious eye damage/eye irritation Product	: No information found.
Respiratory or skin sensitization Product	: No information found.
Carcinogenicity Product IARC Monographs on the Evaluation of Carcinogenic Risks	<ul><li>This substance has no evidence of carcinogenic properties.</li><li>No carcinogenic components identified.</li></ul>
to Humans DIOXANE US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050	: No carcinogenic components identified.
Germ cell mutagenicity In vitro Product	• No mutagonia components identified
In vitro Product In vivo Product Reproductive toxicity Product Specific target organ toxicity - single exposure Product	<ul> <li>No mutagenic components identified.</li> <li>No mutagenic components identified.</li> <li>No components toxic to reproduction.</li> <li>No information found.</li> </ul>
Specific target organ toxicity - repeated exposure Product	: No information found.
Aspiration hazard Product Other effects	<ul><li>No information found.</li><li>No information found.</li></ul>

#### 12. Ecological Information

Ecotoxicity Acute hazards to the aquatic environment	mor	<b></b>				
Fish Product	:	No information found				
Aquatic invertebrates Product	:	No information found				
Chronic hazards to the aquatic environment :						
Fish Product	:	No information found				
Aquatic invertebrates Product	:	No information found				
Toxicity to Aquatic Plants Product:	:	No information found				
Persistence and degradability						
<b>Biodegradation Product</b>	:	No information found				
BOD/COD ratio Product	:	No information found				
<b>Bioaccumulative potential</b> <b>Bioconcentration factor (BCF)</b>	:	No information found				



Page 6 of 7

Version: 0

Product Name: Tetrabutylammonium bromide

CAS No.: 1643-19-2

Product Partition coefficient n-octanol / water (log Kow) Product Mobility in soil		No information found	
		No information found	
Other adverse effects	:	No information found	
13. Disposal consideration			
Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. 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.	
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	Not regulated							
IMDG	Not regulated							
ΙΑΤΑ			Not regulated					

#### 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.



Page 7 of 7

Product Name: Tetrabutylammonium bromide

CAS No.: 1643-19-2

Version: 0

16. Other Information

Issue Date :01/08/2014

Version :0

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