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Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
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TETRA BUTYL AMMONIUM BROMIDE

1. Product Identification

Synonyms: Tetra-n-butyl ammonium bromide , TBAB

CAS No.: 1643-19-2

Molecular Weight: 322.37

Chemical Formula: $C_{16}H_{36}BrN$

Product Codes: 37152 , 37153

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Tetra butyl ammonium bromide	1643-19-2	> 99

3. Hazards Identification

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be a explosion hazard

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available ; Upper: Not available.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.



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6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

7. Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation.

Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an Eye wash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tetrabutyl ammonium bromide	none listed	none listed	none listed

OSHA Vacated PELs: Tetrabutyl ammonium bromide : No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. Physical and Chemical Properties

Physical State	:	Crystalline powder
Appearance	:	White to light cream
Odor	:	Weak odor - amine-like
pH	:	Not available.
Vapor Pressure	:	Not available.
Vapor Density	:	Not available.
Evaporation Rate	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	Not available.
Freezing/Melting Point	:	100 - 104 deg C
Decomposition Temperature	:	Not available.
Solubility	:	600 g/L @ 20°C
Specific Gravity/Density	:	1.15 g/cm ³
Molecular Formula	:	C ₁₆ H ₃₆ BrN
Molecular Weight	:	322.37

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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10. Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. **Hygroscopic:** absorbs moisture or water from the air.

Conditions to Avoid: Dust generation, moisture, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen bromide, amines.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Information on toxicological effects

Toxicity information : The product has been not fully tested.

Acute toxicity

- **Inhalation :** Based on available data, the classification criteria are not met.

- **Dermal :** Based on available data, the classification criteria are not met.

- **Ingestion :** Based on available data, the classification criteria are not met.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization

Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other Information

Product Use:

Laboratory Reagent.

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