



## Section 1 - Chemical Product and Company Identification

**Product Name** Cetyltrimethyl Ammonium Bromide (CTAB) extrapure AR, ExiPlus, Multi-Compendial, 99%  
**Product Code** 59771  
**CAS No** 57-09-0  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
57-09-0	Hexadecyltrimethyl Ammonium Bromide	<=100%	200-311-3

## Section 3 - Hazards Identification

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. Very toxic to aquatic organisms.

### Potential Health Effects

**Eye:** Causes serious eye damage. May cause respiratory irritation.  
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin:** Harmful if swallowed. Causes skin irritation.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation. Inhalation of vapors will cause coughing or breathing difficulty.

**Chronic:** Possible risk of irreversible effects.

## Section 4 - First Aid Measures

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin:** Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** Get medical aid immediately. Wash mouth out with water.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**Notes to Physician:**

## Section 5 - Fire Fighting Measures

**General Information:** Wear self contained breathing apparatus for fire fighting if necessary. .

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Section 6 - Accidental Release Measures



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**General Information:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for**

**containment and cleaning up :** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. .

## Section 7 - Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection

**Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Control / Personal Protection

**Respiratory protection :** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection :** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection :** Face shield and safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at . the end of workday.

## Section 9 - Physical and Chemical Properties

**Physical State:** solid

**Melting Point:** 249 - 253 deg C

**Molecular Formula:** C<sub>19</sub>H<sub>42</sub>BrN

**Molecular Weight:** 364,45 g/mol

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** N.A .

**Incompatibilities with**

**Other Materials :** Strong oxidizing agents.

**Hazardous Decomposition**

**Products :** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide gas

**Hazardous Polymerization :** Will not occur.



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## Section 11 - Toxicological Information

### Acute toxicity

LD50 Oral - rat - 410 mg/kg

### Skin corrosion/irritation

### Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or

### Specific target organ toxicity

#### - single exposure

: Inhalation - May cause respiratory irritation.

### Specific target organ toxicity

### Potential health effects

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

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12 - Ecological Information

Toxicity to fish LC50 - Danio rerio (zebra fish) - 0,3 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 0,03 mg/l - 48 h

### Persistence and degradability

Biodegradability Biotic/Aerobic

Result: 100 % - Readily biodegradable..

### Other adverse effects

Very toxic to aquatic organisms.

## Section 13 - Disposal Considerations

### Product :

Observe all federal, state, and local environmental regulations.

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging :** Dispose of as unused product

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cetrimonium bromide)	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cetrimonium bromide)	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cetrimonium bromide)
<b>Hazard Class:</b>	9	9	9
<b>UN Number:</b>	3077	3077	3077
<b>Packing Group:</b>	III	III	III



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# Safety Data Sheet

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## **Section 15 - Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.