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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>Tetraheptylammonium bromide</b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identification:****Product Description:** Tetraheptylammonium bromide**Synonyms:** No data available**CAS-No:** 4368-51-8**EC-No.:** 224-459-3**Molecular Formula:** C<sub>28</sub>H<sub>60</sub>BrN**REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacturing of substance**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad,  
Email: [info@finarchemicals.com](mailto:info@finarchemicals.com)  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety@finarchemicals.com](mailto:safety@finarchemicals.com); [info@finarchemicals.com](mailto:info@finarchemicals.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2. Label Elements:****Labeling according to Regulation (EC) No 1272/2008****Pictogram****Signal word:**      **Warning****Hazard statement(s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements: None

**2.3. Other Hazards:**

None

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.1. Substances:** Tetraheptylammonium bromide

**3.2. Mixtures:**

<b>Component</b>	<b>CAS-No</b>	<b>EC-No.</b>	<b>Weight %</b>
Tetraheptylammonium bromide	4368-51-8	224-459-3	99

### **SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures:**

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention.

- **If swallowed**

Do not induce vomiting, Get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3. Indication of any immediate medical attention and special treatment needed:**

No data available

### **SECTION 5: FIREFIGHTING MEASURES**

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**5.1. Extinguishing media:**

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

**5.2. Special hazards arising from the substance or mixture:**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide gas.

**5.3. Advice for firefighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further Information:**

No data available

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**6.2. Environmental precautions:**

Do not let product enter drains.

**6.3. Methods and material for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections:**

For disposal see Sections 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling:**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation.

Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

**7.2. Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1. Control parameters:****Components with workplace control parameters****8.2. Exposure Controls:****Appropriate Engineering Controls:**

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

**Personal Protective Equipment:**

- **Eye & Face Protection-**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Hand Protection -**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact: -

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact: -

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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- **Other Protective equipment-**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- **Respiratory Protection-**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Environmental Exposure Controls-**

Do not let product enter drains.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### **9.1. Information on basic physical and chemical properties:**

- **Appearance:** white
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** No data available
- **Melting Point:** 89 - 91 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Vapor Density:** No data available
- **Specific Gravity:** No data available
- **Auto-Ignition Temperature:** No data available
- **Decomposition Temperature:** No data available
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Dissociation constant:** No data available
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available

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- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Water Solubility:** No data available

### 9.2. Other information:

- **Molecular Formula:** C<sub>28</sub>H<sub>60</sub>BrN
- **Molecular Weight:** 490.69 g/mol

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity: -

No data available

### 10.2. Chemical stability:

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions:

No data available

### 10.4. Conditions to avoid:

Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

### 10.5. Incompatible materials:

Strong oxidizing agents.

### 10.6. Hazardous decomposition products:

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen halides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute toxicity

No data available

#### Skin irritation

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No data available

**Eye irritation**

No data available

**Sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Further Information:**

RTECS: Not available

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

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:****Toxicity to fish**

No data available

**Toxicity to daphnia and other aquatic invertebrates**

No data available



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**Toxicity to algae**

No data available

**12.2 Persistence and degradability:**

No data available

**12.3 Bioaccumulate potential:**

No data available

**12.4 Mobility in soil:**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects:**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

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**SECTION 14: Transport information**

	<b>Land transport (ADR/RID)</b>	<b>Air transport (IATA)</b>	<b>Sea transport (IMDG)</b>
<b>14.1 UN number</b>	-		
<b>14.2 Proper shipping name</b>	Not dangerous goods		
<b>14.3 Class</b>	-		
<b>14.4 Packing group</b>	-		
<b>14.5 Environmentally hazardous</b>	-		
<b>14.6 Special precautions for user</b>	-		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			
Not Relevant			

**SECTION 15: Regulatory information**

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

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

International Chemical Weapons Convention : Neither banned nor restricted  
(CWC) Schedules of Toxic Chemicals and Precursors

Restrictions on the marketing and use of certain : Neither banned nor restricted  
dangerous substances and preparations

Regulation (EC) No 649/2012 of the European : Neither banned nor restricted  
Parliament and the Council concerning the  
export and import of dangerous chemicals

Candidate List of Substances of Very High : Neither banned nor restricted  
Concern for Authorisation

**15.2 Chemical safety assessment:**

For this product a chemical safety assessment was not carried out.

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**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Training advice**

Provide adequate information, instruction and training for operators.

**References:** Not available**Created:** 18/06/2021

- **Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.