MATERIAL SAFETY DATA SHEET
BENZYLTRIMETHYLAMMONIUM HYDROXIDE,
40% IN METHANOL

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Benzyltrimethylammonium Hydroxide, 40% in Methanol
Synonyms: None
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
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Fax : +91 22 2687 8241
Website : www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-85-6</td>
<td>Benzyltrimethylammonium</td>
<td>~40%</td>
<td>202-895-5</td>
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<tr>
<td></td>
<td>Hydroxide</td>
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3 - HAZARDS IDENTIFICATION

Special Indication Of Hazards
To Humans And The Environment: Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Causes burns.
Toxic: Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4 - FIRST AID MEASURES

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

5 - FIRE FIGHTING MEASURES

Extinguishing Media Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.
Specific Hazard(s): Emits toxic fumes under fire conditions.
Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

Special Protective Equipment For Firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - ACCIDENTAL RELEASE MEASURES

**Personal Precaution Procedures**
**To Be Followed In Case Of Leak Or Spill:**
**Procedure(S) Of Personal Precaution(S):**
**Methods For Cleaning Up:**
Evacuate area.

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 – HANDLING AND STORAGE

**Handling:**
**Directions for Safe Handling:** Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Storage:**
Keep tightly closed. Keep away from heat, sparks, and open flame.

**Special Requirements:**
Hygroscopic.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:**
Safety shower and eye bath. Use only in a chemical fume hood. Use nonsparking tools.

**General Hygiene Measures:**
Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Personal Protective Equipment**
**Respiratory Protection:**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**Hand Protection:**
Compatible chemical-resistant gloves.

**Eye Protection:**
Chemical safety goggles

**Special Protective Measures:**
Faceshield (8-inch minimum).

9 - PHYSICAL AND CHEMICAL PROPERTIES
**Physical State:** Solid

**Molecular Formula:** C_{10}H_{17}NO

**Molecular Weight:** 167.25

### 10 - STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides.

**Hazardous Polymerization:** Will not occur

### 11 - TOXICOLOGICAL INFORMATION

**Signs And Symptoms Of Exposure:** Warning: contains methanol. May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**Route Of Exposure**

**Skin Contact:** Causes burns.

**Skin Absorption:** Toxic if absorbed through skin.

**Eye Contact:** Causes burns.

**Inhalation:** Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Toxic if inhaled.

**Ingestion:** Toxic if swallowed.

**Target Organ Information:** Kidneys. Eyes.

### 12 - ECOLOGICAL INFORMATION

No data available.

### 13 - DISPOSAL CONSIDERATIONS

**Substance Disposal:** 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. Observe all federal, state, and local environmental regulations.

### 14 - TRANSPORT INFORMATION

**Shipping Name:** Non-hazardous

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<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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<tbody>
<tr>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
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</table>
Classification And Labeling According To Eu Directives

Indication Of Danger: F-T Highly Flammable. Toxic.


S-Phrases: 16-26-36/37/39-46 Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. If swallowed, seek medical advice immediately and show this container or label.

SISCO RESEARCH LABORATORIES 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.