1. IDENTIFICATION

Product name: Tetrabutylammonium Hydroxide (10% in Water)
Product code: T0955
Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
TCI America
9211 N. Harborgate Street
Portland, OR 97203 U.S.A.
Telephone: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
e-mail: sales-US@TCIchemicals.com
www.TCIchemicals.com

Emergency telephone number:
Chemical Emergencies: TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies: Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security
+1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
Eye Damage/Irritation [Category 1]
WHMIS 2015:
Skin Corrosion/Irritation [Category 1B]
Signal word: Danger!
Hazard Statement(s):
Causes severe skin burns and eye damage

Pictogram(s) or Symbol(s):

Precautionary Statement(s):
[Prevention]
Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response]
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

[Storage]
Store locked up.

[Disposal]
Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:
[HNOC]
None.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture:** Mixture  
**Components:** Tetrabutylammonium Hydroxide (10% in Water)  
**Percent:** ..  
**CAS RN:** 2052-49-5  
**Molecular Weight:** 259.48  
**Chemical Formula:** C_{16}H_{37}NO  
**Hazardous ingredient(s):** Tetrabutylammonium (10%)  
**Water (90%)**  
**Synonyms:** TBAOH (10% in Water)

### 4. FIRST-AID MEASURES

**Description of first aid measures**
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
- **Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- **Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

**Symptoms/effects:**
- **Acute:** Pain. Redness.
- **Delayed:** No data available

**Indication of any immediate medical attention:** Not available.

**Notes to physician:** No data available

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**Specific hazards arising from the chemical:** Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

**Hazardous combustion products:** These products include: Carbon oxides Nitrogen oxides

**Other specific hazards:** Closed containers may explode from heat of a fire.

**Advice for firefighters:** Wear self-contained breathing apparatus if possible.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**
- **Storage conditions:** Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.
- **Packaging material:** Comply with laws.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Appropriate engineering controls:** Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

**Personal protective equipment**

- **Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
- **Eye protection:** Impervious protective clothing. A face-shield, if the situation requires.
- **Skin and body protection:** Impervious gloves. A face-shield, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state (20°C)</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Clear</td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless - Very pale yellow</td>
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<tr>
<td>Odour</td>
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<tr>
<td>Odour threshold</td>
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<tr>
<td>Melting point/freezing point</td>
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<tr>
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<td>No data available</td>
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<tr>
<td>Kinematic viscosity</td>
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<tr>
<td>Log Pow</td>
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<tr>
<td>Flash point</td>
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</tr>
<tr>
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</tr>
<tr>
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10. STABILITY AND REACTIVITY

- **Reactivity:** No data available
- **Chemical stability:** Stable under proper conditions.
- **Possibility of hazardous reactions:** No special reactivity has been reported.
- **Incompatible materials:** Oxidizing agents, Acids
- **Hazardous decomposition products:** Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
11. TOXICOLOGICAL INFORMATION

RTECS Number: BS5425000

Acute Toxicity:
scu-mus LDLo: 19 mg/kg

Skin corrosion/irritation:
No data available

Serious eye damage/irritation:
No data available

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
No data available

Carcinogenicity:
No data available

Target organ(s):
No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: No data available
Bioaccumulative potential (BCF): No data available
Mobility in soil
Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM^3/mol): No data available

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION

DOT (US)
UN number: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s
Class or Division: 8 Corrosive material
Packing Group: II

IATA
UN number: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s
Class or Division: 8 Corrosive material
Packing Group: II

IMDG
UN number: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s
Class or Division: 8 Corrosive material
Packing Group: II

EmS number: F-A, S-B

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):
This product is on the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations
CERCLA Hazardous substance and Reportable Quantity:
   SARA 313: Not Listed
   SARA 302: Not Listed

State Regulations
State Right-to-Know
   Massachusetts Not Listed
   New Jersey Not Listed
   Pennsylvania Not Listed
California Proposition 65: Not Listed

Other Information
NFPA Rating:
   Health: 3
   Flammability: 0
   Instability: 0

HMIS Classification:
   Health: 3
   Flammability: 0
   Physical: 0

International Inventories
Canada: DSL On DSL
EC-No: 218-147-6

16. OTHER INFORMATION

Revision date: 07/06/2018
Revision number:
TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.