

SAFETY DATA SHEET (SDS)

TBAOH

01. Product and Company Identification

Product Identifier:

Trade Name: Tetrabutylammonium Hydroxide
Chemical Name: Tetrabutylammonium Hydroxide, TBAOH
Catalog Number: 35071750, 35071709
Part of Kits: 35070303, 35070401, 35070001
Use of chemical: Laboratory chemical

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
 180 Heartland Blvd., Edgewood, NY 11717
 Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Flammable liquids (Category 2)
 Acute toxicity, Oral (Category 3)
 Acute toxicity, Inhalation (Category 3)
 Acute toxicity, Dermal (Category 3)
 Skin corrosion (Category 1B)
 Serious eye damage (Category 1)
 Specific target organ toxicity - single exposure (Category 1)

Label elements:

Hazard pictograms



Flammable Poison Health hazard Corrosive

Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.
 H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
 H314 Causes severe skin burns and eye damage.
 H370 Causes damage to organs.

Precautionary statements:

P210 Keep away from heat.
 P233 Keep container tightly closed.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P283 Wear fire/ flame resistant/ retardant clothing.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 + P310 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 physician.
 P361 Remove/ Take off immediately all contaminated clothing.

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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	3
FIRE	3
REACTIVITY	0

Health = 3

Fire = 3

Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Mixture

CAS No. Description : TBAOH: 2052-49-5, Methanol: 67-56-1

Formula : TBAOH, C₁₆H₃₇NO, 25% solution in Methanol

04. First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Rinse mouth with water. Seek medical attention.

Skin Contact: Remove contaminated clothing. Wash immediately with soap and water. Seek medical attention immediately.

Eye Contact: Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention immediately.

05. Firefighting measures

Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus. Use water spray to cool unopened containers.

Unusual Fire and Explosion Hazards: Carbon oxides, Nitrogen oxides (NO_x)

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06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions:

Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations.

Waste Disposal Method:

Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic

Further information about storage conditions: Keep container upright to prevent leakage.

08. Exposure controls/ personal protection

Exposure Controls:

Control parameters:

Components with limit values that require monitoring at the workplace:

67-56-2 Methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Long-term value: 260 mg/m³, 200 ppm

TLV Short-term value: 325 mg/m³, 250 ppm

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes, skin, and clothing.

Eye Protection:



Tightly sealed safety glasses or face shield.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

Protection of Hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.

Respiratory Protection: If the exposure limit is exceeded use NIOSH approved and tested full-face respirator that is independent of circulating air.



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Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.

09. Physical and chemical properties

Appearance:

Form: Liquid

Color: Colorless

Odor: Slight amine and alcohol

pH: >13

Melting Point: N/A

Boiling Point: 65°C (149 °F)

Flash Point: 11 °C (52 °F)

Ignition temperature: 470 °C (878 °F)

Explosion limits: Lower: N/A

Upper: N/A

Vapor Pressure @ 20°C: 97mm

Specific Gravity @ 20°C (68°F): 0.80

Vapor Density: N/A

Percent Volatile: N/A

Evaporation Rate: N/A

Flammable Limits in air % by volume: Lel: 6.7%

Uel: 36%

Solubility in/ Miscibility with Water@25°C: Miscible

10. Stability and reactivity

Stability: Stable

Incompatibility: Acids, Oxidizing agents, Alkali metals, Strong acids, Acid chlorides, Acid anhydrides, Reducing agents

Conditions to Avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: In fire conditions: Carbon monoxide and Nitrogen oxides

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

No data available

Potential health effects:

On the skin: Causes skin irritation.

On the eye: Causes serious eye damage.

Inhalation: May cause irritation to respiratory tract.

Ingestion: May be harmful if swallowed, poison.

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12. Ecological information

Toxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No data available.

13. Disposal considerations**Waste treatment methods****Product:**

Dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information**UN Number:**

2924

UN proper shipping name:

Flammable liquids, corrosive, n.o.s. (Methanol, Tetrabutylammonium hydroxide)

Transport hazard class(es):

3 (8)

Packing group:

II

Environmental hazards:

None

Special precautions

None

15. Regulatory Information**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

The following components are subject to reporting levels established by SARA Title III, Section 313: Methanol CAS-No. 67-56-1 Revision Date 2007-07-01

SARA 311/312 Hazards:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

16. Other Information**Revision B, June 2015**

TBAOH

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