Material Safety Data Sheet  
according to ANSI Z400.1-2004

TBA-HCO3-Solution 0.075M  
Product code: 808.0000.6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier  
TBA-HCO3-Solution 0.075M

Further trade names  
Tetrabutylammonium hydrogen carbonate solution; Tetrabutylammonium bicarbonate

Chemical characterization (Mixture)

CAS No.: 17351-62-1

Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds  
Biomedizinische Forschungsreagenzien GmbH
Street: Heinrich-Gläserstraße 10-14  
Place: D-01454 Radeberg
Telephone: +49 3528 4041 60  
Telefax: +49 3528 4041 65
Internet: http://www.abx.de

Emergency telephone: +49 3528 4041 60

SECTION 2: Hazards identification

Route(s) of Entry

Signs and Symptoms of Exposure

Carcinogenicity (NTP):
Carcinogenicity (IARC):
Carcinogenicity (OSHA):

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>ethanol, ethyl alcohol</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>147741-30-8</td>
<td>Tetrabutylammonium hydroxide 30-hydrate</td>
<td>5 - 10 %</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

Description of first aid measures

After inhalation  
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. Medical advice absolutely required!

After contact with skin  
Take off immediately all contaminated clothing, including underwear and shoes. After contact with skin, wash immediately with plenty of water and soap. Medical advice absolutely required!

After contact with eyes  
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding
After ingestion
Do not induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Medical treatment necessary.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
Water spray. alcohol resistant foam. Carbon dioxide (CO2). Dry extinguishing powder.

Special hazards arising from the substance or mixture

Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Environmental precautions
Do not empty into drains or the aquatic environment.

SECTION 7: Handling and storage

Precautions for safe handling

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions
storage temperature:
of °C: 2
up to °C: 8

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Components</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fib/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>1000</td>
<td>1900</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td>Ethyl alcohol (Ethanol)</td>
<td>1000</td>
<td>1900</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
</tbody>
</table>

Exposure controls

Protective and hygiene measures
Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sneeze at the workplace.

Hand protection
Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

Eye protection
Tightly sealed safety glasses.
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Skin protection
Lab apron. Chemical resistant safety shoes.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties
Form: liquid
Color: colourless clear

Test method
pH-Value: 8-10

Changes in the physical state
Solvent content: 7.60 %, water: 86.60 %

SECTION 10: Stability and reactivity

Stability:
Possibility of Hazardous Reactions:
Incompatible materials
Oxidizing agents, strong.

SECTION 11: Toxicological information

Information on toxicological effects
Further information
No information available.

SECTION 12: Ecological information

Further information
There are no data available on the mixture itself.

SECTION 13: Disposal considerations

Waste treatment methods
Advice on disposal
Consult the local waste disposal expert about waste disposal.

SECTION 14: Transport information

Other applicable information
Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

U.S. Regulations

SECTION 16: Other information

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)