

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**TBA-HCO<sub>3</sub>-Solution 0.075M**

Print date: 06.07.2012

Product code: 808.0000.6

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**TBA-HCO<sub>3</sub>-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

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**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**

CAS No.	Components	Quantity
64-17-5	ethanol, ethyl alcohol	5 - 10 %
147741-30-8	Tetrabutylammonium hydroxide 30-hydrate	5 - 10 %

**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

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eyelids apart. Subsequently consult an ophthalmologist.

### 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 (CO<sub>2</sub>). Dry extinguishing powder.

### Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

### Advice for firefighters

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

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Guide people to safety.

### Environmental precautions

Do not empty into drains or the aquatic environment.

## SECTION 7: Handling and storage

### Precautions for safe handling

### Conditions for safe storage, including any incompatibilities

#### 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

CAS No.	Components	ppm	mg/m <sup>3</sup>	fib/cc	Category	Origin
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL
	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	PEL

### 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.)*