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## Envure™ - 813 Benzyltrimethylammonium hydroxide, 20% Aq

Issuing Date 25-Feb-2010

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Revision Number: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	Envure™ - 813 Benzyltrimethylammonium hydroxide, 20% Aq
<b>Synonyms</b>	BTMAOH 20
<b>Product code</b>	813
<b>UN-No</b>	1719
<b>Recommended Use</b>	For professional and industrial installation and use only, Catalyst, Chemical intermediate
<b>Contact Manufacturer</b>	<b>Supplier</b>
• SACHEM Americas 821 Woodward St Austin, Texas 78704 Tel: 512-421-4900 Fax: 512-445-5066	SACHEM Americas 821 Woodward St Austin, Texas 78704 Tel: 512-421-4900 Fax: 512-445-5066
• SACHEM Americas 2311 Pipeline Road Cleburne, Texas 76031 Tel: 817-202-3200 Fax: 817-641-5637	
<b>Emergency Telephone Number</b>	• 817-202-3200 Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### DANGER!

#### Emergency Overview

Corrosive

Harmful by inhalation, in contact with skin and if swallowed  
Causes severe caustic burns to skin and eyes

**Appearance** Colorless, Light yellow.

**Physical State** Liquid.

**Odor** Slight, Amines

#### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Potential Health Effects

##### Principle Routes of Exposure

Eye contact, Skin contact, Inhalation.

##### Acute Effects

###### Eyes

Corrosive to the eyes and may cause severe damage including blindness. Avoid contact with eyes.

###### Skin

Corrosive. Causes burns. Avoid contact with skin.

###### Inhalation

Corrosive. Avoid breathing vapors or mists. Causes burns.

###### Ingestion

Corrosive. Can burn mouth, throat, and stomach.

##### Chronic Effects

###### Chronic Toxicity

No information available

See Section 11 for additional Toxicological information.

##### Main Symptoms

Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Causes severe caustic burns to skin and eyes.

##### Aggravated Medical Conditions

No information available.

##### Interactions with Other Chemicals

No information available.

##### Potential Environmental Effects

Harmful to aquatic organisms.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Formula

C10H16N.HO

Component	CAS-No	Weight %
Water	7732-18-5	80
Benzyltrimethylammonium hydroxide	100-85-6	20

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing. Immediate medical attention is required.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
<b>Notes to Physician</b>	Treat symptomatically
<b>Protection of First-aiders</b>	Avoid contact with skin, eyes and clothing.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Does not sustain combustion
<b>Suitable Extinguishing Media</b>	Use: Water spray, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry chemical
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ).
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	No
<b>Sensitivity to static discharge</b>	No

#### Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. In the event of fire, cool tanks with water spray.

#### Protective Equipment and Precautions for Firefighters

In the event of fire, wear self contained breathing apparatus. Use personal protective equipment.

**Recommended NFPA**                      **Health 3**    **Flammability 0**    **Instability 0**

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Keep people away from and upwind of spill/leak.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for containment</b>	Prevent spreading over a wide area (e.g. by containment or oil barriers).
<b>Methods for Clean-up</b>	Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do not breathe vapours or spray mist Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Do not ingest Wear personal protective equipment Handle in accordance with good industrial hygiene and safety practice Ensure that eyewash stations and safety showers are close to the workstation location Ensure adequate ventilation
<b>Storage</b>	Keep tightly closed in a dry and cool place Keep in properly labelled containers stainless steel Polyethylene containers
<b>Shelf life</b>	No information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas To protect against splashes from pouring Avoid formation of aerosol
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Goggles. If splashes are likely to occur, wear: Face-shield.
<b>Skin Protection</b>	Chemical resistant apron. Impervious clothing. Rubber gloves. Nitrile rubber. Neoprene gloves.
<b>Hand Protection</b>	Rubber gloves. Nitrile rubber. Neoprene gloves.
<b>Respiratory Protection</b>	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
<b>Other protective equipment</b>	Ensure that eyewash stations and safety showers are close to the workstation location.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless. Light yellow.
<b>Odor</b>	Slight Amines
<b>Physical State</b>	Liquid
<b>pH</b>	>13
<b>Flash Point</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point/Range</b>	102 °C approximately
<b>Melting Point/Range</b>	No data available
<b>Flammability Limits in Air</b>	<b>Upper</b> No data available <b>Lower</b> No data available
<b>Explosive Properties</b>	According to experience not expected
<b>Oxidizing Properties</b>	According to experience not expected
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Specific Gravity</b>	1.02 @ 25 C
<b>Bulk Density</b>	No data available
<b>Solubility</b>	Miscible Water
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Molecular Weight</b>	167.25

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	To avoid thermal decomposition, do not overheat.
<b>Incompatible Materials</b>	Strong acids. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating gases and vapours. amines. alcohols.
<b>Hazardous Reactions</b>	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information</b>	Harmful in contact with skin Causes burns Avoid breathing vapors or mists
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### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyltrimethylammonium hydroxide	No information available	No information available	No information available

**Chronic Toxicity**

**Carcinogenicity** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Other Toxicity Information:** Additional information may be found in RTECS.  
**RTECS No:** BO85750000

**Corrosivity** Causes severe caustic burns to skin and eyes.

**Target Organ Effects** Skin, Eyes, Respiratory system.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Acute aquatic toxicity testing has shown this compound to be toxic to the ceriodaphnia dubia (water flea).

**Ecotoxicity effects** Harmful to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Water	-	-	-	-
Benzyltrimethylammonium hydroxide	No information available	No information available	No information available	No information available

**Persistence and degradability** No information available.

**Bioaccumulation** No information available

**Mobility** Soluble Water

Water  
**log Pow** -  
 Benzyltrimethylammonium hydroxide  
**log Pow** No data available

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	Dispose of contents/container in accordance with local regulation. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant). Expected to be biodegradable. Can be incinerated, when in compliance with local regulations.
<b>Contaminated packaging</b>	Empty remaining contents. Triple rinse containers.
<b>Waste from Residues / Unused Products</b>	Should not be released into the environment. Treat rinsing as for product disposal.
<b>US EPA Waste Number</b>	D002 Would be considered as a characteristic hazardous waste under RCRA if disposed in the form as shipped from SACHEM

### 14. TRANSPORT INFORMATION



#### DOT

<b>Proper shipping name</b>	1719 - Caustic alkali liquid, n.o.s
<b>Proper technical name</b>	Benzyltrimethylammonium hydroxide
<b>Hazard Class</b>	8
<b>Packing Group</b>	PGII

#### ICAO

<b>ICAO Proper Shipping Name</b>	1719 - Caustic alkali liquid, n.o.s
<b>Proper Technical Name</b>	Benzyltrimethylammonium hydroxide
<b>Hazard Class</b>	8
<b>Packing Group</b>	PGII

**15. REGULATORY INFORMATION**

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

CWA - Reportable Quantities	Not applicable
CWA - Hazardous Substances	Not applicable

**CERCLA**

Not applicable

**SARA Product RQ**

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**International Regulations**

**International Inventories**

Component	ENCS	PICCS	DSL	TSCA	CHINA	AICS	KECL	NDSL	EINECS	ELINCS	EC No.
Water	X	X	X	X	X	X	X	-	231-791-2	-	231-791-2
Benzyltrimethylammonium hydroxide	x	-	x	x	-	x	x	-	202-895-5	-	202-895-5

**TSCA**

- All components of this product are listed on the TSCA Chemical Inventory.

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**16. OTHER INFORMATION**

Health Hazard	3
Fire Hazard	0
Reactivity	1



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**Revision Note**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. In case of any questions, please refer to the official document in English and contact us in your region.

End of Safety Data Sheet