### **Safety Data Sheet**

### Acetylcholine Bromide, 0.01%



**Section 1** 

**Product Description** 

**Product Name:** Acetylcholine Bromide, 0.01% **Recommended Use:** Science education applications

Synonyms: 2-Acetoxy-N,N,N-trimethylethanaminium Bromide Solution, AChBr

**Distributor:** Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

**Hazard Identification** 

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**GHS Classification:** 

**Section 3** 

**Composition / Information on Ingredients** 

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 99.99

 Acetylcholine Bromide
 66-23-9
 0.01

Section 4

**First Aid Measures** 

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

**Firefighting Procedures** 

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards:

None Known

**Hazardous Combustion Products:** 

Carbon dioxide, Carbon monoxide

Section 6

## **Spill or Leak Procedures**

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling:

Do not ingest or take internally. Avoid contact with skin and eyes.

Storage:

Suitable for any general chemical storage.

Keep locked up and out of the reach of children.

Section 8

**Protection Information** 

### **Safety Data Sheet**

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)No data availableN/AN/AN/AN/A

**Control Parameters** 

**Engineering Measures:**No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

# Section 9 Physical Data

Formula: CH3COOCH2CH2N(CH3)3\*Br

Wapor Pressure: approx. 14 mm Hg

Molecular Weight: N/A

Evaporation Rate (BuAc=1): N/A

Appearance: Colorless Vapor Density (Air=1): approx. 0.7 Odor: None Specific Gravity: 1.0

Odor Threshold: No data available

Solubility in Water: Soluble

pH: No data available
 Melting Point: No data available
 Boiling Point: 100 C
 Log Pow (calculated): No data available
 Autoignition Temperature: No data available
 Decomposition Temperature: No data available

Flash Point: No data available
Flammable Limits in Air: N/A

Viscosity: No data available
Percent Volatile by Volume: 0%

### Section 10 Reactivity Data

Reactivity: No data available

**Chemical Stability:** Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Polymerization: Will not occur

## Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Cardiovascular system, Central Nervous System Disorders

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

No data available Not listed Not listed Not listed

Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

## Safety Data Sheet

See Section 2 Acute:

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly

evaluated.

Section 12 **Ecological Data** 

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data Bioaccumulation: No data No data Degradability: Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** Water 7732-18-5 No data available

Section 13 Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always **Disposal Methods:** 

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name: Not Regulated for Transport Not regulated for air transport by IATA.

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** 

> Number TQ

No data available No No No No No

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 08/26/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Glossary** 

**ACGIH** American Conference of Governmental NTP National Toxicology Program Occupational Safety and Health Administration Industrial Hygienists OSHA Chemical Abstract Service Number CAS Permissible Exposure Limit PEL **CERCLA** Comprehensive Environmental Response, Parts per million ppm Compensation, and Liability Act **RCRA** Resource Conservation and Recovery Act DOT U.S. Department of Transportation Superfund Amendments and Reauthorization Act SARA **IARC** International Agency for Research on Cancer TLV Threshold Limit Value

N/A Not Available **TSCA** Toxic Substances Control Act

**IDLH** Immediately dangerous to life and health