

## 10X Tris-Borate-EDTA TBE Buffer SDS

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Version Number: **1.0**

**SECTION 1: IDENTIFICATION**
**1.1 Product Identifier**

**Product Form:** Mixture

**Product Name:** 10X Tris-Borate-EDTA TBE Buffer

**Product Codes:** MB-019/MB-019-4000

**1.2 Intended Use of the Product**

For research use only

**1.3 Name, Address, and telephone of the Responsible Party**

Company:

Rockland Immunochemicals, Inc.

321 Jones Boulevard

Pottstown, PA 19464

(800) 656-7625

**1.4 Emergency Telephone Number**

CHEMTREC: 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

**SECTION 2: HAZARDS IDENTIFICATION**
**2.1 Classification of the Substance or Mixture**

**GHS-US Classification:** Not classified

**2.2 Label Elements**

**GHS-US Labeling:**

Hazard Pictogram: N/A

Signal Word: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

**2.3 Other Hazards**

No data available

**2.4 Unknown Acute Toxicity (GHS-US)**

No data available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substance**

Not applicable

**3.2 Mixture**

Name	Product Identifier	%	GHS-US classification
Tris Base	(CAS No) 77-86-1	<=10	Not classified
Boric acid	(CAS No) 10043-35-3	<=6	Repr. 1B; Aquatic Acute 3; H360, H402
Edetate disodium dihydrate	(CAS No) 6381-92-6	<=0.4	Acute Tox. 4; STOT RE 2;

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			H332, H373
*Full text of GHS-US phrases: see section 16			

**SECTION 4: FIRST AID MEASURES**
**4.1 Description of First Aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

After Inhalation: When symptoms occur, go into open air, and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

After Skin Contact: Immediately remove any contaminated clothing.

After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

General: None known.

After Inhalation: None known.

After Skin Contact: None known.

After Eye Contact: None known.

After Ingestion: None known.

Chronic Symptoms: None known.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

**SECTION 5. FIRE-FIGHTING MEASURES**
**5.1 Extinguishing Media**

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special Hazards Arising from the Substance or Mixture**

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

**5.3 Advice for Firefighters**

Precautionary Measures - Fire: Exercise caution when fighting any fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**
**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

General Measures: Normal ventilation is adequate.

**6.1.1 For Non-emergency Personnel**

Protective Equipment: Use appropriate personal protection equipment (PPE).

**6.1.2 For Emergency Personnel**

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the

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presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2 Environmental Precautions

Do not let product enter drains.

### 6.3 Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4 Reference to Other Sections

See Heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Additional Hazards When Processed: None

Precautions for Safe Handling: For precautions see section 2.2. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store container at room temperature (18° to 26° C) prior to opening.

Incompatible Products: Keep away from strong oxidizers.

### 7.3 Specific End Use(s)

For research use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

Contains no substances with occupational exposure limit

### 8.2 Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: The use of personal protective equipment may be necessary as conditions warrant. Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing: Wear appropriate protective gloves and clothing to prevent skin exposure.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Safety glasses with side shields or safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Not required under normal conditions.

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Environmental Exposure Controls: No special environmental precautions required.

Other Information: When using, do not eat, drink, or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on Basic Physical and Chemical Properties**

Physical State: Liquid (sterile filtered)

Appearance: No data available

Odor: No data available

Odor Threshold: No data available

pH: No data available

Evaporation Rate: No data available

Melting Point: No data available

Freezing Point: No data available

Boiling Point: No data available

Flash Point: Product does not sustain combustion

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flammability (solid, gas): Not flammable

Lower Flammable Limit: No data available

Upper Flammable Limit: No data available

Vapor Pressure: No data available

Relative Vapor Density at 20°C: No data available

Relative Density: No data available

Specific Gravity: No data available

Solubility: Soluble in water.

Partition Coefficient: N-Octanol/Water: No data available

Viscosity: No data available

**9.2 Other Information**

No additional information available.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Hazardous reactions will not occur under normal conditions.

**10.2 Chemical Stability**

Stable under recommended handling and storage conditions (see section 7).

**10.3 Possibility of Hazardous Reactions**

No information available

**10.4 Conditions to Avoid**

No information available

**10.5 Incompatible Materials**

No information available

**10.6 Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In the event of fire: see section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on Toxicological Effects**

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

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Acute toxicity:

<b>Tris Base (77-86-1)</b>	
LD50 Oral	No data available
LD50 Dermal	No data available
LC50 Inhalation	No data available
<b>Boric Acid (10043-35-3)</b>	
LD50 Oral	3,450 mg/kg (Rat)
LD50 Dermal	> 2,000 mg/kg (Rat)
LC50 Inhalation	4 h - > 2.12 mg/l - dust/mist (Rat)
<b>Edetate disodium dihydrate (6381-92-6)</b>	
LD50 Oral	2,800 mg/kg (Rat)
LD50 Dermal	No data available
LC50 Inhalation	No data available

Chronic Toxicity Irritation: No information available.

Sensitization: No information available.

Carcinogenicity: No information available.

Mutagenic effects: No information available.

Reproductive effects: No information available.

Developmental effects: No information available.

Teratogenicity: No information available.

**SECTION 12: ECOLOGICAL INFORMATION**
**12.1 Toxicity**

No data available

**12.2 Persistence and Degradability**

No data available

**12.3 Bioaccumulative Potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Other Adverse Effects**

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

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### 13.1 Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: None

Ecology – Waste Materials: Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on several variables that may or may not have been known at the time the SDS was issued.

### 14.1 In Accordance with DOT

Not regulated for transport.

### 14.2 In Accordance with IMDG

Not regulated for transport.

### 14.3 In Accordance with IATA

Not regulated for transport.

### 14.4 In Accordance with TDG

Not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

**OSHA Hazards:** None

**SARA 302 Components: SARA 302:** No chemical in this material is subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components: SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

**SARA 311/312 Hazards:** See section 2 for more information

### 15.2 US State Regulations

Not applicable

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision: 04/05/2023

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of GHS-US phrases

Repr. 1B	Reproductive toxicity (Category 1B)
Aquatic Acute 3	Short-term (acute) aquatic hazard (Category 3)
Acute Tox. 4	Acute Toxicity Category 4
STOT RE 2	Specific Target Organ Toxicity- repeated exposure
H360	May damage fertility or the unborn child.
H402	Short-term (acute) aquatic hazard
H332	Harmful if swallowed or if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*