

## Safety Data Sheet

Revision Date: 15-January-2016

24 Hour Emergency #: 1-800-255-3924

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Tris Borate EDTA Buffer (10X), TBE (10X)  
 CATALOG NUMBER: 351-001-131  
 CHEMICAL NAME: Aqueous solution of Tris base [Tris (hydroxymethyl) aminomethane], Boric acid, and EDTA (Disodium ethylenediaminetetraacetic acid dihydrate).

#### Company/Undertaking Identification

Quality Biological Inc.  
 7581 Lindbergh Drive  
 Gaithersburg, MD 20879  
 301-840-9331

### 2. HAZARDS IDENTIFICATION

#### GHS – Classification

Signal Word

Danger



#### Hazard Statements

#### Precautionary Statements

H360 - May damage fertility or the unborn child  
 P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P281 - Use personal protective equipment as required  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS-No	Weight %
Tris (hydroxymethyl)aminomethane	201-064-4	77-86-1	10.8
Boric acid (H3BO3)	233-139-2	10043-35-3	5.5



## 4. FIRST AID MEASURES

<b>Skin contact</b>	Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.
<b>Eye contact</b>	Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person
<b>Inhalation</b>	If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician
<b>Notes to physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**General:** Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

**Extinguishing Media:** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Autoignition Temperature:** N/A

**Explosion limits:** Not sensitive.

**Flash Point:** Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

**Use Personal Protective Equipment:** Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Spills and Leaks:** Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

#### Exposure limits

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas
-----------------------------	---

#### Personal protective equipment

<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment
-------------------------------	---

Hand protection	Protective gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure Controls	Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form	Liquid
------	--------

### Important Health Safety and Environmental Information

Boiling point/range	°C No data available	°F No data available
Melting point/range	°C No data available	°F No data available
Flash point	°C No data available	°F No data available
Autoignition temperature	°C No data available	°F No data available
Oxidizing properties	No information available	
Water solubility	No data available	

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Materials to avoid	No information available
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
Polymerization	Hazardous polymerisation does not occur.
Incompatible Products	Strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Irritating to eye, skin and respiratory system.

### Principle Routes of Exposure/ Potential Health effects

Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available

### Specific effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available

**Sensitization**

No information available

**Target Organ Effects**

None known.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Crustacea
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3		1020: 72 h Carassius auratus mg/L LC50 flow-through	115 - 153: 48 h Daphnia magna mg/L EC50

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**IATA**

Not regulated

**15. REGULATORY INFORMATION****International Inventories****U.S. 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 Title 40 of the Code of Federal Regulations, Part 372.

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**U.S. State Regulations****California Proposition 65**

This product does not contain chemicals listed under Proposition 65

## 16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

**THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.**

**End of Safety Data Sheet**