

**Safety Data Sheet**

Revision Date: 07-Nov-2017

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

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

PRODUCT NAME: Tris Acetate Buffer (10X), TAE (10X)  
CATALOG NUMBER: 351-009-101, 351-009-131, 351-009-151, 351-009-491  
CHEMICAL NAME: An aqueous solution of Tris base [Tris (hydroxymethyl) aminomethane], Glacial acetic 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**

Classification  
Signal Word

Eye Irritant 2  
Warning

**Hazard Statements**

WARNING  
H315 - Causes skin irritation.  
H320 - Causes eye irritation.  
H335 - May cause respiratory irritation.  
P260 - Do not breathe dust/fumes/gas/mist/vapors/spray.  
P264 - Wash skin thoroughly after handling.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P308+P313 - IF exposed or concerned: Call a POISON CENTER or doctor/physician.

**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing



# Quality Biological™

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10X TAE

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Tris hydroxymethyl aminomethane	EEC No. 201-064-4	Not available	77-86-1	4.8	Xi;R36/37/38
Glacial acetic acid	EEC No. 200-580-7	Not available	64-19-7	1.1	R10, C; R35
Ethylenediaminetetraacetate, tetrasodium	-	Not available	13235-36-4	0.4	-

### 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:** Use extinguishing media appropriate to surrounding fire conditions.

**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

**Engineering measures** Ensure adequate ventilation, especially in confined areas

### Personal protective equipment

**Respiratory protection** 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

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

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Irritating to eye, skin and respiratory system. May be harmful if swallowed.

## 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

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Glacial acetic acid		LC50= 79 mg/L Pimephales promelas 96 h LC50= 75 mg/L Lepomis macrochirus 96 h		

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

## 14. TRANSPORT INFORMATION

### IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard Class	No information available
Subsidiary Class	No information available
Packing group	No information available
UN-No	No information available

## 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 Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glacial acetic acid	64-19-7	1.1		Group II		

**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**