

# Safety Data Sheet

TE Buffer

**CAROLINA**<sup>®</sup>  
www.carolina.com

## Section 1 Product Description

**Product Name:** TE Buffer  
**Recommended Use:** Science education applications  
**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;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:**

**Other Safety Precautions:** May cause irritation.  
May cause gastrointestinal discomfort.  
May cause irritation to respiratory tract.  
May cause irritation to skin.

## Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99.82
Tris(Hydroxymethyl) Aminomethane	77-86-1	98.8
Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate (EDTA Sodium)	6381-92-6	1
		0.12
		0.2

## 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.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**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:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Sodium Oxides

## Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum.  
**Environmental Precautions:** Avoid breathing material. Avoid contact with skin and eyes. Contain the discharged material.

# Safety Data Sheet

## Section 7 Handling and Storage

**Storage:** Keep container tightly closed in a cool, well-ventilated place.  
**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
EDTA, Disodium Salt, Dihydrate	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No data available. General room or local exhaust ventilation is usually required to meet employee exposure standards and/or to ensure employees are not overexposed to airborne material as described in Section III.

**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:** Natural rubber, Neoprene, PVC or equivalent.

## Section 9 Physical Data

**Formula:** This product is a mixture.  
**Molecular Weight:**  
**Appearance:** Colorless Liquid  
**Odor:** None  
**Odor Threshold:** No data available  
**pH:** No data available  
**Melting Point:** No data available  
**Boiling Point:** 100 C  
**Flash Point:** No data available  
**Flammable Limits in Air:** No data available

**Vapor Pressure:** No data available  
**Evaporation Rate (BuAc=1):** No data available  
**Vapor Density (Air=1):** No data available  
**Specific Gravity:** No data available  
**Solubility in Water:** Soluble  
**Log Pow (calculated):** No data available  
**Autoignition Temperature:** No data available  
**Decomposition Temperature:** No data available  
**Viscosity:** 10  
**Percent Volatile by Volume:** No data available

## Section 10 Reactivity Data

**Reactivity:** No data available  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Incompatible Materials:** Water-reactive materials, Oxidizing materials  
**Hazardous Decomposition Products:** Sodium Oxides, Carbon dioxide, Carbon monoxide  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Symptoms (Acute):** No data available  
**Delayed Effects:** No data available

**Acute Toxicity:**  
**Chemical Name**  
Water

**CAS Number**  
7732-18-5

**Oral LD50**  
Oral LD50 Rat  
90000 mg/kg

**Dermal LD50**

**Inhalation LC50**

# Safety Data Sheet

EDTA, Disodium Salt, Dihydrate

6381-92-6

Oral LD50 Rat  
2000 mg/kg

## Carcinogenicity:

### Chemical Name

EDTA, Disodium Salt, Dihydrate

### CAS Number

6381-92-6

### IARC

Not listed

### NTP

Not listed

### OSHA

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:

#### Acute:

See Section 2, No information available

#### Chronic:

Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

### Overview:

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

### Mobility:

No data

### Persistence:

Dissolved into water, Photodegradation, Evaporation into atmosphere, dissolved in water.

### Bioaccumulation:

No data

### Degradability:

No data

### Other Adverse Effects:

No data

### Chemical Name

Water

EDTA, Disodium Salt, Dihydrate

Hydrogen Chloride

Sodium Hydroxide

### CAS Number

7732-18-5

6381-92-6

### Eco Toxicity

No data available

96 HR LC50 GAMBUSIA AFFINIS 282 MG/L [STATIC]

Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

### Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

# Safety Data Sheet

## Section 15

## Regulatory Information

**TSCA Status:**

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
EDTA, Disodium Salt, Dihydrate	6381-92-6	No	No	No	No	No
Hydrogen Chloride		No	No	No	No	No
Sodium Hydroxide		No	No	No	No	No

## Section 16

## Additional Information

**Revised: 03/25/2015****Replaces: 10/30/2014****Printed: 04-22-2015**

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 Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health