



# MATERIAL SAFETY DATA SHEET

Company	ELPIS-Biotech. Inc.
Address	123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea
Emergency Telephone NO	+82-42-581-8448
Fax	+82-42-581-8449
e-mail address	<a href="mailto:elpis@elpisbio.com">elpis@elpisbio.com</a>

## SECTION 1. CHEMICAL INFORMATION

Product name	20x TAE Buffer
Cat. No.	EBA-1048
Volume of product package:	1 L

**Product Use** : Laboratory Reagent. For R&D use only. Not for drug, household or other uses.

### Manufacturer/ Supplier information

Supply company : ELPIS-Biotech. Inc.  
Address : 123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea  
Information service or emergency call : +82-42-581-8448 (042-581-8448, Korea)  
Department in charge : Research Department

## SECTION 2. HAZARDOUS IDENTIFICATION



### Potential Acute Health Effects:

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, . Non-corrosive for skin. Non-corrosive to the eyes. Non-corrosive for lungs.

### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs. The substance may be toxic to skin. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Buffer's Components in Water:

Reagent	CAS#	Concentration, %
Tris-HCl	77-86-1	< 10
Acetic acid	64-19-7	< 5
EDTA	6381-92-6	< 1

## **SECTION 4. FIRST AID MEASURES**

### **After skin contact**

Generally the product does not irritate the skin. Wash skin with water and soap and rinse thoroughly.

### **After eye contact**

Rinse opened eyes for several minutes under running water. Get medical attention if eyes become irritating.

### **After swallowing (ingestion)**

Rinse mouth. Drink plenty of water. Get medical attention if irritating or symptoms occur

### **After inhalation**

Supply fresh air; consult doctor in case of complaints.

## **SECTION 5. FIRE FIGHTING MEASURES**

### **Extinguishing media**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### **Special firefighting procedures**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and

**Prevent contact with skin and eyes.**

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Not required.

### **Environmental precautions**

Do not allow entering sewers, surfaces or ground water.

### **Measures for cleaning / collecting**

Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal. Wash spill site after material pickup is complete.

## **SECTION 7. HANDLING AND STORAGE**

### **Handling**

No special measures necessary. Good laboratory technique should be used when handling.

### **Storage**

No special measures necessary. Store at room temperature.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION** □

### **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

**Additional information:** The lists valid during the making were used as basis.

### **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection: Not required.**

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no preparation/ the chemical mixture recommendation to the glove material can be given for the product/ the Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless
<b>Odor</b>	Odorless.
<b>Flash point</b>	> 392 F, > 200° C
<b>Explosive properties</b>	No data available.
<b>Vapor pressure</b>	< 1 MMHG @ 20°C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable.
<b>Hazardous polymerization</b>	Will not occur
<b>Materials to Avoid</b>	Strong oxidizing agents, strong bases.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide
<b>Protect from heat</b>	

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Eye Contact:</b>	No Irritating effect.
<b>Skin Contact</b>	No Irritating effect.
<b>Sensitization</b>	No sensitizing effects known.

**Additional toxicological information**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**SECTION 12. ECOLOGICAL INFORMATION**

Data not yet available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state and local environmental regulations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**SECTION 14. TRANSPORT INFORMATION**

Contact ELPIS Biotech, Inc. Company for Transportation Information.

## **SECTION 15. REGULATORY INFORMATION**

Federal and State Regulations: TSCA 8(b) inventory: Water; Tromethamine

Other Regulations: Not available. or of its ingredients

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R25- Toxic if swallowed. R36/38- Irritating to eyes and skin. S1/2- Keep locked up and out of the reach of children. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: a

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Not applicable. Lab coat. Not applicable. Safety glasses.

## **SECTION 16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

ELPIS Biotech Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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