



### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical characterization

**Description:** Solution, consisting of the following components.

#### Buffer's Components in Water:

Reagent	CAS#	Concentration, %
Tris-HCl	77-86-1	< 0.1
Glycerol	56-81-5	< 50

#### Components:

Glycerol	CAS: 56-81-5	EI;ECS: 200-289-5	≤ 50 %
water	CAS: 7732-18-5	EI;ECS: 231-791-2	25-45 %

**Other components** are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

### SECTION 4. FIRST AID MEASURES

#### Primary routes of entry

Skin or eye contact from splashes.

Inhalation of the vapor at room temperature is unlikely.

#### Skin contact

May cause irritation

#### Eye contact

Irritating

#### Evidence for reproductive toxicity, carcinogenicity and mutagenicity

No data available

### SECTION 5. FIRE FIGHTING MEASURES

#### Extinguishing media

Water spray, Carbon dioxide, dry chemical powder or appropriate foam.

#### Special firefighting procedures

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

#### Unusual fire and explosions hazards

Emit toxic fumes under fire conditions

Prevent contact with skin and eyes.

Flash Point : N/A

Flammability : N/A

### 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** : User Exposure : Avoid contact with eyes, skin, and clothing.

Avoid inhalation. Avoid prolonged or repeated exposure.

**Storage** : No special measures necessary. Keep tightly closed. Store at -20°C.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION □

**Engineering controls** : safety shower and eye bath. Mechanical exhaust required.

**Personal Protective equipment** :

**Respiratory** : NIOSH/MSHA-approved respirator

**Hand** : Compatible chemical -resistant gloves.

**Eye** : Compatible safety goggles.

**General Hygiene Measures** : Wash thoroughly after handling.

Wash contaminated clothing before use.

Keep tightly closed. Store in a cool dry place. Freeze. Store at -20°C.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.
<b>Color</b>	Clear Colorless.
<b>Odor</b>	Odorless.
<b>Melting Point</b>	20 °C.
<b>Boiling Point</b>	182 °C.
<b>Flash point</b>	> 392 F, > 200 °C.
<b>Explosive properties</b>	No data available.
<b>Vapor pressure</b>	< 1 MMHG @ 20 °C.
<b>PH</b>	5.5–8.0

## SECTION 10. STABILITY AND REACTIVITY

**Stability** Stable.

**Hazardous polymerization** Will not occur

**Materials to Avoid** Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide

**Protect from heat and moisture**

## SECTION 11. TOXICOLOGICAL INFORMATION

**Eye Contact:** Irritating to eyes

**Skin Contact** Irritating to skin.

**Multiple Routes** May be harmful by inhalation, ingestion, or skin absorption

Materials may be irritating to mucous membranes and upper respiratory tract.

**Chronic Effects** : Target Organs, Kidney

Signs and Symptoms of Exposure : Prolonged exposure can cause : Nausea, headache and vomiting

To the best of our knowledge, the properties have not yet been thoroughly investigated.

## **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**

US Classification and Label text

US Statements : Caution: Avoid contact and inhalation

United States regulatory information

SARA Listed : No

Canada regulatory information

WHMIS Classification : This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

## **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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