

## Trade name: 10X Tris-Glycine Native Buffer



185 Research Drive, #6, Milford, CT 06460 (203) 878-7411

FAX: (203) 878-7448

E-Mail: [PrecastGel@aol.com](mailto:PrecastGel@aol.com)

[www.precastgels.com](http://www.precastgels.com)

### 1. Identification of substance:

#### Product details:

- **Trade name:** 10X Tris-Glycine Native Buffer
- **Catalog or product number:** TGNRB10X
- **Application of the substance:** Laboratory chemicals
- **Manufacturer/Supplier:**
  - Jule, Inc.
  - 185 Research Drive, Suite #6
  - Milford, CT 06460
  - 1-800-648-1772
- **Information department:** Technical services, customer support
- **Emergency information:**
  - 1-800-648-1772
  - (203) 878-7411

---

### 2. Composition/Information on components:

#### Chemical characterization:

- **Description:** Mixture of the substances listed below with non-hazardous additions.
- **Listing of dangerous and non-hazardous components:**

CAS: 7732-18-5 EINECS: 231-791-2 RTECS: ZC 0110000	Water		50-100%
CAS: 7732-18-5 EINECS: 201-064-4 RTECS: TY 2900000	Tris(hydroxymethyl)aminomethane	Xn, Xi; R 22-36 Danger: Skull and crossbones 3.1.0/3, 3.3/2A	10-20%
CAS: 56-40-6 EINICS: 200-272-2 RTECS: MB 7600000	Glycine	Xn, Xi; R 22-36 Danger: Skull and crossbones 3.1.0/3, 3.3/2A	2.5-5%

- **Additional information:** For the wording of the listed risk phrases refer to section 15.
- 
-

## Trade name: 10X Tris-Glycine Native Buffer

### 3. **Hazards identification:**

- **Emergency overview:** N/A

- **Information pertaining to particular dangers for man and environment:** The product does not have to be labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

- **Classification system:** The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information

- **GHS label elements**

**Warning**

3.1/5 – May be harmful if swallowed

- **Response:**

Call a POISON CENTER or doctor/physician if you feel unwell.

---

---

### 4. **First aid measures:**

- **General information:** No special measures required.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** Induce vomiting and call for medical help.

---

---

### 5. **Fire fighting measures:**

- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:** No special measures required.

---

---

## Trade name: 10X Tris-Glycine Native Buffer

### 6. Accidental release measures:

- **Person-related safety precautions:** Not required.
  - **Measures for environmental protections:** No special measures required.
  - **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - **Additional information:** No dangerous substances are released.
- 
- 

### 7. Handling and storage:

#### Handling:

- **Information for safe handling:**
  - No special measures required.
  - No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.

#### Storage:

- **Requirements to be met by storerooms and receptacles:** According to product specification.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** None.
- 
- 

### 8. Exposure controls and personal protection:

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components 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 that were valid during the creation were used as basis.

#### Personal protective equipment:

- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required
- **Protection of hands:** Protective gloves.
- **Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Synthetic gloves

## Trade name: 10X Tris-Glycine Native Buffer

- **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:** Safety glasses.

---

---

### 9. Physical and chemical properties:

#### General Information:

Form:	Liquid
Color:	Colorless
Odor:	odorless

#### Change in condition:

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	100°C
Flash point:	N/A
Auto-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Vapor Pressure at 20°C:	23 hPa
Density at 20°C:	0.97312 g/cm <sup>3</sup>
Solubility in/Miscibility with water:	Fully miscible

#### Solvent content:

Organic solvents:	0.0%
Water:	82.5%
Solids content:	17.5%

---

---

### 10. Stability and reactivity:

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions:** No dangerous reactions known.

- **Dangerous products of decomposition:** No dangerous decomposition products known.

---

---

### 11. Toxicological information:

#### Acute toxicity:

- **LD/LC50 values for hazardous components per OSHA criteria:**

**77-86-1 Tris(hydroxymethyl)aminomethane**

Oral: LD50 5900 mg/kg (rat)

**56-40-6 glycine**

Oral: LD50 7930mg/kg (rat)

## Trade name: 10X Tris-Glycine Native Buffer

Dermal: LD50 5200 mg/kg (rat)

**- Primary irritant effects:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritant effect.

- **Sensitization:** No sensitizing effects known.

**- Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

- **Target organs:** Not applicable.

---

---

### **12. Ecological information:**

- **General notes:** Generally not hazardous for water.

---

---

### **13. Disposal considerations:**

Product:

- **Recommendation:** Hand over to hazardous waste disposers.

Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents

---

---

## Trade name: 10X Tris-Glycine Native Buffer

### 14. Transport information:

- DOT Regulations:
  - Hazard class: -
  - Land transport ADR/RID (cross-border)
  - ADR/RID class: -
  - Maritime transport IMDG:
  - IMDG Class:
  - Marine pollutant: No
  - Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: -
  - Transport/Additional information: Not dangerous according to the above specifications.
- 
- 

### 15. Regulations:

#### SARA (Superfund Amendments and Reauthorization Act of 1986 – USA):

- Section 302/304 (40CFR355.30/40CFR355.40): None of the ingredients is listed
- Section 313 (40CFR372.65): None of the ingredients is listed
- TSCA (Toxic Substances Control Act): All ingredients are listed.

#### Carcinogenicity categories:

- EPA (Environmental Protection Agency): None of the ingredients is listed.
- IARC (International Agency for Research on Cancer): None of the ingredients is listed.
- NTP (National Toxicology Program): None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH): A4
- MAK (German Maximum Workplace Concentration): None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.
- Markings according to EU Guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV)
- Safety phrases: 60 This material and its container must be disposed of as hazardous waste.

#### National regulations:

- Water hazard class: Generally not hazardous for water.
- 
-

**Trade name:** 10X Tris-Glycine Native Buffer

**16. Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.