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## **SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

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### **1.1 Product identifier :**

Substance name : TAE, 10X, Ultrapure, filtered, sterile, Molecular Biology Grade

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Recommended restrictions on use : For professional users only.

### **1.3 Details of the supplier of the safety data sheet**

Manufacturer / Supplier : ROJETechnologies

Street address / P.O. Box : NO. 2 Farvardin street- Fernan Street- Tehran- Shahr Qods- Iran-

Postal Code: 37531146130

Country ID / Postcode / Place : Iran

Telephone number : 02191070705

E-Mail : Info@rojetechnologies.com

National contact: ROJETechnologies

### **1.4 Emergency Telephone Number**

Opening Hours: 8-15:00 Sa to Wed and 8-13:00 Thurs

Language Of The Phone Service: English/ Persian

Only Available During Office Hours.

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## **SECTION 2: Hazards Identification**

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### **2.1 Classification of the substance or mixture**

#### **2.1.1 classification according to regulation (EC) No 1272/2008 (CLP)**

H315 - Skin Corrosion/Irritation (Category 2)

H320 - Serious Eye Damage/Eye Irritation (Category 2B)

H335 - Specific Target Organ Toxicity, Single Exposure (Category 3)

### **2.2 Label elements**



Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

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.

|                           |                |
|---------------------------|----------------|
| <b>Hazard pictograms:</b> | Danger         |
| <b>Signal word:</b>       | None           |
| <b>Hazard statements:</b> | Not applicable |
| <b>Prevention</b>         | Not applicable |
| <b>Response</b>           | Not applicable |
| <b>Storage</b>            | Not applicable |
| <b>Disposal</b>           | Not applicable |

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### 2.1.2 Carcinogenicity:

|              |   |
|--------------|---|
| <b>IARC</b>  | <b>No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</b> |
| <b>ACGIH</b> | <b>No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</b>            |
| <b>OSHA</b>  | <b>No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</b>             |



**NTP**                    **No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

### 2.3 Other hazards

Not applicable

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## SECTION 3: *Composition/Information on Ingredients*

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### 3.1 Substances

|                    |                   |
|--------------------|-------------------|
| Substances name:   | TAE Buffer        |
| INDEX No.:         | No data available |
| EC NO.:            | No data available |
| REACH No.:         | No data available |
| CAS No.:           | No data available |
| Purity:            | No data available |
| Synonymes:         | No data available |
| Stabilisers:       | No data available |
| Hazard impurities: | No data available |

### 3.2 Mixtures

Description of the mixture:                    No data available

Hazardous ingredients                    The product contains no substances which at their given concentration, are considered to be hazardous to health.

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## SECTION 4: *First Aid Measures*

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### 4.1 Description of first aid measures



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- General notes: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
- following inhalation: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- following skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
- following eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- following ingestion: If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms: Not applicable

Effects: Not applicable

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes for doctor: No information available.

Special treatment: No information available.

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**SECTION 5: *Fire-Fighting Measures***

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**5.1 Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing : No information available.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Not known.

### **5.3 Advice for fire-fighters**

Special protective equipment for firefighters: Standard procedure for chemical fires.

## **SECTION 6: *Accidental Release Measures***

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### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **6.1.1 For non-emergency personnel**

Protective equipment: Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Emergency procedures: Evacuate the danger area or consult an expert if needed.

#### **6.1.2 For emergency responders**

Personal protective equipment: Use suitable fabric for personal protective clothing.

### **6.2 Environmental precautions**

No special environmental precautions required.

### **6.3 Methods and materials for containment and cleaning up**

**6.3.1 For containment:** acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

**6.3.2 For cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.3.3 Other information:** See section 8 for more information.

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## **SECTION 7: *Handling and Storage***

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### **7.1 Precautions for safe handling**

Advice on safe handling: Use personal protective equipment as required. No special handling advices are necessary.

## **7.2 Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions: Keep container tightly closed in a dry and well-ventilated place.

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## **SECTION 8: *Exposure Controls/Personal Protection***

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**8.1 Control parameters**                      Contains no substances with occupational exposure limit values.

### **8.2 Personal protection equipment :**

**8.2.2.1 Eye and face protection :**Safety glasses Wear face-shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are close to the workstation location.

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**8.2.2.2 Respiratory protection :**In the case of vapor formation use a respirator with an approved filter.

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**8.2.2.3 Skin protection :**Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

**8.2.2.4 Hand protection :**The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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**8.2.2.5 Hygiene measures :** Handle in accordance with good industrial hygiene and safety practice.

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**8.2.2.6 Respiratory protection :** In the case of vapor formation use a respirator with an approved filter.

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## **SECTION 9: *Physical and Chemical Properties***

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### **9.1 Information on basic physical and chemical properties:**

|   |                           |
|---|---------------------------|
| a) Appearance:                                    | Clear, colorless solution |
| b) Odour:   | No data available         |
| c) Odour threshold:                               | No data available         |
| d) pH:  | 8.3                       |
| e) Melting point / freezing point:                | No data available         |
| f) Initial boiling point and boiling range:       | No data available         |
| g) Flash point:                                   | No data available         |
| h) Evaporation rate:                              | No data available         |
| j) Upper / lower flammability or explosive limits | No data available         |
| k) Vapour pressure                                | Water                     |
| l) Vapour density                                 | No data available         |
| m) Relative density                               | .98                       |
| n) Solubility(ies)                                | Soluble                   |
| o) Partition coefficient: n-octanol/water         | No data available         |
| p) Auto-ignition temperature                      | Not determined            |
| q) Decomposition temperature                      | No data available         |
| r) Viscosity                                      | No data available         |
| s) Explosive properties                           | No data available         |
| t) oxidizing properties                           | No data available         |

### **9.2 Other information**

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## **SECTION 10: Stability and Reactivity**

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**10.1 Reactivity:**

None known.

**10.2 Chemical stability:**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions:**

reported.

Hazardous reaction has not been

**10.4 Conditions to avoid:**

No data available

**10.5 Incompatible materials:**

No data available

**10.6 Hazardous decomposition products:**

No data available

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**SECTION 11: *Toxicological Information***

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**11.1 Information on toxicological effects**

**11.1.1 Acute toxicity:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.2 Skin corrosion/irritation:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.3 Serious eye damage/irritation:**

|          |                   |
|----------|-------------------|
| Method:  | No data available |
| Species: | No data available |





|                     |                   |
|---------------------|-------------------|
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.4 Respiratory or skin sensitization:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.5 Germ cell mutagenicity:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.6 Carcinogenicity:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.7 Reproductive toxicity:**



|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.8 Summary of evaluation of the CMR properties:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.9 STOT-single exposure:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.10 STOT-repeated exposure:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

**11.1.10 Aspiration hazard:**

|                     |                   |
|---------------------|-------------------|
| Method:             | No data available |
| Species:            | No data available |
| Routes of exposure: | No data available |
| Effective doses:    | No data available |
| Exposure time:      | No data available |
| Results:            | No data available |

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**SECTION 12: *Ecological Information***

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**12.1 Toxicity**

Acute (short-term) toxicity:

|                       |                   |
|-----------------------|-------------------|
| Fish:                 | No data available |
| Crustatacea:          | No data available |
| Algae/aquatic plants: | No data available |
| Other organisms:      | No data available |

Chronic (long-term) toxicity

|                       |                   |
|-----------------------|-------------------|
| Fish:                 | No data available |
| Crustatacea:          | No data available |
| Algae/aquatic plants: | No data available |
| Other organisms:      | No data available |

|                    |                   |
|--------------------|-------------------|
| Ingredients:       | No data available |
| maleic acid :      | No data available |
| Toxicity to fish : | No data available |

Toxicity to daphnia and other aquatic

|                 |                   |
|-----------------|-------------------|
| invertebrates : | No data available |
|-----------------|-------------------|

Toxicity to algae :

No data available



### **12.2 Persistence and degradability**

Abiotic Degradation:

Physical- and photo-chemical elimination

Biodegradation:

No data available

Remarks:

According to the results of tests of

biodegradability

this product is not readily

biodegradable.

### **12.3 Bioaccumulative potential**

Partition coefficient

n-octanol/water (log kow):

No data available

Bioconcentration factor (BCF):

No data available

### **12.4 Mobility in soil**

Known or predicted distribution to environmental compartments: No data available

Surface tension:

No data available

Adsorption/Desorption:

No data available

### **12.5 Results of PBT and vPvB assessment**

#### **12.6 Other adverse effects**

No data available

#### **12.7 Additional information**

No data available

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## **SECTION 13: *Disposal Considerations***

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### **13.1 Waste treatment methods**

**Disposal methods Waste from residues :** Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

**Contaminated packaging :**

Dispose of as unused product. Do not re-use empty containers.

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## SECTION 14: Transport Information

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### 14.1. UNRTDG

Not regulated as a dangerous good

### 14.2. IATA-DGR

Not regulated as a dangerous good

### 14.3. IMDG-Code

Not regulated as a dangerous good

### 14.4. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### 14.5. Domestic regulation

49 CFR

Not regulated as a dangerous good

### 14.6. Special precautions for user :

Remarks :

Not classified as dangerous in the  
meaning of transport regulations.

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## SECTION 15: Regulatory Information

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### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA list : No data available

OSHA Hazards : No data available

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



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US State Regulations

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### **15.2 Chemical safety Assesment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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### **SECTION 16: *Other Information***

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- (i) Indication of changes: No information available
- (ii) Abbreviations and acronyms: No information available
- (iii) Key literature references and sources for data: No information available
- (iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: No information available
- (v) Relevant H-statements (number and full text): No information available
- (vi) Training advice: No information available
- (vii) Further information: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.