

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Binding Buffer  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                       |                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical hazards      | Not classified                                                                                                                                                 |
| Health hazards        | Acute oral toxicity Category 4, Skin corrosion/irritation Category 2,<br>Acute inhalation toxicity Category 4, Serious eye damage/eye<br>irritation Category 2 |
| Environmental hazards | Not classified                                                                                                                                                 |

#### 2.2 Label elements

Symbols/Pictograms



Signal word

Hazard statements

Warning

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye  
protection/face protection

P270 - Do not eat, drink or smoke when using this product

## Precautionary Statements – Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P330 - Rinse mouth  
P332 + P313 - If skin irritation occurs: Get medical advice/attention

### 2.3 Other hazards

Not Applicable

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Product Name

Binding Buffer

Synonyms: -

Concentration: -

Formula: -

Molecular Weight: -

This product is a mixture.

### 3.2 Mixture

| Chemical Name           | CAS No  | Weight % |
|-------------------------|---------|----------|
| Guanidine hydrochloride | 50-01-1 | 60-80    |

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                        |
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                          |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                           |
| Inhalation                         | Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a doctor.                                       |
| Ingestion                          | Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                                |

### Most important symptoms and effects, both acute and delayed

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| Symptoms | H302 - Harmful if swallowed<br>H314 - Causes severe skin burns and eye damage |
|----------|-------------------------------------------------------------------------------|

### Indication of any immediate medical attention and special treatment needed

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                               |

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

|                                            |                           |
|--------------------------------------------|---------------------------|
| Specific hazards arising from the chemical | No information available. |
|--------------------------------------------|---------------------------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

## 5.4 Protective equipment and precautions for firefighters

Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

Methods for cleaning up                      Soak up with inert absorbent material.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.

Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not

Available

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

Wash hands, forearms and face after handling.

#### Personal protective equipment

##### Eye/face protection:

Tight sealing safety goggles.

##### Hand protection:

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

##### Skin and body protection:

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

##### Respiratory protection:

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                    |                   |
|----------------------------------------------------|-------------------|
| a) Appearance:                                     | Liquid            |
| b) Odor:                                           | No data available |
| c) Odor Threshold:                                 | No data available |
| d) pH:                                             | 4.4               |
| 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 |
| i) Flammability (solid, gas):                      | No data available |
| j) Upper / lower flammability or explosive limits: | No data available |
| k) Vapor pressure:                                 | No data available |
| l) Vapor density:                                  | No data available |

|                                                      |                   |
|------------------------------------------------------|-------------------|
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

|                                            |                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | Not applicable.                                                                                                              |
| <b>Chemical stability:</b>                 | Stable at a cool and dry place.                                                                                              |
| <b>Possibility of hazardous reactions:</b> | Hazardous reaction has not been reported.                                                                                    |
| <b>Conditions to avoid:</b>                | Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. |
| <b>Incompatible materials:</b>             | No dangerous reaction known under conditions of normal use.                                                                  |
| <b>Hazardous decomposition products:</b>   | Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ). Sulphur oxides.                                                           |

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### a) Acute toxicity:

| Component               | LD50 Oral       | LD50 Dermal | LC50 Inhalation |
|-------------------------|-----------------|-------------|-----------------|
| Guanidine hydrochloride | 354 mg/kg (Rat) | 1100 mg/kg  | 11 mg/14h       |

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| b) Skin corrosion / irritation:       | Skin irritation.                                         |
| c) Serious eye damage/eye irritation: | Irritating to eyes.                                      |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification. |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification. |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification. |
| g) STOT - RE:                         | Data are conclusive but insufficient for classification. |
| h) Aspiration hazard:                 | Data are conclusive but insufficient for classification. |

### 11.2 Potential health effects

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| <b>Ingestion:</b>  | May be harmful if swallowed.                                        |
| <b>Inhalation:</b> | May be harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Skin:</b>       | May be harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes:</b>       | May cause eye irritation.                                           |

### 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

The environmental impact of this product has not been fully investigated.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Waste treatment methods**

### **Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### **Contaminated packaging**

Dispose of as unused product. Do not reuse empty containers.

## **Section 14. TRANSPORT INFORMATION**

### **14.1 DOT (US)**

Not regulated in the meaning of transport regulations.

### **14.2 IMDG**

Not regulated in the meaning of transport regulations.

### **14.3 IATA**

Not regulated in the meaning of transport regulations.

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

## **SECTION 15. REGULATORY INFORMATION**

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None  |

### **15.2 Environmental hazards**

|                         |                                              |
|-------------------------|----------------------------------------------|
| Guanidine hydrochloride | Hazard class 1 - slightly hazardous to water |
|-------------------------|----------------------------------------------|

## **SECTION 16. OTHER INFORMATION**

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Elution Buffer  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                       |               |
|-----------------------|---------------|
| Physical hazards      | Not Hazardous |
| Health hazards        | Not Hazardous |
| Environmental hazards | Not Hazardous |

#### 2.2 Label elements

|                                       |                |
|---------------------------------------|----------------|
| Symbols/Pictograms                    | None           |
| Signal word                           | None           |
| Hazard statements                     | Not Applicable |
| Precautionary Statements - Prevention | Not Applicable |
| Precautionary Statements – Response   | Not Applicable |

#### 2.3 Other hazards

Not Applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Elution Buffer  
Synonyms: -  
Concentration: -  
Formula: -  
Molecular Weight: -

#### 3.2 Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                         |
| Inhalation                         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| Ingestion                          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                              |

### Most important symptoms and effects, both acute and delayed

Symptoms Not Applicable

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                                            |

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

|                                            |           |
|--------------------------------------------|-----------|
| Specific hazards arising from the chemical | Not known |
|--------------------------------------------|-----------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

### 5.4 Protective equipment and precautions for firefighters

|                         |                                        |
|-------------------------|----------------------------------------|
| Advice for firefighters | Standard procedure for chemical fires. |
|-------------------------|----------------------------------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

|                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | Soak up with inert absorbent material. |
|-------------------------|----------------------------------------|

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.  
Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.  
Wash hands, forearms and face after handling.

### Personal protective equipment

**Eye/face protection:** Tight sealing safety goggles.

**Hand protection:** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

**Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                   |
|------------------------------------------------------|-------------------|
| a) Appearance:                                       | Liquid            |
| b) Odor:                                             | No data available |
| c) Odor Threshold:                                   | No data available |
| d) pH:                                               | 8.5               |
| 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 |
| i) Flammability (solid, gas):                        | No data available |
| j) Upper / lower flammability or explosive limits:   | No data available |
| k) Vapor pressure:                                   | No data available |
| l) Vapor density:                                    | No data available |
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

**Reactivity:** Stable.

**Chemical stability:** Stable at a cool and dry place.

**Possibility of hazardous reactions:** Hazardous reaction has not been reported.

**Conditions to avoid:** No information available.

**Incompatible materials:** No dangerous reaction known under conditions of normal use.

**Hazardous decomposition products:** No data available.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| a) Acute toxicity:                    | There is no evidence available indicating acute toxicity. |
| b) Skin corrosion / irritation:       | Data are conclusive but insufficient for classification.  |
| c) Serious eye damage/eye irritation: | Data are conclusive but insufficient for classification.  |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification.  |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification.  |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification.  |
| g) STOT - RE:                         | Data are conclusive but insufficient for classification.  |

h) Aspiration hazard: Data are conclusive but insufficient for classification.

## 11.2 Potential health effects

**Ingestion:** Data are conclusive but insufficient for classification.

**Inhalation:** Data are conclusive but insufficient for classification.

**Skin:** Data are conclusive but insufficient for classification.

**Eyes:** Data are conclusive but insufficient for classification.

## 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 DOT (US)

Not regulated in the meaning of transport regulations.

### 14.2 IMDG

Not regulated in the meaning of transport regulations

### 14.3 IATA

Not regulated in the meaning of transport regulations

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

## SECTION 15. REGULATORY INFORMATION

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None. |

### 15.2 Environmental hazards

Not Applicable

### 15.3 Chemical safety assessment

No Chemical safety assessment has been carried out.

## SECTION 16. OTHER INFORMATION

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Proteinase K  
Product Code: E1070  
CAS Number: 39450-01-6  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
Respiratory sensitization (Category 1), H334

#### 2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EC]  
Pictogram:



Signal word : Danger

Hazard statement(s)

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P284 : Wear respiratory protection.

Supplemental Hazard

Statement(s) : None

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Possible sensitizer.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Proteinase K

Synonyms: -  
Concentration: <= 100 %  
Formula: -  
Molecular Weight: -

| Component                      | CAS-No.    | Classification                                                      | Concentration |
|--------------------------------|------------|---------------------------------------------------------------------|---------------|
| Proteinase, Tritirachium album | 39450-01-6 | Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Resp. Sens. 1 - H334 | <= 100 %      |

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

If inhaled: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

If swallowed: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

In case of skin contact: If on skin, rinse well with water.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

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

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

No information available.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protective equipment. Avoid formation of dust. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Do not let product enter drains.

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

Cover drains. Collect bind, and pump off spills. Keep in suitable, closed containers for disposal. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Advice on safe handling

Work under hood. Do not inhale substance.

### 7.2 Precautions for safe handling

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

### 7.3 Conditions for safe storage, including any incompatibilities

Keep tightly closed. Protect from light.

See label, package insert or internal guidelines.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with workplace control parameters.

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

#### Personal protective equipment

**Eye/face protection:** Wear safety glasses with side-shields conforming to European Standard EN166.

**Hand protection:** Wear protective gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing.

**Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| a) Appearance:                                       | White powder, (lyophilized) |
| b) Odor:                                             | No data available           |
| c) Odor Threshold:                                   | No data available           |
| d) pH:                                               | No data available           |
| 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           |
| i) Flammability (solid, gas):                        | No data available           |
| j) Upper / lower flammability or explosive limits:   | No data available           |
| k) Vapor pressure:                                   | No data available           |
| l) Vapor density:                                    | No data available           |
| m) Relative density:                                 | No data available           |
| n) Solubility(ies):                                  | No data available           |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available           |
| p) Auto-ignition temperature:                        | No data available           |
| q) Decomposition temperature:                        | No data available           |
| r) Viscosity:                                        | No data available           |
| s) Explosive properties:                             | No data available           |
| t) Oxidizing properties:                             | None                        |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| <b>Reactivity:</b>                         | No data available               |
| <b>Chemical stability:</b>                 | Stable under normal conditions. |
| <b>Possibility of hazardous reactions:</b> | No data available               |
| <b>Conditions to avoid:</b>                | No data available               |

**Incompatible materials:** No dangerous reaction known under conditions of normal use.  
**Hazardous decomposition products:** No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### a) Acute toxicity:

| Component                      | LD50 Oral         | LD50 Dermal       | LC50 Inhalation   |
|--------------------------------|-------------------|-------------------|-------------------|
| Proteinase, Tritirachium album | No data available | No data available | No data available |

b) Skin corrosion / irritation: Not classified based on available information.  
c) Serious eye damage/eye irritation: Not classified based on available information.  
d) Carcinogenicity: Not classified based on available information.  
e) Reproductive toxicity: Not classified based on available information.  
f) STOT - SE: Not classified based on available information.  
g) STOT - RE: Not classified based on available information.  
h) Aspiration hazard: May cause sensitisation by inhalation

### 11.2 Potential health effects

**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled.  
**Skin:** May be harmful if absorbed through skin.  
**Eyes:** May be harmful if in contact with eyes.

### 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Can be disposed as waste water, when in compliance with local regulations.

### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: -                      IMDG: -                      IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not regulated in the meaning of transport regulations  
IMDG: Not regulated in the meaning of transport regulations  
IATA: Not regulated in the meaning of transport regulations

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: No IMDG: No IATA: No

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15. REGULATORY INFORMATION**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16. OTHER INFORMATION**

**Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş.  
B Blok No: 20/113 Yakutiye/Erzurum  
Tel/Fax: 0090 442 282 20 44

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: RNase A  
Product Code: E1070  
CAS Number: 9001-99-4  
EC Number: 232-646-6

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Turkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
Respiratory sensitization (Category 1), H334

#### 2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EC]  
Pictogram:



Signal word: Danger

Hazard statement(s)

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P284 : Wear respiratory protection.

P501 : Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard

Statement(s) : None

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Possible sensitizer.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

## EcoZyme RNase A

Synonyms: Ribonuclease 3-pyrimidinooligonucleotidohydrolase  
RNase A  
Pancreatic Ribonuclease

Concentration: <= 100 %

Formula: -

Molecular Weight: 13.683 g/mol

| Component                           | CAS-No.   | Classification      | Concentration |
|-------------------------------------|-----------|---------------------|---------------|
| ribonuclease (from bovine pancreas) | 9001-99-4 | Resp. Sens. 1; H334 | <= 100 %      |

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

If inhaled: Move to fresh air. Call in physician.

If swallowed: Immediately make victim drink water (two glasses at most). Consult a physician.

In case of skin contact: If on skin, rinse well with water.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

No information available.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protective equipment. Avoid formation of dust. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Do not let product enter drains.

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

Cover drains. Collect bind, and pump off spills. Keep in suitable, closed containers for disposal. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Advice on safe handling

Work under hood. Do not inhale substance.

### 7.2 Precautions for safe handling

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

### 7.3 Conditions for safe storage, including any incompatibilities

Keep tightly closed. Protect from light.

See label, package insert or internal guidelines.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with workplace control parameters.

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

#### Personal protective equipment

**Eye/face protection:** Wear safety glasses with side-shields conforming to European Standard EN166.

**Hand protection:** Wear protective gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing.

**Respiratory protection:** No personal respiratory protective equipment normally required. Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| a) Appearance:                                       | White powder, (lyophilized) |
| b) Odor:                                             | No data available           |
| c) Odor Threshold:                                   | No data available           |
| d) pH:                                               | No data available           |
| 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           |
| i) Flammability (solid, gas):                        | No data available           |
| j) Upper / lower flammability or explosive limits:   | No data available           |
| k) Vapor pressure:                                   | No data available           |
| l) Vapor density:                                    | No data available           |
| m) Relative density:                                 | No data available           |
| n) Solubility(ies):                                  | No data available           |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available           |
| p) Auto-ignition temperature:                        | No data available           |
| q) Decomposition temperature:                        | No data available           |
| r) Viscosity:                                        | No data available           |
| s) Explosive properties:                             | No data available           |
| t) Oxidizing properties:                             | None                        |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

**Reactivity:** The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products:** No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

- |                                       |                                                |
|---------------------------------------|------------------------------------------------|
| a) Acute toxicity:                    | Not classified based on available information. |
| b) Skin corrosion / irritation:       | Not classified based on available information. |
| c) Serious eye damage/eye irritation: | Not classified based on available information. |
| d) Carcinogenicity:                   | Not classified based on available information. |
| e) Reproductive toxicity:             | Not classified based on available information. |
| f) STOT - SE:                         | Not classified based on available information. |
| g) STOT - RE:                         | Not classified based on available information. |
| h) Aspiration hazard:                 | Not classified based on available information. |

## 11.2 Potential health effects

|                    |                                          |
|--------------------|------------------------------------------|
| <b>Ingestion:</b>  | May be harmful if swallowed.             |
| <b>Inhalation:</b> | May be harmful if inhaled.               |
| <b>Skin:</b>       | May be harmful if absorbed through skin. |
| <b>Eyes:</b>       | May be harmful if in contact with eyes.  |

### 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

## 12.1 Ecotoxicity

No data available

## 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

## Product

Can be disposed as waste water, when in compliance with local regulations.

### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: -                      IMDG: -                      IATA: -

#### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -                      IMDG: -                      IATA: -

## 14.4 Packaging group

ADR/RID: -      IMDG: -      IATA: -

**14.5 Environmental hazards**

ADR/RID: No

IMDG: No

IATA: No

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16. OTHER INFORMATION****Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Resuspension Buffer  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                       |               |
|-----------------------|---------------|
| Physical hazards      | Not Hazardous |
| Health hazards        | Not Hazardous |
| Environmental hazards | Not Hazardous |

#### 2.2 Label elements

|                                       |                |
|---------------------------------------|----------------|
| Symbols/Pictograms                    | None           |
| Signal word                           | None           |
| Hazard statements                     | Not Applicable |
| Precautionary Statements - Prevention | Not Applicable |
| Precautionary Statements – Response   | Not Applicable |

#### 2.3 Other hazards

Not Applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Resuspension Buffer

Synonyms: -  
Concentration: -  
Formula: -  
Molecular Weight: -

This product is a mixture.

#### 3.2 Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                      |
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                         |
| Inhalation                         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| Ingestion                          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                              |

### Most important symptoms and effects, both acute and delayed

Symptoms Not Applicable

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                                            |

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

|                                            |           |
|--------------------------------------------|-----------|
| Specific hazards arising from the chemical | Not known |
|--------------------------------------------|-----------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

### 5.4 Protective equipment and precautions for firefighters

|                         |                                        |
|-------------------------|----------------------------------------|
| Advice for firefighters | Standard procedure for chemical fires. |
|-------------------------|----------------------------------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

|                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | Soak up with inert absorbent material. |
|-------------------------|----------------------------------------|

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.  
Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

Wash hands, forearms and face after handling.

### Personal protective equipment

**Eye/face protection:** Tight sealing safety goggles.

**Hand protection:** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

**Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                   |
|------------------------------------------------------|-------------------|
| a) Appearance:                                       | Liquid            |
| b) Odor:                                             | No data available |
| c) Odor Threshold:                                   | No data available |
| d) pH:                                               | 8.2               |
| 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 |
| i) Flammability (solid, gas):                        | No data available |
| j) Upper / lower flammability or explosive limits:   | No data available |
| k) Vapor pressure:                                   | No data available |
| l) Vapor density:                                    | No data available |
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

**Reactivity:** None known.

**Chemical stability:** Stable at a cool and dry place.

**Possibility of hazardous reactions:** Hazardous reaction has not been reported.

**Conditions to avoid:** No information available.

**Incompatible materials:** No dangerous reaction known under conditions of normal use.

**Hazardous decomposition products:** No data available.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| a) Acute toxicity:                    | There is no evidence available indicating acute toxicity. |
| b) Skin corrosion / irritation:       | Data are conclusive but insufficient for classification.  |
| c) Serious eye damage/eye irritation: | Data are conclusive but insufficient for classification.  |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification.  |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification.  |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification.  |

g) STOT - RE: Data are conclusive but insufficient for classification.  
h) Aspiration hazard: Data are conclusive but insufficient for classification.

## 11.2 Potential health effects

**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.

## 11.3 Additional Information

No additional information is available

# SECTION 12. ECOLOGICAL INFORMATION

## 12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# SECTION 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

# Section 14. TRANSPORT INFORMATION

## 14.1 DOT (US)

Not regulated in the meaning of transport regulations.

## 14.2 IMDG

Not regulated in the meaning of transport regulations

## 14.3 IATA

Not regulated in the meaning of transport regulations

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

# SECTION 15. REGULATORY INFORMATION

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None. |

## 15.2 Environmental hazards

Not Applicable

### **15.3 Chemical safety assessment**

No Chemical safety assessment has been carried out.

## **SECTION 16. OTHER INFORMATION**

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Tissue Lysis Buffer  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Turkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Physical hazards Not Hazardous  
Health hazards Not Hazardous  
Environmental hazards Not Hazardous

#### 2.2 Label elements

Symbols/Pictograms None  
Signal word None  
Hazard statements Not Applicable  
Precautionary Statements - Prevention Not Applicable  
Precautionary Statements - Response Not Applicable

#### 2.3 Other hazards

Not Applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Tissue Lysis Buffer  
Synonyms: -  
Concentration: -  
Formula: -  
Molecular Weight: -  
This product is a mixture.

#### 3.2 Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                      |
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                         |
| Inhalation                         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| Ingestion                          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                              |

### Most important symptoms and effects, both acute and delayed

Symptoms Not Applicable

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                                            |

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

|                                            |           |
|--------------------------------------------|-----------|
| Specific hazards arising from the chemical | Not known |
|--------------------------------------------|-----------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

### 5.4 Protective equipment and precautions for firefighters

|                         |                                        |
|-------------------------|----------------------------------------|
| Advice for firefighters | Standard procedure for chemical fires. |
|-------------------------|----------------------------------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

|                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | Soak up with inert absorbent material. |
|-------------------------|----------------------------------------|

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.  
Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

Wash hands, forearms and face after handling.

### Personal protective equipment

**Eye/face protection:** Tight sealing safety goggles.

**Hand protection:** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

**Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                   |
|------------------------------------------------------|-------------------|
| a) Appearance:                                       | Liquid            |
| b) Odor:                                             | No data available |
| c) Odor Threshold:                                   | No data available |
| d) pH:                                               | 7.4               |
| 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 |
| i) Flammability (solid, gas):                        | No data available |
| j) Upper / lower flammability or explosive limits:   | No data available |
| k) Vapor pressure:                                   | No data available |
| l) Vapor density:                                    | No data available |
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

|                                            |                                                             |
|--------------------------------------------|-------------------------------------------------------------|
| <b>Reactivity:</b>                         | None known.                                                 |
| <b>Chemical stability:</b>                 | Stable at a cool and dry place.                             |
| <b>Possibility of hazardous reactions:</b> | Hazardous reaction has not been reported.                   |
| <b>Conditions to avoid:</b>                | No information available.                                   |
| <b>Incompatible materials:</b>             | No dangerous reaction known under conditions of normal use. |
| <b>Hazardous decomposition products:</b>   | No data available.                                          |

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| a) Acute toxicity:                    | There is no evidence available indicating acute toxicity. |
| b) Skin corrosion / irritation:       | Data are conclusive but insufficient for classification.  |
| c) Serious eye damage/eye irritation: | Data are conclusive but insufficient for classification.  |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification.  |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification.  |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification.  |

g) STOT - RE: Data are conclusive but insufficient for classification.  
h) Aspiration hazard: Data are conclusive but insufficient for classification.

## 11.2 Potential health effects

**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.

## 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 DOT (US)

Not regulated in the meaning of transport regulations.

### 14.2 IMDG

Not regulated in the meaning of transport regulations

### 14.3 IATA

Not regulated in the meaning of transport regulations

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

## SECTION 15. REGULATORY INFORMATION

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None. |

### 15.2 Environmental hazards

Not Applicable

### **15.3 Chemical safety assessment**

No Chemical safety assessment has been carried out.

## **SECTION 16. OTHER INFORMATION**

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Wash Buffer 1 (concentrate)  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                       |                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical hazards      | Not classified                                                                                                                                                 |
| Health hazards        | Acute oral toxicity Category 4, Skin corrosion/irritation Category 2,<br>Acute inhalation toxicity Category 4, Serious eye damage/eye<br>irritation Category 2 |
| Environmental hazards | Not classified                                                                                                                                                 |

#### 2.2 Label elements

Symbols/Pictograms



Signal word

Hazard statements

Warning

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye  
protection/face protection

P270 - Do not eat, drink or smoke when using this product

## Precautionary Statements – Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P330 - Rinse mouth  
P332 + P313 - If skin irritation occurs: Get medical advice/attention

### 2.3 Other hazards

Not Applicable

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Product Name

Wash Buffer 1 (concentrate)

Synonyms: -

Concentration: concentrate

Formula: -

Molecular Weight: -

This product is a mixture.

### 3.2 Mixture

| Chemical Name           | CAS No  | Weight % |
|-------------------------|---------|----------|
| Guanidine hydrochloride | 50-01-1 | 60-70    |

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                        |
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                          |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                           |
| Inhalation                         | Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a doctor.                                       |
| Ingestion                          | Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                                |

### Most important symptoms and effects, both acute and delayed

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| Symptoms | H302 - Harmful if swallowed<br>H314 - Causes severe skin burns and eye damage |
|----------|-------------------------------------------------------------------------------|

### Indication of any immediate medical attention and special treatment needed

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                               |

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

|                                            |                           |
|--------------------------------------------|---------------------------|
| Specific hazards arising from the chemical | No information available. |
|--------------------------------------------|---------------------------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

## 5.4 Protective equipment and precautions for firefighters

Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

Methods for cleaning up                      Soak up with inert absorbent material.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.

Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not

Available

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

Wash hands, forearms and face after handling.

#### Personal protective equipment

##### Eye/face protection:

Tight sealing safety goggles.

##### Hand protection:

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

##### Skin and body protection:

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

##### Respiratory protection:

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                    |                   |
|----------------------------------------------------|-------------------|
| a) Appearance:                                     | Liquid            |
| b) Odor:                                           | No data available |
| c) Odor Threshold:                                 | No data available |
| d) pH:                                             | 4.8               |
| 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 |
| i) Flammability (solid, gas):                      | No data available |
| j) Upper / lower flammability or explosive limits: | No data available |
| k) Vapor pressure:                                 | No data available |
| l) Vapor density:                                  | No data available |

|                                                      |                   |
|------------------------------------------------------|-------------------|
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

|                                            |                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | Not applicable.                                                                                                              |
| <b>Chemical stability:</b>                 | Stable at a cool and dry place.                                                                                              |
| <b>Possibility of hazardous reactions:</b> | Hazardous reaction has not been reported.                                                                                    |
| <b>Conditions to avoid:</b>                | Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. |
| <b>Incompatible materials:</b>             | No dangerous reaction known under conditions of normal use.                                                                  |
| <b>Hazardous decomposition products:</b>   | Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ). Sulphur oxides.                                                           |

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### a) Acute toxicity:

| Component               | LD50 Oral       | LD50 Dermal | LC50 Inhalation |
|-------------------------|-----------------|-------------|-----------------|
| Guanidine hydrochloride | 354 mg/kg (Rat) | 1100 mg/kg  | 11 mg/14h       |

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| b) Skin corrosion / irritation:       | Skin irritation.                                         |
| c) Serious eye damage/eye irritation: | Irritating to eyes.                                      |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification. |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification. |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification. |
| g) STOT - RE:                         | Data are conclusive but insufficient for classification. |
| h) Aspiration hazard:                 | Data are conclusive but insufficient for classification. |

### 11.2 Potential health effects

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| <b>Ingestion:</b>  | May be harmful if swallowed.                                        |
| <b>Inhalation:</b> | May be harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Skin:</b>       | May be harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes:</b>       | May cause eye irritation.                                           |

### 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

The environmental impact of this product has not been fully investigated.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Waste treatment methods**

### **Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### **Contaminated packaging**

Dispose of as unused product. Do not reuse empty containers.

## **Section 14. TRANSPORT INFORMATION**

### **14.1 DOT (US)**

Not regulated in the meaning of transport regulations.

### **14.2 IMDG**

Not regulated in the meaning of transport regulations.

### **14.3 IATA**

Not regulated in the meaning of transport regulations.

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

## **SECTION 15. REGULATORY INFORMATION**

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None  |

### **15.2 Environmental hazards**

|                         |                                              |
|-------------------------|----------------------------------------------|
| Guanidine hydrochloride | Hazard class 1 - slightly hazardous to water |
|-------------------------|----------------------------------------------|

## **SECTION 16. OTHER INFORMATION**

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail

## Safety Data Sheet (SDS)

Revision Date:  
01 April 2022

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Wash Buffer 2 (concentrated)  
Product Code: E1070  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology  
Address: Universite Mah. İpekyolu Cad. Ata Teknokent A.Ş. B Blok No: 20/113 Yakutiye/Erzurum  
Türkiye  
Tel/Fax: 0090 442 282 20 44  
Emergency  
phone number: 0090 553 828 76 90

#### 1.3 Product use

For research use only. Not intended for diagnostic or therapeutic use.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                       |               |
|-----------------------|---------------|
| Physical hazards      | Not Hazardous |
| Health hazards        | Not Hazardous |
| Environmental hazards | Not Hazardous |

#### 2.2 Label elements

|                                       |                |
|---------------------------------------|----------------|
| Symbols/Pictograms                    | None           |
| Signal word                           | None           |
| Hazard statements                     | Not Applicable |
| Precautionary Statements - Prevention | Not Applicable |
| Precautionary Statements – Response   | Not Applicable |

#### 2.3 Other hazards

Not Applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Wash Buffer 2 (concentrated)

Synonyms: -

Concentration: concentrated

Formula: -

Molecular Weight: -

This product is a mixture.

#### 3.2 Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                      |
| Eye contact                        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| Skin Contact                       | Rinse skin with water. Immediate medical attention is not required.                                                                         |
| Inhalation                         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| Ingestion                          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                              |

### Most important symptoms and effects, both acute and delayed

Symptoms Not Applicable

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| Unsuitable Extinguishing     | No information available                                            |

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

|                                            |           |
|--------------------------------------------|-----------|
| Specific hazards arising from the chemical | Not known |
|--------------------------------------------|-----------|

### 5.3 Explosion data

|                                  |                           |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | No information available. |
| Sensitivity to Static Discharge  | No information available. |

### 5.4 Protective equipment and precautions for firefighters

|                         |                                        |
|-------------------------|----------------------------------------|
| Advice for firefighters | Standard procedure for chemical fires. |
|-------------------------|----------------------------------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment

### 6.2 Environmental precautions

No special environmental precautions required.

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

|                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | Soak up with inert absorbent material. |
|-------------------------|----------------------------------------|

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.  
Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

Wash hands, forearms and face after handling.

### Personal protective equipment

**Eye/face protection:** Tight sealing safety goggles.

**Hand protection:** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Skin and body protection:** Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

**Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                   |
|------------------------------------------------------|-------------------|
| a) Appearance:                                       | Liquid            |
| b) Odor:                                             | No data available |
| c) Odor Threshold:                                   | No data available |
| d) pH:                                               | 7.5               |
| 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 |
| i) Flammability (solid, gas):                        | No data available |
| j) Upper / lower flammability or explosive limits:   | No data available |
| k) Vapor pressure:                                   | No data available |
| l) Vapor density:                                    | No data available |
| m) Relative density:                                 | No data available |
| n) Solubility(ies):                                  | No data available |
| o) Partition coefficient: <i>n</i> -octanol / water: | No data available |
| p) Auto-ignition temperature:                        | No data available |
| q) Decomposition temperature:                        | No data available |
| r) Viscosity:                                        | No data available |
| s) Explosive properties:                             | No data available |
| t) Oxidizing properties:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

**Reactivity:** None known.

**Chemical stability:** Stable at a cool and dry place.

**Possibility of hazardous reactions:** Hazardous reaction has not been reported.

**Conditions to avoid:** No information available.

**Incompatible materials:** No dangerous reaction known under conditions of normal use.

**Hazardous decomposition products:** No data available.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| a) Acute toxicity:                    | There is no evidence available indicating acute toxicity. |
| b) Skin corrosion / irritation:       | Data are conclusive but insufficient for classification.  |
| c) Serious eye damage/eye irritation: | Data are conclusive but insufficient for classification.  |
| d) Carcinogenicity:                   | Data are conclusive but insufficient for classification.  |
| e) Reproductive toxicity:             | Data are conclusive but insufficient for classification.  |
| f) STOT - SE:                         | Data are conclusive but insufficient for classification.  |

- g) STOT - RE: Data are conclusive but insufficient for classification.  
h) Aspiration hazard: Data are conclusive but insufficient for classification.

## 11.2 Potential health effects

**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.

## 11.3 Additional Information

No additional information is available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 DOT (US)

Not regulated in the meaning of transport regulations.

### 14.2 IMDG

Not regulated in the meaning of transport regulations

### 14.3 IATA

Not regulated in the meaning of transport regulations

|                            |                |
|----------------------------|----------------|
| UN number                  | Not Applicable |
| UN proper shipping name    | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group              | Not Applicable |

## SECTION 15. REGULATORY INFORMATION

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

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Substances of Very High Concern                                    | None. |
| Substance subject to authorisation per REACH Annex XIV             | None  |
| Restricted substances under EC 1907/2006, Annex XVII               | None. |
| Substances listed under Annex I of Regulation (EC) No 689/2008     | None. |
| Restricted substances under Annex V of Regulation (EC) No 689/2008 | None. |

### 15.2 Environmental hazards

Not Applicable

### **15.3 Chemical safety assessment**

No Chemical safety assessment has been carried out.

## **SECTION 16. OTHER INFORMATION**

### **Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail