

Universite Mah. Cat Yolu Cad. Ata Teknokent Sitesi  
B Blok No: 74/113 Yakutiye Erzurum Turkiye  
Tel: 0090 544 327 34 97  
Fax: 0090 442 282 20 06 -124

## Safety Data Sheet (SDS)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Laemmli Sample Buffer (4x)  
Product Code: LSB-4x  
CAS Number: -  
EC Number: -

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

Company: EcoTech Biotechnology  
Address: Universite Mah. Cat Yolu Cad. Ata Teknokent Sitesi B Blok No: 74/113 Yakutiye Erzurum  
Turkiye  
Telephone: 0090 544 327 34 97  
Fax: 0090 442 282 20 06 -124  
Emergency  
Phone Number: 0090 544 327 34 97

#### 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 [EU-GHS/CLP]  
Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

#### 2.2 Label elements

Labeling according Regulation (EC) No1272/2008[EU-GHS/CLP]  
Pictogram None  
Signal word None  
Hazard statement(s) None  
Precautionary Statements(s) None

#### 2.3 Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

Laemmli Sample Buffer (4x)  
Synonyms: -  
Concentration: 4x  
Formula: -  
Molecular Weight: -  
This product is a mixture.

#### 3.2 Mixture

No components need to be disclosed according to the applicable regulations.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|                                    |                                                                                                                                                                                                                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | If symptoms persist, call a physician.                                                                                                                                                                                                                                                                     |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. |
| Skin Contact                       | Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse.                                                                                                                                                                                                |
| Inhalation                         | If breathed in, move person into fresh air. Seek medical advice if discomfort occurs.                                                                                                                                                                                                                      |
| Ingestion                          | Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Seek medical attention.                                                                                                                                                           |
| Self-protection of the first aider | Use personal protective equipment as required.                                                                                                                                                                                                                                                             |

## 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

|                                            |                           |
|--------------------------------------------|---------------------------|
| 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 | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Use with local exhaust ventilation.

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

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

Recommended storage temperature 22- 25 °C

## 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:** Wear safety glasses with side-shields conforming to European Standard EN166.

**Hand protection:** Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

**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:** Wear suitable respiratory equipment in case of inadequate ventilation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                      |                   |
|------------------------------------------------------|-------------------|
| a) Appearance:                                       | Liquid            |
| b) Odor:                                             | Odorless          |
| 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:                             | No data available |

## SECTION 10. STABILITY AND REACTIVITY

### Stability and reactivity

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| <b>Reactivity:</b>                         | Stable                          |
| <b>Chemical stability:</b>                 | Stable at a cool and dry place. |
| <b>Possibility of hazardous reactions:</b> | No data available               |
| <b>Conditions to avoid:</b>                | No data available               |
| <b>Incompatible materials:</b>             | Oxidizing agents                |
| <b>Hazardous decomposition products:</b>   | No data available               |

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

a) Acute toxicity:

| Component                      | LD50 Oral        | LD50 Dermal        | LD50 Inhalation      |
|--------------------------------|------------------|--------------------|----------------------|
| Sodium Dodecyl Sulfate (Solid) | 1288 mg/kg (Rat) | 580 mg/kg (Rabbit) | 3900 mg/m3 (Rat)-1 h |

- b) Skin corrosion / irritation: No skin/corrosion irritation data available.  
c) Serious eye damage/eye irritation: Product causes serious eye damage.  
d) Carcinogenicity: None of the ingredients is listed.

IARC : Product and components are not regulated by the IARC.

ACGIH : Product and components are not regulated by the ACGIH.

NTP : Product and components are not regulated by the NTP.

OSHA : Product and components are not regulated by OSHA.

- e) Reproductive toxicity: No data available  
f) STOT - SE: No data available  
g) STOT - RE: No data available  
h) Aspiration hazard: No data available

### 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:** Causes serious 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.

| Component                      | Toxicity to fish                             |
|--------------------------------|----------------------------------------------|
| Sodium Dodecyl Sulfate (Solid) | LC50 15-18.9 mg/L Pimephales promelas 96 h   |
|                                | LC50 4.06-5.75 mg/L Lepomis macrochirus 96 h |
|                                | LC50 4.2-4.8 mg/L Lepomis macrochirus 96 h   |
|                                | LC50 6.2-9.6 mg/L Pimephales promelas 96 h   |
|                                | LC50= 4.2 mg/L Oncorhynchus mykiss 96 h      |
|                                | LC50 13.5-18.3 mg/L Poecilia reticulata 96 h |
|                                | LC50 5.8-7.5 mg/L Pimephales promelas 96 h   |
|                                | LC50 9.9-20.1 mg/L Brachydanio rerio 96 h    |
|                                | LC50 10.2-22.5 mg/L Pimephales promelas 96 h |
|                                | LC50 8-12.5 mg/L Pimephales promelas 96 h    |
|                                | LC50= 4.5 mg/L Lepomis macrochirus 96 h      |
|                                | LC50= 4.62 mg/L Oncorhynchus mykiss 96 h     |
|                                | LC50 10.8-16.6 mg/L Poecilia reticulata 96 h |
|                                | LC50 22.1-22.8 mg/L Pimephales promelas 96 h |
|                                | LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h   |
|                                | LC50= 1.31 mg/L Cyprinus carpio 96 h         |
|                                | LC50= 7.97 mg/L Brachydanio rerio 96 h       |

### 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**

PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

## **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.

### **14.2 IMDG**

Not regulated.

### **14.3 IATA**

Not regulated.

## **SECTION 15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

### **15.1 SARA**

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.  
SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: No SARA Hazard

### **15.2 Clean water act (CWA)**

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

### **15.3 Right to know components**

Massachusetts : No chemicals are present which require disclosure under the Massachusetts Right to Know Act.

Pennsylvania : No chemicals are present which require disclosure under the Pennsylvania Right to Know Act.

New Jersey : No chemicals are present which require disclosure under the New Jersey Right to Know Act.

## **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