

## 10x Laemmli Sample Buffer

**Cat#: orb1109250 (MSDS)**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: 10x Laemmli Sample Buffer

CAS Number: -

EC Number: -

#### 1.2 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]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### 2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram: None

Signal word: None

Hazard statement(s): None

Precautionary statement(s): None

#### 2.3 Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Product Name

10x Laemmli Sample Buffer

Synonyms: -

Concentration: -

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

If inhaled: If breathed in, move person into fresh air. Seek medical advice if discomfort occurs.

If swallowed: Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

In case of skin contact: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.

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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Nature of decomposition products not known.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

## 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

Do not let product enter 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

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

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

Keep tightly closed. Store in a cool, 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: *n*-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:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** 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/m <sup>3</sup> (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 a dangerous good under DOT(US) regulations.

**14.2 IMDG**

Not a dangerous good under IMDG regulations.

**14.3 IATA**

Not a dangerous good under IATA regulations.

## 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

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