# **SAFETY DATA SHEET**



Revision date 06-Feb-2024 Revision Number 1.3

# 1. Identification

**Product identifier** 

Product Name 2X Laemmli Sample Buffer

Other means of identification

Catalog Number(s) 1610737, 1610737EDU, 1610737XTU

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

Details of the supplier of the safety data sheet

Corporate Headquarters Manufacturer Address Legal Entity / Contact Address

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories, Life Science Group

Bio-Rad Laboratories

1000 Alfred Nobel Drive

Bio-Rad Laboratories

2000 Alfred Nobel Drive

Life Science

Hercules, CA 94547 Hercules, California 94547 2000 Alfred Nobel Drive USA Hercules, California 94547 Hercules, California 94547

Technical Service 1-800-424-6723

support@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA: 1 (800) 424-9300

# 2. Hazard(s) identification

#### Classification

Serious eye damage/eye irritation Category 2A

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Warning

### Hazard statements

Causes serious eye irritation



Appearance Liquid Physical state Liquid Odor Odorless

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#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection/ face protection Avoid release to the environment

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other information

May be harmful if inhaled. Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
1,2,3-Propanetriol	56-81-5	20 - 35	*
Sodium lauryl sulfate	151-21-3	1 - 2.5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may

cause redness and irritation.

Indication of any immediate medical attention and special treatment needed

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5. Fire-fighting measures

surrounding environment.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls/personal protection

Control parameters

**Exposure Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name ACGIH TLV OSHA PEL NIOSH

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1,2,3-Propanetriol	- TWA: 15 mg/m³ mist, total -
56-81-5	particulate
	TWA: 5 mg/m³ mist, respirable
	fraction
	(vacated) TWA: 10 mg/m³ mist,
	total particulate
	(vacated) TWA: 5 mg/m³ mist,
	respirable fraction

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection**Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColorlight blueOdorOdorless

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 6-7

Melting point / freezing point No data available None known

Initial boiling point and boiling range100 °C / 212 °F

Flash point No data available None known Evaporation rate No data available None known Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownRelative vapor densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies) No data available None known
Partition coefficient No data available None known

Autoignition temperature 248 °C / 478.4 °F

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

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Dynamic viscosity No data available None known

Other information

Explosive properties
Oxidizing properties
No information available
VOC content
No information available
No information available
No information available
No information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

### 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May be harmful if inhaled.

Eye contact Specific test data for the substance or mixture is not available Causes serious eye irritation

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation. Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

**Acute toxicity** 

**Numerical measures of toxicity** 

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 61,333.30 mg/kg ATEmix (inhalation-dust/mist) 46.40 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h

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i	56-81-5	<u> </u>		
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	Sodium lauryl sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg ( Rabbit )	> 3900 mg/m³ (Rat) 1 h
	151-21-3			

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients. Causes mild

skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity**No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Target organ effects** Kidney, Respiratory system, Eyes, Skin.

Aspiration hazard

Other adverse effects

No information available.

Interactive effects

No information available.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		
Sodium lauryl sulfate	EC50: =53mg/L (72h,	LC50: 15 - 18.9mg/L (96h,	-	EC50: =1.8mg/L (48h,
151-21-3	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: 8 - 12.5mg/L (96h,		
	EC50: 30 - 100mg/L (96h,	Pimephales promelas)		
	Desmodesmus	LC50: 22.1 - 22.8mg/L		
	subspicatus)	(96h, Pimephales		
	EC50: =117mg/L (96h,	promelas)		
	Pseudokirchneriella	LC50: 4.3 - 8.5mg/L (96h,		
	subcapitata)	Oncorhynchus mykiss)		
	EC50: 3.59 - 15.6mg/L	LC50: =4.62mg/L (96h,		
	(96h, Pseudokirchneriella			
	subcapitata)	LC50: =4.2mg/L (96h,		

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Oncorhynchus mykiss)
LC50: =7.97mg/L (96h,
Brachydanio rerio)
LC50: 9.9 - 20.1mg/L
(96h, Brachydanio rerio)
LC50: 4.06 - 5.75mg/L
(96h, Lepomis
macrochirus)
LC50: 4.2 - 4.8mg/L (96h,
Lepomis macrochirus)
LC50: =4.5mg/L (96h,
Lepomis macrochirus)
LC50: 5.8 - 7.5mg/L (96h,
Pimephales promelas)
LC50: 10.2 - 22.5mg/L
(96h, Pimephales
promelas)
LC50: 6.2 - 9.6mg/L (96h,
Pimephales promelas)
LC50: 13.5 - 18.3mg/L
(96h, Poecilia reticulata)
LC50: 10.8 - 16.6mg/L
(96h, Poecilia reticulata)
LC50: =1.31mg/L (96h,
Cyprinus carpio)

Persistence and degradability

No information available.

#### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
1,2,3-Propanetriol 56-81-5	-1.75
Sodium lauryl sulfate 151-21-3	1.6

Other adverse effects

No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

DOTNot regulatedTDGNot regulatedMEXNot regulated

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IATA Not regulated

IMDG Not regulated

# 15. Regulatory information

<u>International Inventories</u> Contact supplier for inventory compliance status

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
1,2,3-Propanetriol 56-81-5	X	X	X

#### U.S. EPA Label Information

# EPA Pesticide Registration Number Not applicable

10. Other information					
NEDA	Health hazards 2	Elemmobility 1	Instability 0	Special bazarda	
<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	Special hazards -	
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X	

16 Other information

Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 06-Feb-2024

**Revision Note** Reformatted and updated existing information.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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