

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name EZ Load Precision Molecular Mass Ruler Revision date 23-Aug-2023 Revision Number 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name

EZ Load Precision Molecular Mass Ruler

Mixture

Catalogue Number(s)

1708356, 1708356EDU

Other means of identification

Pure substance/mixture

Details of the supplier of the safety data sheet

Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	Manufacturer Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories Ltd. 1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini, Pathumwan, Bangkok 10330 Thailand
Technical Service	+66 2 652 8313	

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use

Laboratory chemicals

ctsthailand@bio-rad.com

SECTION 2: Hazards identification

	Emergency Overview No significant adverse health effects	
Appearance aqueous solution	Physical state Liquid	Odour Odourless
Classification of the substance or mixture		

Not classified

Label elements

Hazard statements Not classified

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: Not applicable. Chronic effects: Not applicable.

Environmental hazards

Not applicable

Other hazards which do not result in classification Not applicable

SECTION 3: Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Not classified.

Chemical name	Weight-%	CAS No
1,2,3-Propanetriol	5 - 10	56-81-5

SECTION 4: First aid measures	
escription of necessary first aid measures	

General advice	No hazards which require special first aid measures.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	No information available.
For emergency responders	No information available.
Note to doctors	Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the	No information available.
chemical	

Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	See section 8 for more information.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up	Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled containers.
Precautions to prevent secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. information on appropriate personal protective equipment.	See Section 8 for
Conditions for safe storage, including any incompatibilities	Store according to product and label instructions.	
Incompatible materials	None known based on information supplied.	

SECTION 8: Exposure controls/personal protection

<u>Occupational exposure limits</u> This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note

See section 16 for terms and abbreviations

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring and observation processes No applicable information was found.

Engineering controls

Showers Evewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves.
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	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties Appearance aqueous solution Colour blue **Physical state** Liquid Odour Odourless **Odour threshold** No information available Remarks • Method Property Values pН 8 Melting point / freezing point No data available None known **Boiling point / boiling range** > 100 °C Flash point No data available None known **Evaporation rate** No data available None known No data available Flammability (solid, gas) None known Flammability Limit in Air None known Upper flammability or explosive No data available limits No data available Lower flammability or explosive limits Vapour pressure No data available None known Vapour density No data available None known **Relative densitv** No data available None known Water solubility Miscible in water Solubility(ies) No data available None known Partition coefficient No data available None known Autoignition temperature No data available None known No data available None known **Decomposition temperature** No data available None known Kinematic viscosity **Dynamic viscosity** No data available None known Additional information **Explosive properties** Not applicable **Oxidising properties** Not applicable

SECTION 10: Stability and reactivity

<u>Stability</u>	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
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.

SECTION 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

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	
Skin corrosion/irritation	Based on available data, t	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritat	ion Based on available data, t	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitisation	on Based on available data, t	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, t	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, t	he classification criteria are not m	net.	
Reproductive toxicity	Based on available data, t	he classification criteria are not m	net.	
Specific target organ toxicity – single exposure	 Based on available data, t 	he classification criteria are not m	net.	
Specific target organ toxicity – repeated exposure	 Based on available data, t 	he classification criteria are not m	net.	
Target organ effects	Kidney. Respiratory system	m. Eyes. Skin.		
Aspiration hazard	Based on available data, t	he classification criteria are not m	net.	

SECTION 12: Ecological information

Ecotoxicity

Unknown aquatic toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-
		Oncorhynchus mykiss)	

Persistence and degradability No information available.

Bioaccumulative potential There is no data for this product.

Component Information

Chemical name	Partition coefficient
1,2,3-Propanetriol	-1.75

Mobility in soil

No information available.

SECTION 13: Disposal considerations

Waste chemicals	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IMDG Transport in bulk according to Annex II of MARPOL and the IB Code	Not regulated No information available C
IATA	Not regulated
<u>China</u>	Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

SECTION 15: Regulatory information

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

National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors: Catalogue of occupational diseases:	Not applicable. Not applicable.		
Regulations on the Control over Safety of Hazardous Chemicals Inventory of hazardous chemicals	Not applicable.		
GB 18218-2009 Identification of major hazard installations for dangerous chemicals	Not applicable		
List of hazardous chemicals under priority management	Not applicable		
Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used Inventory of highly toxic goods	Not applicable		
Regulations for Environmental Management on the First Import of Chemicals and the Chemicals	e Import and Export of Toxic		
List of toxic chemicals severely restricted for import and export in China	Not applicable		
Measures for the Environmental Management of New Chemical Substances IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.			
International Regulations			
The Mentreal Protocol on Substances that Deplete the Ozone Laver. Not applicable			

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Prepared By Bio-Rad Laboratories, Environmental Health and Safety Revision date 23-Aug-2023 Revision Note Significant changes throughout SDS. Review all sections. Abbreviations and acronyms Significant changes throughout SDS. Review all sections. Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL Streking Maximum limit value * Streking and	SECTION 16: Other information			
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International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian 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) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization				

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End of Safety Data Sheet