# SAFETY DATA SHEET



Revision date 10-May-2023 Revision Number 1.3

1. Identification

**Product identifier** 

Product Name Precision Plus Protein Dual Color Standards

Other means of identification

Catalog Number(s) 1610374, 1610374S, 1610394, 10022171, 1610374EDU, 1610374TGX

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 No information available Physical state Liquid Odor rotten

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**Precautionary Statements - Prevention** 

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection/ face protection

#### **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.

#### Mixture

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

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

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

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

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

Conditions for safe storage, including any incompatibilities

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

product and label instructions.

## 8. Exposure controls/personal protection

Control parameters

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

> 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

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

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

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

None known

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

not eat, drink or smoke when using this product.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Liquid

No information available **Appearance** 

Color blue Odor rotten

Odor threshold No information available

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

Melting point / freezing point No data available

Boiling point / boiling range 100 °C / 212 °F

160 °C / 320 °F Flash point

**Evaporation rate** No data available None known Flammability (solid, gas) No data available None known None known Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known No data available Vapor density None known Relative density 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

No data available **Decomposition temperature** None known Kinematic viscosity No data available None known

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No data available **Dynamic viscosity** None known

Other information

**Explosive properties** No information available Oxidizing properties No information available Softening point No information available Molecular weight No information available **VOC** content No information available **Liquid Density** No information available **Bulk density** No information available

## 10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions Avoid contact with metals. This product contains sodium azide. Sodium azide can react with

copper, brass, lead, and solder in piping systems to form explosive compounds and toxic

gases.

Conditions to avoid None known based on information supplied.

Incompatible materials Metals.

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.

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

(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

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

irritation.

**Acute toxicity** 

Numerical measures of toxicity

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

64,400.00 mg/kg ATEmix (oral) ATEmix (inhalation-dust/mist) 48.70 mg/l

#### **Component Information**

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Chemical name		Oral LD50	Dermal LD50	Inhalation LC50
Ī	1,2,3-Propanetriol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg(Rabbit)	> 2.75 mg/L (Rat)4 h
Ī	Sodium lauryl sulfate 151-21-3	= 1288 mg/kg(Rat)	= 200 mg/kg(Rabbit)	> 3900 mg/m³ (Rat) 1 h

## 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 No information available.

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	Crustacea
			microorganisms	
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,		

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(96h, Pseudokirchneriella	Oncorhynchus mykiss)	
subcapitata)	LC50: =4.2mg/L (96h,	
	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 1,2,3-Propanetriol 56-81-5		Partition coefficient		
		-1.75		
	Sodium lauryl sulfate 151-21-3	1.6		

Other adverse effects

No information available.

## 13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Flush pipes with water frequently if discarding solutions

containing sodium azide into metal piping systems.

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

US EPA Waste Number P105

## 14. Transport information

**DOT** Not regulated

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Not regulated **TDG** 

MEX Not regulated

IATA Not regulated

Not regulated **IMDG** 

## 15. Regulatory information

Contact supplier for inventory compliance status **International Inventories** 

#### **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	-	-	X
7732-18-5			
1,2,3-Propanetriol	X	X	X
56-81-5			
Sodium azide	X	X	X
26628-22-8			

#### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

# 16. Other information

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NFPA Health hazards 2 Flammability 1 Instability 0 Special hazards - HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 High Production Volume Chemicals Pro-

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

World Health Organization

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

**Disclaimer** 

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**End of Safety Data Sheet** 

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