

# **SAFETY DATA SHEET**

**Legal Entity / Contact Address** 

2000 Alfred Nobel Drive Hercules, California 94547

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 19-May-2025 Revision Number 1.2

# 1. Identification

**Product identifier** 

Product Name Precision Plus Protein All Blue Standards

Other means of identification

Catalog Number(s) 1610373, 1610373S, 1610373EDU, 1610393, 9724470, 9724469, 10022170

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

Restrictions on use No information available

Details of the supplier of the safety data sheet

Corporate Headquarters Manufacturer 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

1000 Alfred Nobel Drive
Hercules, CA 94547

2000 Alfred Nobel Drive
Hercules, California 94547

USA USA

**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 of the substance or mixture

Serious eye damage/eye irritation Category 2A

### Hazards not otherwise classified (HNOC)

Not applicable

**Label elements** 



Warning

Hazard statements

Causes serious eye irritation.

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

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and 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.

# Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

#### Other information

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.

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Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# 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.

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.

Conditions for safe storage, including any incompatibilities

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

product and label instructions.

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# 8. Exposure controls/personal protection

#### Working area parameters, subject to mandatory control (MAC or TSEL)

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

Biological occupational exposure

limits

This product, as supplied, contains materials that do not have reportable biological exposure limits or are not subject to the reporting requirements of the local jurisdiction.

#### 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** Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

None known

required.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** aqueous solution

Physical state Liquid
Color blue
Odor (includes odor threshold) Sulfurous

Property Values Remarks • Method

**pH** 6.8

Melting point / freezing point No data available

Initial boiling point and boiling range> 100 °C / 212 °F

Flash point > 160 °C / 320 °F

Evaporation rate No data available None known

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**Flammability** No data available None known None known

No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive

limits

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

Miscible in water Water solubility

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

**Autoignition temperature** 392.8 °C / 739.04 °F

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

Other information

# 10. Stability and reactivity

Reactivity No information available.

**Chemical stability** Stable under normal conditions.

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.

# 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.

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. 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** No information available.

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#### **Numerical measures of toxicity**

The following ATE values have been calculated for the mixture ATEmix (oral) 64,400.00 mg/kg

**Component Information** 

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3-Propanetriol 56-81-5	= 27200 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.85 mg/L (Rat)4 h
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**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	Crustacea
			microorganisms	
1,2,3-Propanetriol	<del>-</del>	LC50: 51 - 57mL/L (96h,	-	<del>-</del>
56-81-5		Oncorhynchus mykiss)		
Sodium lauryl sulfate	EC50: =53mg/L (72h,	LC50: 15 - 18.9mg/L	-	EC50: =1.8mg/L (48h,
151-21-3	Desmodesmus	(96h, Pimephales		Daphnia magna)

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	subspicatus)	promelas)	
	C50: 30 - 100mg/L	LC50: 8 - 12.5mg/L	
(9	96h, Desmodesmus	(96h, Pimephales	
	subspicatus)	promelas)	
	C50: =117mg/L (96h,	LC50: 22.1 - 22.8mg/L	
P	Pseudokirchneriella	(96h, Pimephales	
	subcapitata)	promelas)	
EC	C50: 3.59 - 15.6mg/L	LC50: 4.3 - 8.5mg/L	
	(96h,	(96h, Oncorhynchus	
P	Pseudokirchneriella	mykiss)	
	subcapitata)	LC50: =4.62mg/L (96h,	
		Oncorhynchus mykiss)	
		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** 

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

Other adverse effects

No information available.

# 13. Disposal considerations

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**Disposal 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.

# 14. Transport information

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

# 15. Regulatory information

#### International Regulations

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

International Inventories Contact supplier for inventory compliance status

**US Federal Regulations** 

#### TSCA

All chemical components are listed on the TSCA Inventory.

#### **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).

#### **CAA (Clean Air Act)**

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

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#### **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.

Revision date 19-May-2025

# **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

NFPA_	Health hazards 0	Flammability 0	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection -

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

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NOAEL No Observed Adverse Effect Level
OECD Organization for Economic Cooperation and Development
OEL Occupational exposure limits
OSHA Occupational Safety and Health Administration of the US Department of Labor
PBT Persistent, Bioaccumulative and Toxic substance
PMT Persistent, Mobile and Toxic
PPE Personal protective equipment
RID Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SARA Superfund Amendments and Reauthorization Act
SDS Safety Data Sheet
STEL Short Term Exposure Limit
STOT RE Specific target organ toxicity - Repeated exposure
STOT SE Specific target organ toxicity - Single exposure
TDG Transport of Dangerous Goods (Canada)
TSCA Toxic Substances Control Act (United States)
TWA Time-Weighted Average
UN United Nations
VOC Volatile organic compounds
vPvB Very Persistent and Very Bioaccumulative
vPvM Very Persistent and Very Mobile
Sk Skin notation

#### 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)

**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)

U.S. 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

**Prepared By**Bio-Rad Laboratories, Environmental Health and Safety.

Revision date 19-May-2025

**Revision Note** Significant changes throughout SDS. Review all sections.

**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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