# KIT SAFETY DATA SHEET



**Kit Product Name** MP TGX Gel with Protein Standard

Kit Catalogue Number(s) 4561085DC, 4561084DC, 4561086DC, 4561093DC, 4561094DC, 4561096DC

**Revision date** 02-Jun-2022

# Kit Contents

Catalogue Number(s)	Product Name
4561093, 4561094, 4561096, 4561091, 4561083, 4561086, 4561081,	Mini-PROTEAN TGX Gels 4-15%, 4-20%
4561083S, 4561093S, 4561081S, 4561086S, 4561091S, 4561094S,	
4561096S, 4561085, 4561085S, 4561089, 4561089S, 4561099,	
4561099S, 4561095, 4561095S, 4561101, 4561103, 4561104,	
4561105, 4561106, 4561109, 10017477, 10017478, 4561101EDU,	
4561103EDU, 4561105EDU, 4561106EDU, 4561109EDU,	
4561093EDU, 4561094EDU	
1610374, 1610374S, 1610394, 10022171, 1610374EDU, 1610374TGX	Precision Plus Protein Dual Color Standards

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# SAFETY DATA SHEET

Legal Entity / Contact Address

239/2, Rajdamri Road, Lumpini,

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building

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

Product Name Mini-PROTEAN TGX Gels 4-15%, 4-20%

Revision date 02-Jun-2022 Revision Number 1.3

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

**Product identifier** 

**Product Name** Mini-PROTEAN TGX Gels 4-15%, 4-20%

Catalogue Number(s) 4561093, 4561094, 4561096, 4561091, 4561083, 4561086, 4561081, 4561083S,

> 4561093S, 4561081S, 4561086S, 4561091S, 4561094S, 4561096S, 4561085, 4561085S, 4561089, 4561089S, 4561099, 4561099S, 4561095, 4561095S, 4561101, 4561103,

4561104, 4561105, 4561106, 4561109, 10017477, 10017478, 4561101EDU,

4561103EDU, 4561105EDU, 4561106EDU, 4561109EDU, 4561093EDU, 4561094EDU

Other means of identification

Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

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

### SECTION 2: Hazards identification

## **Emergency Overview**

No significant adverse health effects

Appearance gel Physical state Solid **Odour** Odourless

Classification of the substance or mixture

Not classified

Label elements

Hazard statements

Not classified

Mini-PROTEAN TGX Gels 4-15%, **Product Name** 

4-20%

Revision date 02-Jun-2022

#### 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.

#### **Mixture**

Not classified.

Chemical name	Weight-%	CAS No
1,2,3-Propanetriol	2.5 - 5	56-81-5

## **SECTION 4: First aid measures**

#### **Description 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.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed

No information available.

No information available. For emergency responders

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.

No information available. Unsuitable extinguishing media

Product Name Mini-PROTEAN TGX Gels 4-15%,

4-20%

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

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

Revision date 02-Jun-2022

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.

**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. See Section 8 for

information on appropriate personal protective equipment.

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

### Occupational exposure limits

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

Eyewash stations Ventilation systems.

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

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

Product Name Mini-PROTEAN TGX Gels 4-15%, Revision date 02-Jun-2022

4-20%

**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.

None known

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 gel
Colour colourless
Physical state Solid
Odour Odourless

Odour threshold No information available

Property Values Remarks • Method 6-7

Hq No data available Melting point / freezing point None known Boiling point / boiling range No data available None known None known Flash point No data available No data available None known **Evaporation rate** Flammability (solid, gas) No data available None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

**Lower flammability or explosive** No data available

limits

Vapour pressureNo data availableNone knownVapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Insoluble in water

No data available Solubility(ies) None known None known **Partition coefficient** No data available **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **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 impact None. Sensitivity to static discharge None.

**Conditions to avoid**None known based on information supplied.

Incompatible materials None known based on information supplied.

<u>Hazardous decomposition products</u> None known based on information supplied.

### SECTION 11: Toxicological information

4-20%

### Acute toxicity

### Numerical measures of toxicity

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

**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, the classification criteria are not met. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. Reproductive toxicity

Specific target organ toxicity single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity —

repeated exposure

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met. **Aspiration hazard** 

## **SECTION 12: Ecological information**

#### **Ecotoxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic Unknown aquatic toxicity 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	-1.76

Mobility in soil No information available.

## **SECTION 13: Disposal considerations**

Product Name Mini-PROTEAN TGX Gels 4-15%, Revision date 02-Jun-2022

4-20%

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 Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> 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 Import and Export of Toxic

Chemicals

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 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

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

4-20%

Revision date 02-Jun-2022

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

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### 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)

Japan GHS Classification

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **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** 



# SAFETY DATA SHEET

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

Product Name Precision Plus Protein Dual Color Standards

Revision date 18-Jan-2022 Revision Number 1.1

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

**Product identifier** 

**Product Name** Precision Plus Protein Dual Color Standards

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

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Legal Entity / Contact Address** Bio-Rad Laboratories, Life Science Group 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

ctsthailand@bio-rad.com

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

### **SECTION 2: Hazards identification**

## **Emergency Overview**

Irritating to skin Irritating to eyes

**Appearance** No information available Physical state Liquid Odour Rotten

### Classification of the substance or mixture

Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2A
Hazardous to the Aquatic Environment - Acute Hazard	Category 3
Hazardous to the Aquatic Environment - Chronic Hazard	Category 3

#### Label elements

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### Signal word

Warning

#### **Hazard statements**

Causes mild skin irritation
Causes serious eye irritation
Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

### Response

If skin irritation occurs: Get medical advice/attention

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

#### Disposal

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

#### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: Causes skin irritation (pain, redness and swelling). Causes severe irritation (tears, blurred vision and redness). Irritating, but will not permanently injure eye tissue.

Chronic effects: Not applicable.

### **Environmental hazards**

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimise use of water to prevent environmental contamination

#### Other hazards which do not result in classification

Not applicable

## **SECTION 3: Composition/information on ingredients**

#### Substance

Not applicable.

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

Chemical name	Weight-%	CAS No
Water	50 - 100	7732-18-5
1,2,3-Propanetriol	20 - 35	56-81-5
Sodium lauryl sulfate	1 - 2.5	151-21-3
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	0.3 - 0.999	3483-12-3
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	0.3 - 0.999	77-86-1
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-,	0.1 - 0.299	6381-92-6
disodium salt, dihydrate		

Product Name Precision Plus Protein Dual Color Revision date 18-Jan-2022

Standards

Sodium azide	0.01 - 0.099	26628-22-8
Proteins	0.001 - 0.01	NO-CAS-1

## **SECTION 4: First aid measures**

#### **Description of necessary 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** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a doctor.

Most important symptoms and

effects, both acute and delayed

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

cause redness and irritation.

For emergency responders Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

**Extinguishing media** 

surrounding environment.

**Unsuitable extinguishing media** No information available.

Specific hazards arising from the

chemical

No information available.

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** 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.

**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.

Precision Plus Protein Dual Color **Product Name** Revision date 18-Jan-2022

Standards

Precautions to prevent secondary Clean contaminated objects and areas thoroughly observing environmental regulations.

hazards

### SECTION 7: Handling and storage

Precautions for 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. See Section 8 for information on appropriate personal

protective equipment.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to

product and label instructions.

Incompatible materials Metals.

## SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

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

Chemical name	China	ACGIH TLV
Sodium azide - 26628-22-8	Ceiling: 0.3 mg/m <sup>3</sup> Ceiling	Ceiling: 0.29 mg/m³ Sodium azide Ceiling: 0.11 ppm Hydrazoic acid
		vapor

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.

Showers Engineering controls

> Eyewash 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.

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.

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.

## SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Product Name Precision Plus Protein Dual Color

Standards

Revision date 18-Jan-2022

Colour blue Physical state Liquid Odour Rotten

Odour threshold No information available

Property Values Remarks • Method

рΗ

Melting point / freezing point No data available

**Boiling point / boiling range** 100 °C **Flash point** 160 °C

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownVapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone known

Autoignition temperature No data available

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Additional information

Explosive properties Not applicable Oxidising properties Not applicable

## SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

<u>Possibility of hazardous reactions</u> 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

None known

toxic gases.

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

<u>Conditions to avoid</u> None known based on information supplied.

Incompatible materials Metals.

Hazardous decomposition products None known based on information supplied.

### SECTION 11: Toxicological information

**Acute toxicity** 

Numerical measures of toxicity

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

ATEmix (oral) 64,400.00 mg/kg ATEmix (inhalation-dust/mist) 48.80 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
1,2,3-Propanetriol	= 12600 mg/kg ( Rat )	> 10 g/kg(Rabbit)	> 2.75 mg/L (Rat) 4 h
Sodium lauryl sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	= 5900 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h

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

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

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity — single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity —

Based on available data, the classification criteria are not met.

repeated exposure

**Target organ effects** 

Kidney. Respiratory system. Eyes. Skin.

Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

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

**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)	-
Sodium lauryl sulfate	EC50: 3.59 - 15.6mg/L (96h, Pseudokirchneriella subcapitata) EC50: 30 - 100mg/L (96h, Desmodesmus subspicatus) EC50: =117mg/L (96h, Pseudokirchneriella subcapitata) EC50: =53mg/L (72h, Desmodesmus subspicatus)	LC50: 10.2 - 22.5mg/L (96h, Pimephales promelas) LC50: 10.8 - 16.6mg/L (96h, Poecilia reticulata) LC50: 13.5 - 18.3mg/L (96h, Poecilia reticulata) LC50: 15 - 18.9mg/L (96h, Pimephales promelas) LC50: 22.1 - 22.8mg/L (96h, Pimephales promelas) LC50: 4.06 - 5.75mg/L (96h, Lepomis macrochirus) LC50: 4.2 - 4.8mg/L (96h, Lepomis macrochirus) LC50: 4.3 - 8.5mg/L (96h,	EC50: =1.8mg/L (48h, Daphnia magna)

	Oncorhynchus mykiss)
	LC50: 5.8 - 7.5mg/L (96h,
	Pimephales promelas)
	LC50: 6.2 - 9.6mg/L (96h,
	Pimephales promelas)
	LC50: 8 - 12.5mg/L (96h,
	Pimephales promelas)
	LC50: 9.9 - 20.1mg/L (96h,
	Brachydanio rerio)
	LC50: =1.31mg/L (96h,
	Cyprinus carpio)
	LC50: =4.2mg/L (96h,
	Oncorhynchus mykiss)
	LC50: =4.5mg/L (96h, Lepomis
	macrochirus)
	l ' '
	LC50: =4.62mg/L (96h,
	Oncorhynchus mykiss)
	LC50: =7.97mg/L (96h,
	Brachydanio rerio)
Sodium azide	- LC50: =0.7mg/L (96h, Lepomis   -
	macrochirus)
	LC50: =0.8mg/L (96h,
	Oncorhynchus mykiss)
	LC50: =5.46mg/L (96h,
	Pimephales promelas)

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
1,2,3-Propanetriol	-1.76
Sodium lauryl sulfate	1.6

Mobility in soil No information available.

## **SECTION 13: Disposal considerations**

Waste chemicals Flush pipes with water frequently if discarding solutions containing Sodium azide into metal

piping systems. 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**

<u>IMDG</u> Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

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**

Product Name Precision Plus Protein Dual Color

Standards

Revision date 18-Jan-2022

#### 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.

Chemical name	Inventory of hazardous chemicals
Sodium azide	Listed, Highly toxic

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 Import and Export of Toxic Chemicals

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 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

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 18-Jan-2022

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

### Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

C Carcinogen

### 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)

Revision date 18-Jan-2022

Japan GHS Classification

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

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**End of Safety Data Sheet**