## 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

KITE / BE

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## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Revision date** 02-Jun-2022 **Previous** 11-Jan-2021 Revision Number 1.2

revision date

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

#### 1.1. 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, 4561085S, 4561085S, 4561089, 4561089S, 4561099, 4561099S, 4561095, 4561095S, 4561101, 4561103,

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

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

Pure substance/mixture Mixture

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory chemicals

Uses advised against No information available

#### 1.3. 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, California 94547

USA

USA

Hercules, CA 94547

**Legal Entity / Contact Address** 

The Junction Station Road Watford, WD17 1ET

Bio-Rad Laboratories Pvt. Ltd.

**Bio-Rad House** 

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

For further information, please contact

00800 00246 723 **Technical Service** 

> Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

> CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] **Hazard statements** 

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.3. Other hazards

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

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No	Classification	Specific	M-Factor	M-Factor
		number		according to Regulation (EC) No.	concentration limit (SCL)		(long-term)
				1272/2008 [CLP]	IIIIII (GCL)		
1,2,3-Propanetriol 56-81-5	2.5 - 5	No data available	200-289-5	No data available	-	-	-
Trade secret	1 - 2.5	No data available	.?	No data available	-	-	-

## Full text of H- and EUH-phrases: see section 16

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
	mg/kg	mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
1,2,3-Propanetriol 56-81-5	12600	10000	2.75	No data available	No data available
Trade secret	7930	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

## 4.1. Description of 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 physician.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

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

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

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

gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

**For emergency responders**Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. 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**Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store according to product and label instructions.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulga	aria	Croatia
1,2,3-Propanetriol	-	-	TWA: 10 mg/m <sup>3</sup>	-		TWA: 10 mg/m <sup>3</sup>
56-81-5						
Chemical name	Cyprus	Czech Republic	Denmark	Esto	nia	Finland
1,2,3-Propanetriol	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10	mg/m³	TWA: 20 mg/m <sup>3</sup>
56-81-5		Ceiling: 15 mg/m <sup>3</sup>				
Chemical name	France	Germany	Germany MAK	Gree	ece	Hungary
1,2,3-Propanetriol	TWA: 10 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>	TWA: 10	mg/m³	-
56-81-5			Peak: 400 mg/m <sup>3</sup>			
Chemical name	Ireland	Italy	Italy REL	Latv	⁄ia	Lithuania
Trade secret	-	-	-	TWA: 5	mg/m³	-
Chemical name	Luxembourg	Malta	Netherlands	Norw	vay	Poland
1,2,3-Propanetriol	-	-	-	-		TWA: 10 mg/m <sup>3</sup>
56-81-5						
Chemical name	Portugal	Romania	Slovakia	Slove	enia	Spain
1,2,3-Propanetriol	TWA: 10 mg/m <sup>3</sup>	-	TWA: 11 mg/m <sup>3</sup>	TWA: 200	) mg/m³	TWA: 10 mg/m <sup>3</sup>
56-81-5				STEL: 400	0 mg/m <sup>3</sup>	
Chemical name	Chemical name Swe		Switzerland		Uni	ted Kingdom
1,2,3-Propanetriol		-	TWA: 50 mg/m	3	TWA: 10 mg/m <sup>3</sup>	
56-81-5			STEL: 100 mg/n	n <sup>3</sup> STEL: 30 mg/m <sup>3</sup>		EL: 30 mg/m <sup>3</sup>

## **Biological occupational exposure limits**

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

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

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

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolidAppearancegelColourcolourlessOdourOdourless.

Odour threshold No information available

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

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo 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

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

ъ**Н** 6-7

pH (as aqueous solution) No data available No information available

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Water solubility Insoluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative densityNo data availableNone known

Bulk density
No data available
Liquid Density
No data available

Vapour density No data available None known

**Particle characteristics** 

Particle SizeNo information availableParticle Size DistributionNo information available

### 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

Not applicable

### 9.2.2. Other safety characteristics

No information available

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

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

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Information on likely routes of exposure

## **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

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

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

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

**Symptoms** No information available.

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
Trade secret	= 7930 mg/kg (Rat)	-	-

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

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**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.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

## **Ecotoxicity**

Unknown aquatic toxicity Contains 0 % of components with t

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Trade secret	-	LC50: >1000mg/L (96h, Oryzias latipes)	-	-

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient		
1,2,3-Propanetriol	-1.76		

## 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment		
1,2,3-Propanetriol	The substance is not PBT / vPvB		

Trade secret The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

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**

#### IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

#### **IMDG**

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

### RID

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

### ADR

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users

Special Provisions None

## **SECTION 15: Regulatory information**

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

National regulations

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

## **SECTION 16: Other information**

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

Legend

SVHC: Substances of Very High Concern for Authorisation:

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### 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)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA API)

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 Note Reformatted and updated existing information

Revision date 02-Jun-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 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: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 02-Jun-2022 Previous 18-Jan-2022 Revision Number 1.3

revision date

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

1.1. Product identifier

Product Name Precision Plus Protein Dual Color Standards

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

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Corporate Headquarters</u>
Bio-Rad Laboratories Inc.

Manufacturer
Bio-Rad Laboratories, Life Science Group

1000 Alfred Nobel Drive
Hercules, CA 94547

2000 Alfred Nobel Drive
Hercules, CA guifornia 94547

USA USA

Legal Entity / Contact Address

Bio-Rad Laboratories Ltd
The Junction

Station Road Watford, WD17 1ET

UK

Bio-Rad Laboratories Pvt. Ltd.

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

For further information, please contact

**Technical Service** 00800 00246 723

Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Chronic aquatic toxicity	Category 3 - (H412)

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## 2.2. Label elements



Signal word Warning

#### **Hazard statements**

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P337 + P313 - If eye irritation persists: Get medical advice/attention

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### 2.3. Other hazards

Causes mild skin irritation. Harmful to aquatic life.

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

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
1,2,3-Propanetriol 56-81-5	20 - 35	No data available	200-289-5	No data available	-	1	-
Sodium lauryl sulfate 151-21-3	1 - 2.5	No data available	205-788-1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	-	-	-
Sodium azide 26628-22-8	0.01 - 0.099	No data available	247-852-1	Acute Tox. 2 (H300) Acute Tox. 1 (H310) (EUH032) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	-	-

## Full text of H- and EUH-phrases: see section 16

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its

components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
1,2,3-Propanetriol 56-81-5	12600	10000	2.75	No data available	No data available
Sodium lauryl sulfate 151-21-3	1288	200	0.975	No data available	No data available
Sodium azide 26628-22-8	27	20	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

## 4.1. 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. In the case of skin irritation or allergic reactions see a

physician.

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).

4.2. 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.

4.3. Indication of any immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

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

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

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

## **SECTION 6: Accidental release measures**

## 6.1. 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.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

## 6.3. 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 Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

#### 7.1. 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.

## 7.2. 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.

## 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chem	nical name	European Union	Austria	Belgium	Bulgaria	Croatia
1 ' '	Propanetriol 6-81-5	-	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
	ium azide 628-22-8	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	*	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>

	*	H*			K*	*
Chemical name	Cyprus	Czech Republic	Denmark	Es	stonia	Finland
1,2,3-Propanetriol	-	TWA: 10 mg/m <sup>3</sup>	-	TWA:	10 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup>
56-81-5		Ceiling: 15 mg/m <sup>3</sup>				
Sodium azide	*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>		0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
26628-22-8	STEL: 0.3 mg/m <sup>3</sup>	Ceiling: 0.3 mg/m <sup>3</sup>	H*	STEL:	0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>
	TWA: 0.1 mg/m <sup>3</sup>	*	0 14414	-	<u>A*</u>	iho*
Chemical name	France	Germany	Germany MAK		reece	Hungary
1,2,3-Propanetriol 56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup> Peak: 400 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	-
Sodium azide	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>		0.1 ppm	TWA: 0.1 mg/m <sup>3</sup>
26628-22-8	STEL: 0.3 mg/m <sup>3</sup>		Peak: 0.4 mg/m <sup>3</sup>		0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>
	*				0.1 ppm	
Ob	landara d	14 - 1	Italia DEI		0.3 mg/m <sup>3</sup>	1 :45
Chemical name	Ireland	Italy	Italy REL		atvia	Lithuania
Sodium azide 26628-22-8	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm		0.1 mg/m <sup>3</sup> 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
20020-22-0	Sk*	pelle*	Ceiling, 0.11 ppm	SIEL.	v.5 mg/m² *	STEL: 0.3 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Nc	orway	Poland
1,2,3-Propanetriol	- Luxernbourg	- Iviaita	-	INC	-	TWA: 10 mg/m <sup>3</sup>
56-81-5						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sodium azide	*	*	TWA: 0.1 mg/m <sup>3</sup>	TWA: (	0.1 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>
26628-22-8	STEL: 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>	STEL:	0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	H*			*
Chemical name	Portugal	Romania	Slovakia		ovenia	Spain
1,2,3-Propanetriol	TWA: 10 mg/m <sup>3</sup>	-	TWA: 11 mg/m <sup>3</sup>		200 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
56-81-5					400 mg/m <sup>3</sup>	
Sodium azide	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>		0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
26628-22-8	STEL: 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>	* O - :::: 0 O / 3	STEL:	0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>
	Ceiling: 0.29 mg/m <sup>3</sup>	, "	Ceiling: 0.3 mg/m <sup>3</sup>			vía dérmica*
	Ceiling: 0.11 ppm P*					
Chemical name	S	weden	Switzerland		Uni	ted Kingdom
1,2,3-Propanetriol		-	TWA: 50 mg/m	3	TW	'A: 10 mg/m <sup>3</sup>
56-81-5			STEL: 100 mg/n			EL: 30 mg/m <sup>3</sup>
Sodium azide		0.1 mg/m³ TWA: 0.2 mg/r				A: 0.1 mg/m <sup>3</sup>
26628-22-8	26628-22-8 Bindande KGV: 0.3 mg/m <sup>3</sup>				L: 0.3 mg/m <sup>3</sup>	
						Sk*

### **Biological occupational exposure limits**

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

**Derived No Effect Level (DNEL)** Predicted No Effect Concentration No information available. (PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

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

Wear suitable gloves. Hand protection

Wear suitable protective clothing. Skin and body protection

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.

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.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Physical state** Liquid Colour blue Odour Rotten.

Odour threshold No information available

**Property** Values Remarks • Method

Melting point / freezing point No data available None known

100 °C Boiling point / boiling range

Flammability (solid, gas) 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

Flash point 160 °C No data available

**Autoignition temperature** 

**Decomposition temperature** None known

pН

pH (as aqueous solution) No data available No information available

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

Miscible in water Water solubility

Solubility(ies) No data available None known No data available **Partition coefficient** None known None known No data available Vapour pressure Relative density No data available None known

No data available **Bulk density Liquid Density** No data available

No data available Vapour density None known

Particle characteristics

**Particle Size** No information available Particle Size Distribution No information available

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

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

### 10.3. Possibility of hazardous reactions

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.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Metals.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## 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. 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) 64
ATEmix (inhalation-dust/mist) 48

64,400.00 mg/kg 48.80 ma/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
Sodium lauryl sulfate	= 1288 mg/kg(Rat)	= 200 mg/kg(Rabbit)	> 3900 mg/m³(Rat)1 h
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 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.

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.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

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

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
		Oncorhynchus mykiss)		
Sodium lauryl sulfate	EC50: 3.59 - 15.6mg/L	LC50: 10.2 - 22.5mg/L	-	EC50: =1.8mg/L (48h,
	(96h, Pseudokirchneriella	(96h, Pimephales		Daphnia magna)
	subcapitata)	promelas)		
	EC50: 30 - 100mg/L	LC50: 10.8 - 16.6mg/L		
	(96h, Desmodesmus	(96h, Poecilia reticulata)		
	subspicatus)	LC50: 13.5 - 18.3mg/L		
	EC50: =117mg/L (96h,	(96h, Poecilia reticulata)		
	Pseudokirchneriella	LC50: 15 - 18.9mg/L		
	subcapitata)	(96h, Pimephales		
	EC50: =53mg/L (72h,	promelas)		
	Desmodesmus	LC50: 22.1 - 22.8mg/L		
	subspicatus)	(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,	
	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)	
	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)	

## 12.2. Persistence and degradability

Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

### **Bioaccumulation**

**Component Information** 

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

## 12.4. Mobility in soil

Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

## PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
1,2,3-Propanetriol	The substance is not PBT / vPvB
Sodium lauryl sulfate	The substance is not PBT / vPvB
Sodium azide	The substance is not PBT / vPvB

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. 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.

## **SECTION 14: Transport information**

#### IATA

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

#### **IMDG**

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk No information available

according to IMO instruments

#### RID

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

### ADR

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

## **SECTION 15: Regulatory information**

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

National regulations

#### Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## **SECTION 16: Other information**

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

## Full text of H-Statements referred to under section 3

EUH032 - Contact with acids liberates very toxic gas

H300 - Fatal if swallowed

H302 - Harmful if swallowed

H310 - Fatal in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

## Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method

Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### 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)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

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 Note Reformatted and updated existing information

Revision date 02-Jun-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet**