

# KIT SAFETY DATA SHEET



**Kit Product Name** MP TGX Gel with Protein Standard  
**Kit Catalog Number(s)** 4561085DC, 4561084DC, 4561086DC, 4561093DC, 4561094DC, 4561096DC  
**Revision date** 02-Jun-2022

## Kit Contents

| Catalog Number(s)   | Product Name                                |
|---|---|
| 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 | Mini-PROTEAN TGX Gels 4-15%, 4-20%          |
| 1610374, 1610374S, 1610394, 10022171, 1610374EDU, 1610374TGX  | Precision Plus Protein Dual Color Standards |



# SAFETY DATA SHEET

Revision date 02-Jun-2022

Revision Number 1.3

## 1. Identification

### Product identifier

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

### Other means of identification

**Catalog 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

### 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

Bio-Rad Laboratories Inc.  
1000 Alfred Nobel Drive  
Hercules, CA 94547  
USA

#### Manufacturer Address

Bio-Rad Laboratories, Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
USA

#### Legal Entity / Contact Address

Bio-Rad Laboratories (Canada) Ltd.  
1329 Meyerside Drive  
Mississauga, ON L5T 1C9  
Canada

#### **Technical Service**

1-800-361-1808  
support@bio-rad.com

### Emergency telephone number

**24 Hour Emergency Phone Number** CHEMTREC Canada:1 (800) 424-9300

## 2. Hazard(s) identification

### Classification

Not classified

### Label elements

#### **Hazard statements**

Not classified.

### Other information

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name      | CAS No  | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------|---------|----------|--|---|
| 1,2,3-Propanetriol | 56-81-5 | 1 - 5    | -  |   |

### 4. First-aid measures

**Description of first aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | No hazards which require special first aid measures.   |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b>   | Wash skin with soap and water.   |
| <b>Ingestion</b>      | Rinse mouth thoroughly with water.   |

**Most important symptoms and effects, both acute and delayed**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>                 | No information available.  |
| <b>Specific hazards arising from the chemical</b>     | None known.  |
| <b>Explosion data</b>                                 |  |
| <b>Sensitivity to mechanical impact</b>               | None.  |
| <b>Sensitivity to static discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | 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** See section 8 for more information.

### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. Handling and storage**

### **Precautions for safe handling**

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

### **Conditions for safe storage, including any incompatibilities**

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

## **8. Exposure controls/personal protection**

### **Control parameters**

#### **Exposure Limits**

| Chemical name                 | Alberta                   | British Columbia                                      | Ontario | Quebec                    |
|-------------------------------|---------------------------|---|---------|---------------------------|
| 1,2,3-Propanetriol<br>56-81-5 | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> |         | TWA: 10 mg/m <sup>3</sup> |

### **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** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

**Physical state** Solid  
**Appearance** gel  
**Color** colorless  
**Odor** Odorless  
**Odor threshold** No information available

| <u>Property</u>                        | <u>Values</u>      | <u>Remarks • Method</u> |
|--|--------------------|-------------------------|
| pH                                     | 6-7                |                         |
| Melting point / freezing point         | No data available  | None known              |
| Boiling point / boiling range          | No data available  | None known              |
| Flash point                            | No data available  | None known              |
| Evaporation rate                       | No data available  | None known              |
| Flammability (solid, gas)              | No data available  | None known              |
| Flammability Limit in Air              |                    | None known              |
| Upper flammability or explosive limits | No data available  |                         |
| Lower flammability or explosive limits | No data available  |                         |
| Vapor pressure                         | No data available  | None known              |
| Vapor density                          | No data available  | None known              |
| Relative density                       | No data available  | None known              |
| Water solubility                       | Insoluble in water |                         |
| Solubility in other solvents           | No data available  | None known              |
| Partition coefficient                  | No data available  | None known              |
| Autoignition temperature               | No data available  | None known              |
| Decomposition temperature              |                    | None known              |
| Kinematic viscosity                    | No data available  | None known              |
| Dynamic viscosity                      | No data available  | None known              |
| <u>Other information</u>               |                    |                         |
| Explosive properties                   | Not applicable.    |                         |
| Oxidizing properties                   | Not applicable.    |                         |
| Softening point                        | Not applicable     |                         |
| Molecular weight                       | Not applicable     |                         |
| VOC Content (%)                        | Not applicable     |                         |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | None known based on information supplied. |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

## 11. Toxicological information

### 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<br>56-81-5 | = 12600 mg/kg ( Rat ) | > 10 g/kg ( Rabbit ) | > 2.75 mg/L ( Rat ) 4 h |

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

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Based on available data, the classification criteria are not met. |
| <b>Respiratory or skin sensitization</b> | Based on available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met. |
| <b>Target organ effects</b>              | Kidney, Respiratory system, Eyes, Skin.                           |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met. |

**12. Ecological information****Ecotoxicity**

| Chemical name                 | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea |
|-------------------------------|----------------------|--|----------------------------|-----------|
| 1,2,3-Propanetriol<br>56-81-5 | -                    | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | -                          | -         |

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name                 | Partition coefficient |
|-------------------------------|-----------------------|
| 1,2,3-Propanetriol<br>56-81-5 | -1.76                 |

**Other adverse effects** No information available.

**13. Disposal considerations****Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

## 14. Transport information

|             |               |
|-------------|---------------|
| <u>TDG</u>  | Not regulated |
| <u>DOT</u>  | Not regulated |
| <u>MEX</u>  | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>IMDG</u> | Not regulated |

## 15. Regulatory information

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

### 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

## 16. Other information

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 0 | Flammability 0 | Instability 0      | Physical and chemical properties - |
| <u>HMIS</u> | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal protection X              |

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

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

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 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

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

**Revision date** 02-Jun-2022

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

**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**



Revision date 18-Jan-2022

Revision Number 1.1

## 1. Identification

### Product identifier

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

### Other means of identification

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

### Recommended use of the chemical and restrictions on use

**Recommended use** Laboratory chemicals

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Corporate Headquarters

Bio-Rad Laboratories Inc.  
1000 Alfred Nobel Drive  
Hercules, CA 94547  
USA

#### Manufacturer Address

Bio-Rad Laboratories, Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
USA

#### Legal Entity / Contact Address

Bio-Rad Laboratories (Canada) Ltd.  
1329 Meyerside Drive  
Mississauga, ON L5T 1C9  
Canada

#### **Technical Service**

1-800-361-1808  
support@bio-rad.com

### Emergency telephone number

**24 Hour Emergency Phone Number** CHEMTREC Canada:1 (800) 424-9300

## 2. Hazard(s) identification

### Classification

Serious eye damage/eye irritation

Category 2A

### Label elements

#### **Warning**

#### **Hazard statements**

Causes serious eye irritation



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response****Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Precautionary Statements - Disposal**

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

**Other information**

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

**3. Composition/information on ingredients****Substance**

Not applicable.

**Mixture**

| Chemical name  | CAS No     | Weight-% | Hazardous Material<br>Information Review Act<br>registry number<br>(HMIRA registry #) | Date HMIRA filed and<br>date exemption<br>granted (if applicable) |
|--|------------|----------|---|---|
| Water  | 7732-18-5  | 60 - 80  | -   |   |
| 1,2,3-Propanetriol   | 56-81-5    | 30 - 60  | -   |   |
| Sodium lauryl sulfate  | 151-21-3   | 1 - 5    | -   |   |
| 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-                                      | 3483-12-3  | 0.1 - 1  | -   |   |
| 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-                                    | 77-86-1    | 0.1 - 1  | -   |   |
| Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-,<br>disodium salt, dihydrate | 6381-92-6  | 0.1 - 1  | -   |   |
| Sodium azide   | 26628-22-8 | <= 0.1   | -   |   |
| Proteins   | NO-CAS-1   | <= 0.1   | -   |   |

**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**

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 physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

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

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical** None known.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

**Precautions for safe handling**

**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.

**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.

## 8. Exposure controls/personal protection

**Control parameters****Exposure Limits**

| Chemical name                 | Alberta   | British Columbia                                      | Ontario                                      | Quebec   |
|-------------------------------|---|---|--|--|
| 1,2,3-Propanetriol<br>56-81-5 | TWA: 10 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> |  | TWA: 10 mg/m <sup>3</sup>                            |
| Sodium azide<br>26628-22-8    | Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm<br>STEL: 0.3 mg/m <sup>3</sup> | Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm  | CEV: 0.29 mg/m <sup>3</sup><br>CEV: 0.11 ppm | Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm |

**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**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

**Physical state**                                      Liquid

**Appearance**                                      No information available

**Color**    blue

**Odor**    rotten

**Odor threshold**                                      No information available

| <b><u>Property</u></b>                        | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|---|----------------------|--------------------------------|
| <b>pH</b>                                     |                      |                                |
| <b>Melting point / freezing point</b>         | No data available    | None known                     |
| <b>Boiling point / boiling range</b>          | 100 °C / 212 °F      |                                |
| <b>Flash point</b>                            | 160 °C / 320 °F      |                                |
| <b>Evaporation rate</b>                       | No data available    | None known                     |
| <b>Flammability (solid, gas)</b>              | No data available    | None known                     |
| <b>Flammability Limit in Air</b>              |                      | None known                     |
| <b>Upper flammability or explosive limits</b> | No data available    |                                |
| <b>Lower flammability or explosive limits</b> | No data available    |                                |
| <b>Vapor pressure</b>                         | No data available    | None known                     |
| <b>Vapor density</b>                          | No data available    | None known                     |
| <b>Relative density</b>                       | No data available    | None known                     |
| <b>Water solubility</b>                       | Miscible in water    |                                |
| <b>Solubility in other solvents</b>           | No data available    | None known                     |
| <b>Partition coefficient</b>                  | No data available    | None known                     |
| <b>Autoignition temperature</b>               | No data available    |                                |
| <b>Decomposition temperature</b>              |                      | None known                     |
| <b>Kinematic viscosity</b>                    | No data available    | None known                     |

Dynamic viscosity No data available None known

**Other information**

Explosive properties Not applicable.  
Oxidizing properties Not applicable.  
Softening point Not applicable  
Molecular weight Not applicable  
VOC Content (%) Not applicable

**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.

**11. Toxicological information****Information on likely routes of exposure****Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**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) 64,400.00 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 )    | -                    | -                       |
| 7732-18-5          |                       |                      |                         |
| 1,2,3-Propanetriol | = 12600 mg/kg ( Rat ) | > 10 g/kg ( Rabbit ) | > 2.75 mg/L ( Rat ) 4 h |

|   |                      |                        |                                      |
|---|----------------------|------------------------|--------------------------------------|
| 56-81-5   |                      |                        |                                      |
| Sodium lauryl sulfate<br>151-21-3                         | = 1288 mg/kg ( Rat ) | = 200 mg/kg ( Rabbit ) | > 3900 mg/m <sup>3</sup> ( Rat ) 1 h |
| 1,3-Propanediol,<br>2-amino-2-(hydroxymethyl)-<br>77-86-1 | = 5900 mg/kg ( Rat ) | > 5000 mg/kg ( Rat )   | -                                    |
| Sodium azide<br>26628-22-8                                | = 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**

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | May cause skin irritation. Classification based on data available for ingredients.     |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation. |
| <b>Respiratory or skin sensitization</b> | Based on available data, the classification criteria are not met.                      |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met.                      |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.                      |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met.                      |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met.                      |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met.                      |
| <b>Target organ effects</b>              | Kidney, Respiratory system, Eyes, Skin.  |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met.                      |

**12. Ecological information**

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

| Chemical name                     | Algae/aquatic plants   | Fish   | Toxicity to microorganisms | Crustacea                                   |
|-----------------------------------|--|--|----------------------------|---|
| 1,2,3-Propanetriol<br>56-81-5     | -  | LC50: 51 - 57mL/L (96h, <i>Oncorhynchus mykiss</i> )   | -                          | -   |
| Sodium lauryl sulfate<br>151-21-3 | EC50: 3.59 - 15.6mg/L (96h, <i>Pseudokirchneriella subcapitata</i> )<br>EC50: 30 - 100mg/L (96h, <i>Desmodesmus subspicatus</i> )<br>EC50: =117mg/L (96h, <i>Pseudokirchneriella subcapitata</i> )<br>EC50: =53mg/L (72h, <i>Desmodesmus subspicatus</i> ) | LC50: 10.2 - 22.5mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 10.8 - 16.6mg/L (96h, <i>Poecilia reticulata</i> )<br>LC50: 13.5 - 18.3mg/L (96h, <i>Poecilia reticulata</i> )<br>LC50: 15 - 18.9mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 22.1 - 22.8mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 4.06 - 5.75mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: 4.2 - 4.8mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: 4.3 - 8.5mg/L (96h, <i>Oncorhynchus mykiss</i> )<br>LC50: 5.8 - 7.5mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 6.2 - 9.6mg/L (96h, <i>Pimephales promelas</i> ) | -                          | EC50: =1.8mg/L (48h, <i>Daphnia magna</i> ) |

|                            |   |  |   |   |
|----------------------------|---|--|---|---|
|                            |   | LC50: 8 - 12.5mg/L (96h, Pimephales promelas)<br>LC50: 9.9 - 20.1mg/L (96h, Brachydanio rerio)<br>LC50: =1.31mg/L (96h, Cyprinus carpio)<br>LC50: =4.2mg/L (96h, Oncorhynchus mykiss)<br>LC50: =4.5mg/L (96h, Lepomis macrochirus)<br>LC50: =4.62mg/L (96h, Oncorhynchus mykiss)<br>LC50: =7.97mg/L (96h, Brachydanio rerio) |   |   |
| Sodium azide<br>26628-22-8 | - | LC50: =0.7mg/L (96h, Lepomis macrochirus)<br>LC50: =0.8mg/L (96h, Oncorhynchus mykiss)<br>LC50: =5.46mg/L (96h, Pimephales promelas)   | - | - |

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

#### Component Information

| Chemical name                     | Partition coefficient |
|-----------------------------------|-----------------------|
| 1,2,3-Propanetriol<br>56-81-5     | -1.76                 |
| Sodium lauryl sulfate<br>151-21-3 | 1.6                   |

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** 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.

### 14. Transport information

**TDG** Not regulated

**DOT** Not regulated

**MEX** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. Regulatory information

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

**16. Other information**

|             |                         |                       |                           |   |
|-------------|-------------------------|-----------------------|---------------------------|---|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Physical and chemical properties</b> - |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X              |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AELG(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

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

**Disclaimer**

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**End of Safety Data Sheet**