



Date: 12 July 2024

| Kit part number | Description  |
|-----------------|--|
| NAP44401        | sbeadex™ Blood DNA Purification Kit - 96 purifications |

SDSs are included for the components listed below:

| Component part number | Description                           |
|-----------------------|---------------------------------------|
| LP-01                 | Lysis buffer SB                       |
| BP-01                 | Binding buffer SB                     |
| WP-01                 | Wash buffer BN1                       |
| WP-08                 | Wash buffer PN 1/FN 1/TN 1            |
| WP-10                 | Wash buffer PN 2/FN 2/ TN 2/ BLN/ PLN |
| EB-03                 | Elution buffer AMP                    |
| PAS-07                | sbeadex particle suspension + EDTA    |
| EZ-03                 | PK Solution/ Protease Solution        |



# 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 08-Jul-2024

Revision Number 1.02

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

### 1.1. Product identifier

|                                 |                     |
|---------------------------------|---------------------|
| Product Code(s)                 | LP-01               |
| Product Name                    | Lysis buffer SB     |
| Form                            | Not applicable      |
| Unique Formula Identifier (UFI) | K0SU-UAVD-F000-FRQW |
| Pure substance/mixture          | Mixture             |

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

|                      |                          |
|----------------------|--------------------------|
| Recommended use      | Laboratory use           |
| Uses advised against | No information available |

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

E-mail address genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |



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|                |  |
|----------------|--|
| Croatia        |  |
| Cyprus         |  |
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|                                   |                     |
|-----------------------------------|---------------------|
| Acute toxicity - Oral             | Category 4 - (H302) |
| Skin corrosion/irritation         | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Chronic aquatic toxicity          | Category 1 - (H410) |

### 2.2. Label elements

Contains guanidinium chloride; CetyltrimethylammoniumBromide



Signal word  
Warning



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### Hazard statements

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H410 - Very toxic 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  
P280 - Wear protective gloves and eye/face protection  
P391 - Collect spillage  
P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

Toxic to aquatic life.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name  | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|--|---|--|
| CetyltrimethylammoniumBromide                              | -   | -  |
| 2-amino-2-(hydroxymethyl)propane-1,3-diolhydro<br>chloride | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** aqueous solution.

| Chemical name                   | Weight-% | REACH registration<br>number | EC No (EU<br>Index No)          | Classification according<br>to Regulation (EC) No.<br>1272/2008 [CLP] | Specific<br>concentration<br>limit (SCL) | M-Factor | M-Factor<br>(long-term) |
|---------------------------------|----------|------------------------------|---------------------------------|---|--|----------|-------------------------|
| guanidinium chloride<br>50-01-1 | 40 - 60  | -                            | 200-002-3<br>(607-148-00<br>-0) | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)    |  |          |                         |



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|   |        |   |           |   |  |  |  |
|---|--------|---|-----------|---|--|--|--|
| CetyltrimethylammoniumBromide<br>57-09-0                            | 1 - <3 | - | 200-311-3 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |  |  |  |
| 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride<br>1185-53-1 | 1 - <3 | - | 214-684-5 | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)   |  |  |  |

### 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 - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|--|--------------------------------------|
| guanidinium chloride<br>50-01-1           | 475             | 2000              | No data available                           | No data available                        | No data available                    |
| Cetyltrimethylammonium Bromide<br>57-09-0 | 410             | 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  $\geq 0.1\%$  (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. Get medical attention immediately if symptoms occur.

#### 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.



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|   |  |
|---|--|
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.                             |
| <b>Self-protection of the first aider</b> | 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

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May cause redness and tearing of the eyes. Burning sensation. |
|-----------------|---|

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Large Fire</b>                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams.                                       |

### 5.2. Special hazards arising from the substance or mixture

|   |                           |
|---|---------------------------|
| <b>Specific hazards arising from the chemical</b> | No information available. |
|---|---------------------------|

### 5.3. Advice for firefighters

|   |  |
|---|--|
| <b>Special protective equipment and precautions for fire-fighters</b> | 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

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
|-----------------------------|--|

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

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

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### 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.

### 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. Take off contaminated clothing and wash it before reuse.

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

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

**Storage class (TRGS510)** 10. LGK10 - Combustible liquids unless storage class 3.

### 7.3. Specific end use(s)

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



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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

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

#### 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)

No information available.

#### Predicted No Effect Concentration (PNEC)

No information available.

### 8.2. Exposure controls

#### Personal protective equipment

##### Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

##### Hand protection

Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves.

##### Skin and body protection

Long sleeved clothing. 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. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

##### Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Liquid                    |
| Appearance      | Liquid                    |
| Colour          | clear to yellow           |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values                   | Remarks • Method         |
|---|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | None known               |
| Initial boiling point and boiling range | No data available        | None known               |
| Flammability                            | 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        |                          |
| Flash point                             | No data available        | None known               |
| Autoignition temperature                | No data available        | None known               |
| Decomposition temperature               |                          | None known               |
| pH                                      | No data available        | None known               |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | None known               |
| Dynamic viscosity                       | No data available        | None known               |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | None known               |
| Partition coefficient                   | No data available        | None known               |
| Vapour pressure                         | No data available        | None known               |
| Relative density                        | No data available        | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapour density                 | No data available        | None known               |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity



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**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** Strong acids. Strong bases. Strong oxidising agents.

**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. 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. Causes skin irritation. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).



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

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 1,086.70 mg/kg  |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

#### Component Information

| Chemical name                 | Oral LD50           | Dermal LD50             | Inhalation LC50                                      |
|-------------------------------|---------------------|-------------------------|--|
| guanidinium chloride          | = 475 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | = 3.181 mg/L ( Rat ) 4 h<br>= 7.655 mg/L ( Rat ) 4 h |
| CetyltrimethylammoniumBromide | = 410 mg/kg ( Rat ) |                         |  |

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

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

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

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.



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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 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life.

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

| Chemical name                  | Algae/aquatic plants                                   | Fish                       | Toxicity to microorganisms | Crustacea                          |
|--------------------------------|--|----------------------------|----------------------------|------------------------------------|
| Cetyltrimethylammonium Bromide | EC50: =0.09mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 0.2 mg/L (96h, Fish) | -                          | EC50: 26 µg/L (48h, Daphnia magna) |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

#### Component Information

| Chemical name        | Partition coefficient |
|----------------------|-----------------------|
| guanidinium chloride | -1.7                  |



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|  |      |
|--|------|
| CetyltrimethylammoniumBromide                          | 3.18 |
| 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride | -3.6 |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name  | PBT and vPvB assessment         |
|--|---------------------------------|
| guanidinium chloride                                   | The substance is not PBT / vPvB |
| CetyltrimethylammoniumBromide                          | The substance is not PBT / vPvB |
| 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride | 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 UN3082  
14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide), 9, III



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14.5 Environmental hazards Yes

14.6 Special precautions for user  
Special Provisions A97, A158, A197  
ERG Code 9L

### IMDG

14.1 UN number or ID number UN3082  
14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide), 9, III, Marine pollutant  
14.5 Marine pollutant P  
Environmental hazards Yes  
14.6 Special precautions for user  
Special Provisions 274, 335, 969  
EmS-No. F-A, S-F No information available  
14.7 Maritime transport in bulk according to IMO instruments No information available

### RID

14.1 UN number or ID number UN3082  
14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide), 9, III  
14.5 Environmental hazards Yes  
14.6 Special precautions for user  
Special Provisions 274, 335, 375, 601  
Classification code M6

### ADR

14.1 UN number or ID number UN3082  
14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (CetyltrimethylammoniumBromide), 9, III, (-)  
14.5 Environmental hazards Yes  
14.6 Special precautions for user  
Special Provisions 274, 335, 601, 375  
Classification code M6  
Tunnel restriction code (-)



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## 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) obviously hazardous to water (WGK 2)  
TA Luft (German Air Pollution Control Regulation)

##### Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

##### 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.

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



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This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

| Chemical name                  | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--------------------------------|---|--|
| guanidinium chloride - 50-01-1 | 75.                                       |  |

### Persistent Organic Pollutants

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

Not applicable

### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

#### DSL/NDSL

#### EINECS/ELINCS

#### ENCS

#### IECSC

#### KECI

#### PICCS

#### AIIC

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances





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This safety data sheet was created pursuant to the requirements of:  
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Revision Number 1.02

## LP-01 - Lysis buffer SB

**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment is not required for this substance

## 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

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic 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 Sk\* 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 |



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|                          |                    |
|--------------------------|--------------------|
| 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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 08-Jul-2024

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

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

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Revision Number 2.04

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

### 1.1. Product identifier

**Product Code(s)** BP-01  
**Product Name** Binding buffer SB  
**Form** Not applicable  
**Unique Formula Identifier (UFI)** YJTW-71CP-S00P-NX39  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

#### Emergency Telephone - §45 - (EC)1272/2008

|          |                          |
|----------|--------------------------|
| Europe   | 112                      |
| Austria  | No information available |
| Bulgaria |                          |



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## BP-01 - Binding buffer SB

|                |  |
|----------------|--|
| Croatia        |  |
| Cyprus         |  |
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|  |                     |
|--|---------------------|
| Skin corrosion/irritation                        | Category 2 - (H315) |
| Serious eye damage/eye irritation                | Category 1 - (H318) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Category 3 Narcotic effects                      |                     |
| Chronic aquatic toxicity                         | Category 2 - (H411) |
| Flammable liquids                                | Category 3 - (H226) |

### 2.2. Label elements

Contains propan-1-ol



Signal word



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Danger

### Hazard statements

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects  
H226 - Flammable liquid and vapour

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P273 - Avoid release to the environment  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish  
P391 - Collect spillage  
P403 + P235 - Store in a well-ventilated place. Keep cool

### 2.3. Other hazards

Toxic to aquatic life.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name                 | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|-------------------------------|---|--|
| propan-1-ol                   | -   | -  |
| CetyltrimethylammoniumBromide | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---------------|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
|---------------|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|



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|  |         |   |                                 |  |  |  |  |
|--|---------|---|---------------------------------|--|--|--|--|
| propan-1-ol<br>71-23-8                       | 60 - 80 | - | 200-746-9<br>(603-003-00<br>-0) | Flam. Liq. 2 (H225)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H336)   |  |  |  |
| guanidinium chloride<br>50-01-1              | 10 - 20 | - | 200-002-3<br>(607-148-00<br>-0) | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)   |  |  |  |
| Cetyltrimethylammo<br>niumBromide<br>57-09-0 | 0.1 - 1 | - | 200-311-3                       | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1<br>(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<br>mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|--|-----------------|----------------------|--|---|---|
| propan-1-ol<br>71-23-8                       | 1870            | 4049                 | 33.8   | No data available                           | No data available                       |
| guanidinium chloride<br>50-01-1              | 475             | 2000                 | No data available                              | No data available                           | No data available                       |
| Cetyltrimethylammonium<br>Bromide<br>57-09-0 | 410             | 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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.



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|                                    |  |
|------------------------------------|--|
| Inhalation                         | Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.   |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| Skin contact                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.   |
| Ingestion                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.   |
| Self-protection of the first aider | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

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

|          |  |
|----------|--|
| Symptoms | Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|----------|--|

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

|                 |                        |
|-----------------|------------------------|
| Note to doctors | Treat symptomatically. |
|-----------------|------------------------|

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable Extinguishing Media   | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. |
| 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 | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
|--|---|

### 5.3. Advice for firefighters

|                                  |   |
|----------------------------------|---|
| Special protective equipment and | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |
|----------------------------------|---|

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precautions for fire-fighters Use personal protection equipment.

### SECTION 6: Accidental release measures

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

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

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

#### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**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.

#### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and





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explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

### General hygiene considerations

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

#### Storage class (TRGS510)

3. LGK3 - Flammable liquids.

### 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   | Bulgaria  | Croatia  |
|------------------------|----------------|--|---|---|--|
| propan-1-ol<br>71-23-8 | -              | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>                           | TWA: 100 ppm<br>TWA: 250 mg/m <sup>3</sup>                  | TWA: 300.0 mg/m <sup>3</sup><br>STEL: 500.0 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup> |
| Chemical name          | Cyprus         | Czech Republic   | Denmark   | Estonia   | Finland  |
| propan-1-ol<br>71-23-8 | -              | TWA: 500 mg/m <sup>3</sup><br>Sk*<br>Ceiling: 1000 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm | -   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm                                |



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|                        |  |   |   |  |  |
|------------------------|--|---|---|--|--|
|                        |  |   | STEL: 1000 mg/m <sup>3</sup><br>Sk*               |  | STEL: 620 mg/m <sup>3</sup>  |
| Chemical name          | France   | Germany TRGS  | Germany DFG                                       | Greece   | Hungary  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>   | -   | -   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup>           | -  |
| Chemical name          | Ireland  | Italy MDLPS   | Italy AIDII                                       | Latvia   | Lithuania  |
| propan-1-ol<br>71-23-8 | TWA: 100 ppm<br>STEL: 300 ppm<br>Sk*   | -   | TWA: 100 ppm<br>TWA: 246 mg/m <sup>3</sup>        | TWA: 10 mg/m <sup>3</sup>  | -  |
| Chemical name          | Luxembourg   | Malta   | Netherlands                                       | Norway   | Poland   |
| propan-1-ol<br>71-23-8 | -  | -   | -   | TWA: 100 ppm<br>TWA: 245 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 306.25 mg/m <sup>3</sup><br>Sk* | TWA: 200 mg/m <sup>3</sup><br>STEL: 600 mg/m <sup>3</sup><br>Sk*                                   |
| Chemical name          | Portugal   | Romania   | Slovakia  | Slovenia   | Spain  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>STEL: 400 ppm  | TWA: 81 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 203 ppm<br>STEL: 500 mg/m <sup>3</sup> | -   | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>Sk* |
| Chemical name          | Sweden   |   | Switzerland                                       |  | United Kingdom   |
| propan-1-ol<br>71-23-8 | NGV: 150 ppm<br>NGV: 350 mg/m <sup>3</sup><br>Vägledande KGV: 250 ppm<br>Vägledande KGV: 600 mg/m <sup>3</sup> |   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Sk* |  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup><br>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)** No information available.  
**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields



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(or goggles).

### Hand protection

Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves.

### Skin and body protection

Long sleeved clothing. Chemical resistant apron. Antistatic boots. 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

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Appearance      | Liquid                   |
| Colour          | clear to yellow          |
| Odour           | Characteristic.          |
| Odour threshold | No information available |

| Property                                | Values            | Remarks • Method         |
|---|-------------------|--------------------------|
| Melting point / freezing point          | No data available | None known               |
| Initial boiling point and boiling range | No data available | None known               |
| Flammability                            | 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 |                          |
| Flash point                             | 28 °C             | None known               |
| Autoignition temperature                | No data available | None known               |
| Decomposition temperature               |                   | None known               |
| pH                                      | 7                 | None known               |
| pH (as aqueous solution)                | No data available | No information available |



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|                            |                          |            |
|----------------------------|--------------------------|------------|
| Kinematic viscosity        | No data available        | None known |
| Dynamic viscosity          | No data available        | None known |
| Water solubility           | No data available        | None known |
| Solubility(ies)            | No data available        | None known |
| Partition coefficient      | No data available        | None known |
| Vapour pressure            | No data available        | None known |
| Relative density           | 0.9012                   | None known |
| Bulk density               | No data available        |            |
| Liquid Density             | No data available        |            |
| Relative vapour density    | No data available        | None known |
| Particle characteristics   |                          |            |
| Particle Size              | No information available |            |
| Particle Size Distribution | No information available |            |

### 9.2. Other information

9.2.1. Information with regards 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 Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

### 10.5. Incompatible materials



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**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

**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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness.   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.                |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

**Symptoms** Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

##### Numerical measures of toxicity

##### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 3,585.20 mg/kg  |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

##### Component Information



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| Chemical name                 | Oral LD50            | Dermal LD50             | Inhalation LC50                                      |
|-------------------------------|----------------------|-------------------------|--|
| propan-1-ol                   | = 1870 mg/kg ( Rat ) | = 4049 mg/kg ( Rabbit ) | > 33.8 mg/L ( Rat ) 4 h                              |
| guanidinium chloride          | = 475 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | = 3.181 mg/L ( Rat ) 4 h<br>= 7.655 mg/L ( Rat ) 4 h |
| CetyltrimethylammoniumBromide | = 410 mg/kg ( Rat )  |                         |  |

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

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation.                  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Causes serious eye damage. |
| <b>Respiratory or skin sensitisation</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | No information available.  |
| <b>Reproductive toxicity</b>             | No information available.  |
| <b>STOT - single exposure</b>            | May cause drowsiness or dizziness.   |
| <b>STOT - repeated exposure</b>          | No information available.  |
| <b>Aspiration hazard</b>                 | No information available.  |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

|  |                           |
|--|---------------------------|
| <b>Endocrine disrupting properties</b> | No information available. |
|--|---------------------------|



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### 11.2.2. Other information

Other adverse effects No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Toxic 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  |
|--------------------------------|--|--|----------------------------|--|
| propan-1-ol                    | -  | LC50: =4480mg/L (96h, Pimephales promelas) | -                          | EC50: =3642mg/L (48h, Daphnia magna)<br>EC50: 3339 - 3977mg/L (48h, Daphnia magna) |
| Cetyltrimethylammonium Bromide | EC50: =0.09mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 0.2 mg/L (96h, Fish)                 | -                          | EC50: 26 µg/L (48h, Daphnia magna)   |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

#### Component Information

| Chemical name                 | Partition coefficient |
|-------------------------------|-----------------------|
| propan-1-ol                   | 0.2                   |
| guanidinium chloride          | -1.7                  |
| CetyltrimethylammoniumBromide | 3.18                  |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
|---------------|-------------------------|



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|                               |                                 |
|-------------------------------|---------------------------------|
| propan-1-ol                   | The substance is not PBT / vPvB |
| guanidinium chloride          | The substance is not PBT / vPvB |
| CetyltrimethylammoniumBromide | 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 | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.  |

## SECTION 14: Transport information

### IATA

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| 14.1 UN number or ID number       | UN1274                              |
| 14.2 UN proper shipping name      | n-Propanol solution                 |
| 14.3 Transport hazard class(es)   | 3                                   |
| 14.4 Packing group                | III                                 |
| Description                       | UN1274, n-Propanol solution, 3, III |
| 14.5 Environmental hazards        | Yes                                 |
| 14.6 Special precautions for user |                                     |
| Special Provisions                | A3                                  |
| ERG Code                          | 3L                                  |

### IMDG

|                                 |  |
|---------------------------------|--|
| 14.1 UN number or ID number     | UN1274   |
| 14.2 UN proper shipping name    | n-Propanol solution  |
| 14.3 Transport hazard class(es) | 3  |
| 14.4 Packing group              | III  |
| Description                     | UN1274, n-Propanol solution, 3, III, (28°C c.c.), Marine pollutant |
| 14.5 Marine pollutant           | P  |





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|  |  |
|--|--|
| Environmental hazards  | Yes  |
| 14.6 Special precautions for user                            |  |
| Special Provisions   | 223  |
| EmS-No.  | F-E, S-D No information available                              |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available                                       |
| <b>RID</b>   |  |
| 14.1 UN number or ID number                                  | UN1274   |
| 14.2 UN proper shipping name                                 | n-Propanol solution  |
| 14.3 Transport hazard class(es)                              | 3  |
| 14.4 Packing group   | III  |
| Description  | UN1274, n-Propanol solution, 3, III, Environmentally Hazardous |
| 14.5 Environmental hazards                                   | Yes  |
| 14.6 Special precautions for user                            |  |
| Special Provisions   | None   |
| Classification code  | F1   |

|                                   |   |
|-----------------------------------|---|
| <b>ADR</b>                        |   |
| 14.1 UN number or ID number       | UN1274  |
| 14.2 UN proper shipping name      | n-Propanol solution   |
| 14.3 Transport hazard class(es)   | 3   |
| 14.4 Packing group                | III   |
| Description                       | UN1274, n-Propanol solution, 3, III, (D/E), Environmentally Hazardous |
| 14.5 Environmental hazards        | Yes   |
| 14.6 Special precautions for user |   |
| Special Provisions                | None  |
| Classification code               | F1  |
| Tunnel restriction code           | (D/E)   |

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name          | French RG number | Title |
|------------------------|------------------|-------|
| propan-1-ol<br>71-23-8 | RG 84            | -     |

##### Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)  
TA Luft (German Air Pollution Control Regulation)



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Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

| Chemical name                  | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--------------------------------|---|--|
| propan-1-ol - 71-23-8          | 75.                                       |  |
| guanidinium chloride - 50-01-1 | 75.                                       |  |



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### Persistent Organic Pollutants

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Not applicable

### Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name         | Biocidal Products Regulation (EU) No 528/2012 (BPR)   |
|-----------------------|---|
| propan-1-ol - 71-23-8 | Product-type 2: Disinfectants and algicides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |

### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

#### DSL/NDSL

#### EINECS/ELINCS

#### ENCS

#### IECSC

#### KECI

#### PICCS

#### AIIC

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances



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PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic 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

Sk\*

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 |



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|                          |                    |
|--------------------------|--------------------|
| 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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Code(s)** WP-01  
**Product Name** Wash buffer BN 1  
**Form** Not applicable  
**Unique Formula Identifier (UFI)** 70EP-UNMU-Y005-5CMP  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |



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This safety data sheet was created pursuant to the requirements of:  
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## WP-01 - Wash buffer BN 1

|                |  |
|----------------|--|
| Croatia        |  |
| Cyprus         |  |
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|  |                     |
|--|---------------------|
| Acute toxicity - Inhalation (Dusts/Mists)        | Category 4 - (H332) |
| Skin corrosion/irritation                        | Category 2 - (H315) |
| Serious eye damage/eye irritation                | Category 1 - (H318) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Category 3 Narcotic effects                      |                     |
| Flammable liquids                                | Category 3 - (H226) |

### 2.2. Label elements

Contains propan-1-ol; Sodiumalkylsarcosinate(lauryl-)



Signal word



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## WP-01 - Wash buffer BN 1

Danger

### Hazard statements

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H226 - Flammable liquid and vapour

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish  
P403 + P235 - Store in a well-ventilated place. Keep cool

### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|---------------|---|--|
| propan-1-ol   | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** Aqueous solution of organic solvent.

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. | Specific concentration | M-Factor | M-Factor (long-term) |
|---------------|----------|---------------------------|---------------------|---|------------------------|----------|----------------------|
|---------------|----------|---------------------------|---------------------|---|------------------------|----------|----------------------|





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|   |         |   |                             | 1272/2008 [CLP]  | limit (SCL) |  |  |
|---|---------|---|-----------------------------|--|-------------|--|--|
| propan-1-ol<br>71-23-8                      | 20 - 40 | - | 200-746-9<br>(603-003-00-0) | Flam. Liq. 2 (H225)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H336)       |             |  |  |
| guanidinium chloride<br>50-01-1             | 10 - 20 | - | 200-002-3<br>(607-148-00-0) | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) |             |  |  |
| Sodiumalkylsarcosinate(lauryl-)<br>137-16-6 | 1 - <3  | - | 205-281-5                   | Acute Tox. 2 (H330)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)   |             |  |  |

**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 - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|--|--------------------------------------|
| propan-1-ol<br>71-23-8                      | 1870            | 4049              | 33.8  | No data available                        | No data available                    |
| guanidinium chloride<br>50-01-1             | 475             | 2000              | No data available                           | No data available                        | No data available                    |
| Sodiumalkylsarcosinate(lauryl-)<br>137-16-6 | 5000            | 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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a doctor. If breathing has



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## WP-01 - Wash buffer BN 1

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|   |  |
|---|--|
|   | stopped, give artificial respiration. Get medical attention immediately.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.   |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing. |
|-----------------|--|

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

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

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. |
| <b>Large Fire</b>                     | CAUTION: Use of water spray when fighting fire may be inefficient.                    |
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams.                     |

### 5.2. Special hazards arising from the substance or mixture

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
|---|---|

### 5.3. Advice for firefighters

|   |   |
|---|---|
| <b>Special protective equipment and</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |
|---|---|

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**precautions for fire-fighters** Use personal protection equipment.

### SECTION 6: Accidental release measures

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapours or mists.

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

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

#### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**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.

#### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static



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discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

### General hygiene considerations

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

#### Storage class (TRGS510)

3. LGK3 - Flammable liquids.

### 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                                    | Bulgaria  | Croatia  |
|------------------------|----------------|--|--|---|--|
| propan-1-ol<br>71-23-8 | -              | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup> | TWA: 100 ppm<br>TWA: 250 mg/m <sup>3</sup> | TWA: 300.0 mg/m <sup>3</sup><br>STEL: 500.0 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup> |
| Chemical name          | Cyprus         | Czech Republic                             | Denmark                                    | Estonia   | Finland  |
| propan-1-ol<br>71-23-8 | -              | TWA: 500 mg/m <sup>3</sup><br>Sk*          | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup> | -   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>   |



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|                        |  |   |  |  |  |
|------------------------|--|---|--|--|--|
|                        |  | Ceiling: 1000 mg/m <sup>3</sup>   | STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>Sk* |  | STEL: 250 ppm<br>STEL: 620 mg/m <sup>3</sup>   |
| Chemical name          | France   | Germany TRGS  | Germany DFG  | Greece   | Hungary  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>   | -   | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup>           | -  |
| Chemical name          | Ireland  | Italy MDLPS   | Italy AIDII  | Latvia   | Lithuania  |
| propan-1-ol<br>71-23-8 | TWA: 100 ppm<br>STEL: 300 ppm<br>Sk*   | -   | TWA: 100 ppm<br>TWA: 246 mg/m <sup>3</sup>           | TWA: 10 mg/m <sup>3</sup>  | -  |
| Chemical name          | Luxembourg   | Malta   | Netherlands  | Norway   | Poland   |
| propan-1-ol<br>71-23-8 | -  | -   | -  | TWA: 100 ppm<br>TWA: 245 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 306.25 mg/m <sup>3</sup><br>Sk* | TWA: 200 mg/m <sup>3</sup><br>STEL: 600 mg/m <sup>3</sup><br>Sk*                                   |
| Chemical name          | Portugal   | Romania   | Slovakia   | Slovenia   | Spain  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>STEL: 400 ppm  | TWA: 81 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 203 ppm<br>STEL: 500 mg/m <sup>3</sup> | -  | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>Sk* |
| Chemical name          | Sweden   |   | Switzerland  |  | United Kingdom   |
| propan-1-ol<br>71-23-8 | NGV: 150 ppm<br>NGV: 350 mg/m <sup>3</sup><br>Vägledande KGV: 250 ppm<br>Vägledande KGV: 600 mg/m <sup>3</sup> |   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Sk*    |  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup><br>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) No information available.

Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

### Personal protective equipment



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|  |   |
|--|---|
| <b>Eye/face protection</b>             | Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).  |
| <b>Hand protection</b>                 | Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves.   |
| <b>Skin and body protection</b>        | Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing.   |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.  |
| <b>General hygiene considerations</b>  | Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. |
| <b>Environmental exposure controls</b> | Do not allow into any sewer, on the ground or into any body of water.   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Liquid                   |
| <b>Colour</b>          | clear to yellow          |
| <b>Odour</b>           | Characteristic.          |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available | None known              |
| <b>Initial boiling point and boiling range</b> | No data available | None known              |
| <b>Flammability</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>Flash point</b>                             | 33 °C             | None known              |
| <b>Autoignition temperature</b>                | No data available | None known              |
| <b>Decomposition temperature</b>               |                   | None known              |



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|                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
| pH                         | 6.5                      | None known               |
| pH (as aqueous solution)   | No data available        | No information available |
| Kinematic viscosity        | No data available        | None known               |
| Dynamic viscosity          | No data available        | None known               |
| Water solubility           | No data available        | None known               |
| Solubility(ies)            | No data available        | None known               |
| Partition coefficient      | No data available        | None known               |
| Vapour pressure            | No data available        | None known               |
| Relative density           | 0.9829                   | None known               |
| Bulk density               | No data available        |                          |
| Liquid Density             | No data available        |                          |
| Relative vapour density    | No data available        | None known               |
| Particle characteristics   |                          |                          |
| Particle Size              | No information available |                          |
| Particle Size Distribution | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards 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 Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.



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### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

**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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness. Harmful by inhalation. (based on components). |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.                |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

**Symptoms** Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing.

#### Numerical measures of toxicity

##### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 3,673.10 mg/kg  |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 4.79 mg/l       |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |





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### Component Information

| Chemical name                   | Oral LD50            | Dermal LD50             | Inhalation LC50                                      |
|---------------------------------|----------------------|-------------------------|--|
| propan-1-ol                     | = 1870 mg/kg ( Rat ) | = 4049 mg/kg ( Rabbit ) | > 33.8 mg/L ( Rat ) 4 h                              |
| guanidinium chloride            | = 475 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | = 3.181 mg/L ( Rat ) 4 h<br>= 7.655 mg/L ( Rat ) 4 h |
| Sodiumalkylsarcosinate(lauryl-) | > 5000 mg/kg ( Rat ) |                         | 0.05 - 0.5 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>         | Classification based on data available for ingredients. Causes skin irritation.                  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Causes serious eye damage. |
| <b>Respiratory or skin sensitisation</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | No information available.  |
| <b>Reproductive toxicity</b>             | No information available.  |
| <b>STOT - single exposure</b>            | May cause drowsiness or dizziness.   |
| <b>STOT - repeated exposure</b>          | No information available.  |
| <b>Aspiration hazard</b>                 | No information available.  |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties



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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 unknown hazards to the aquatic environment.

| Chemical name                   | Algae/aquatic plants | Fish                                       | Toxicity to microorganisms | Crustacea  |
|---------------------------------|----------------------|--|----------------------------|--|
| propan-1-ol                     | -                    | LC50: =4480mg/L (96h, Pimephales promelas) | -                          | EC50: =3642mg/L (48h, Daphnia magna)<br>EC50: 3339 - 3977mg/L (48h, Daphnia magna) |
| Sodiumalkylsarcosinate(lauryl-) | -                    | LC50: =107mg/L (96h, Danio rerio)          | -                          | -  |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

#### Component Information

| Chemical name        | Partition coefficient |
|----------------------|-----------------------|
| propan-1-ol          | 0.2                   |
| guanidinium chloride | -1.7                  |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
|---------------|-------------------------|



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|                                 |                                 |
|---------------------------------|---------------------------------|
| propan-1-ol                     | The substance is not PBT / vPvB |
| guanidinium chloride            | The substance is not PBT / vPvB |
| Sodiumalkylsarcosinate(lauryl-) | 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** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## SECTION 14: Transport information

### IATA

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| 14.1 UN number or ID number       | UN1274                              |
| 14.2 UN proper shipping name      | n-Propanol solution                 |
| 14.3 Transport hazard class(es)   | 3                                   |
| 14.4 Packing group                | III                                 |
| Description                       | UN1274, n-Propanol solution, 3, III |
| 14.5 Environmental hazards        | No                                  |
| 14.6 Special precautions for user |                                     |
| Special Provisions                | A3                                  |
| ERG Code                          | 3L                                  |

### IMDG

|                                 |  |
|---------------------------------|--|
| 14.1 UN number or ID number     | UN1274   |
| 14.2 UN proper shipping name    | n-Propanol solution                              |
| 14.3 Transport hazard class(es) | 3  |
| 14.4 Packing group              | III  |
| Description                     | UN1274, n-Propanol solution, 3, III, (33°C c.c.) |
| 14.5 Marine pollutant           | NP   |



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Environmental hazards No  
14.6 Special precautions for user  
Special Provisions 223  
EmS-No. F-E, S-D No information available  
14.7 Maritime transport in bulk  
according to IMO instruments No information available

### RID

14.1 UN number or ID number UN1274  
14.2 UN proper shipping name n-Propanol solution  
14.3 Transport hazard class(es) 3  
14.4 Packing group III  
Description UN1274, n-Propanol solution, 3, III  
14.5 Environmental hazards No  
14.6 Special precautions for user  
Special Provisions None  
Classification code F1

### ADR

14.1 UN number or ID number UN1274  
14.2 UN proper shipping name n-Propanol solution  
14.3 Transport hazard class(es) 3  
14.4 Packing group III  
Description UN1274, n-Propanol solution, 3, III, (D/E)  
14.5 Environmental hazards No  
14.6 Special precautions for user  
Special Provisions None  
Classification code F1  
Tunnel restriction code (D/E)

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name          | French RG number | Title |
|------------------------|------------------|-------|
| propan-1-ol<br>71-23-8 | RG 84            | -     |

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



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Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

| Chemical name                  | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--------------------------------|---|--|
| propan-1-ol - 71-23-8          | 75.                                       |  |
| guanidinium chloride - 50-01-1 | 75.                                       |  |

### Persistent Organic Pollutants



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Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

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

Not applicable

### Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name         | Biocidal Products Regulation (EU) No 528/2012 (BPR)   |
|-----------------------|---|
| propan-1-ol - 71-23-8 | Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |

### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

#### DSL/NDSL

#### EINECS/ELINCS

#### ENCS

#### IECSC

#### KECI

#### PICCS

#### AIIC

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECI** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Chemical Substances



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## WP-01 - Wash buffer BN 1

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H336 - May cause drowsiness or dizziness

#### 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

Sk\*

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 |



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|       |                    |
|-------|--------------------|
| 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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 11-Jul-2024

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**





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

### 1.1. Product identifier

**Product Code(s)** WP-08  
**Product Name** Wash buffer PN 1/FN 1/TN 1  
**Form** Not applicable  
**Unique Formula Identifier (UFI)** XKEP-DNFN-300M-TRQ4  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |



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|                |  |
|----------------|--|
| Croatia        |  |
| Cyprus         |  |
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|  |                     |
|--|---------------------|
| Skin corrosion/irritation                        | Category 2 - (H315) |
| Serious eye damage/eye irritation                | Category 1 - (H318) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Category 3 Narcotic effects                      |                     |
| Flammable liquids                                | Category 3 - (H226) |

### 2.2. Label elements

Contains propan-1-ol



Signal word  
Danger



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### Hazard statements

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness  
H226 - Flammable liquid and vapour

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish  
P403 + P235 - Store in a well-ventilated place. Keep cool

### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|---------------|---|--|
| propan-1-ol   | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** Aqueous solution of organic solvent.

| Chemical name          | Weight-% | REACH registration number | EC No (EU Index No)       | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|------------------------|----------|---------------------------|---------------------------|---|------------------------------------|----------|----------------------|
| propan-1-ol<br>71-23-8 | 20 - 40  | -                         | 200-746-9<br>(603-003-00) | Flam. Liq. 2 (H225)<br>Eye Dam. 1 (H318)                        |                                    |          |                      |



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|                                 |         |   |                                 |  |  |  |  |
|---------------------------------|---------|---|---------------------------------|--|--|--|--|
|                                 |         |   | -0)                             | STOT SE 3 (H336)   |  |  |  |
| guanidinium chloride<br>50-01-1 | 10 - 20 | - | 200-002-3<br>(607-148-00<br>-0) | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) |  |  |  |

**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<br>mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|---------------------------------|-----------------|----------------------|--|---|---|
| propan-1-ol<br>71-23-8          | 1870            | 4049                 | 33.8   | No data available                           | No data available                       |
| guanidinium chloride<br>50-01-1 | 475             | 2000                 | No data available                              | No data available                           | No data available                       |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                       |   |
|-----------------------|---|
| <b>General advice</b> | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>     | Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.  |
| <b>Eye contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>      | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.  |



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|   |  |
|---|--|
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |
|---|--|

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|-----------------|--|

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

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

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

|                                     |   |
|-------------------------------------|---|
| <b>Suitable Extinguishing Media</b> | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. |
|-------------------------------------|---|

|                   |  |
|-------------------|--|
| <b>Large Fire</b> | CAUTION: Use of water spray when fighting fire may be inefficient. |
|-------------------|--|

|                                       |   |
|---------------------------------------|---|
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams. |
|---------------------------------------|---|

### **5.2. Special hazards arising from the substance or mixture**

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
|---|---|

### **5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Special protective equipment and precautions for fire-fighters</b> | 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**

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. |
|-----------------------------|--|

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

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

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**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.

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,



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sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

Storage class (TRGS510) 3. LGK3 - Flammable liquids.

### 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  | Bulgaria   | Croatia  |
|------------------------|--|--|--|--|--|
| propan-1-ol<br>71-23-8 | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>                           | TWA: 100 ppm<br>TWA: 250 mg/m <sup>3</sup>   | TWA: 300.0 mg/m <sup>3</sup><br>STEL: 500.0 mg/m <sup>3</sup>                              | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup> |
| Chemical name          | Cyprus                                     | Czech Republic   | Denmark  | Estonia  | Finland  |
| propan-1-ol<br>71-23-8 | -  | TWA: 500 mg/m <sup>3</sup><br>Sk*<br>Ceiling: 1000 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>Sk* | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 620 mg/m <sup>3</sup> |
| Chemical name          | France                                     | Germany TRGS   | Germany DFG  | Greece   | Hungary  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup> | -  | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup> | -  |
| Chemical name          | Ireland                                    | Italy MDLPS  | Italy AIDII  | Latvia   | Lithuania  |
| propan-1-ol<br>71-23-8 | TWA: 100 ppm<br>STEL: 300 ppm<br>Sk*       | -  | TWA: 100 ppm<br>TWA: 246 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup>  | -  |
| Chemical name          | Luxembourg                                 | Malta  | Netherlands  | Norway   | Poland   |
| propan-1-ol            | -  | -  | -  | TWA: 100 ppm   | TWA: 200 mg/m <sup>3</sup>   |



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|                        |  |   |   |  |  |
|------------------------|--|---|---|--|--|
| 71-23-8                |  |   |   | TWA: 245 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 306.25 mg/m <sup>3</sup><br>Sk* | STEL: 600 mg/m <sup>3</sup><br>Sk*   |
| Chemical name          | Portugal   | Romania   | Slovakia  | Slovenia   | Spain  |
| propan-1-ol<br>71-23-8 | TWA: 200 ppm<br>STEL: 400 ppm  | TWA: 81 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 203 ppm<br>STEL: 500 mg/m <sup>3</sup> | -   | -  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>Sk* |
| Chemical name          | Sweden   |   | Switzerland                                       |  | United Kingdom   |
| propan-1-ol<br>71-23-8 | NGV: 150 ppm<br>NGV: 350 mg/m <sup>3</sup><br>Vägledande KGV: 250 ppm<br>Vägledande KGV: 600 mg/m <sup>3</sup> |   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Sk* |  | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup><br>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)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves.

**Skin and body protection** Long sleeved clothing. Chemical resistant apron. Antistatic boots. 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.





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**General hygiene considerations** Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Appearance      | Liquid                   |
| Colour          | clear to yellow          |
| Odour           | Characteristic.          |
| Odour threshold | No information available |

| Property                                | Values                   | Remarks • Method         |
|---|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | None known               |
| Initial boiling point and boiling range | No data available        | None known               |
| Flammability                            | 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        |                          |
| Flash point                             | 32 °C                    | None known               |
| Autoignition temperature                | No data available        | None known               |
| Decomposition temperature               |                          | None known               |
| pH                                      | 5.5                      | None known               |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | None known               |
| Dynamic viscosity                       | No data available        | None known               |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | None known               |
| Partition coefficient                   | No data available        | None known               |
| Vapour pressure                         | No data available        | None known               |
| Relative density                        | 0.9953                   | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapour density                 | No data available        | None known               |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |



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## 9.2. Other information

9.2.1. Information with regards 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 Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

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

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|              |  |
|--------------|--|
| Inhalation   | Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness.   |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.                |
| Skin contact | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                   |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

|          |   |
|----------|---|
| Symptoms | Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|----------|---|

### Numerical measures of toxicity

#### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 3,293.40 mg/kg  |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

#### Component Information

| Chemical name        | Oral LD50            | Dermal LD50             | Inhalation LC50                                      |
|----------------------|----------------------|-------------------------|--|
| propan-1-ol          | = 1870 mg/kg ( Rat ) | = 4049 mg/kg ( Rabbit ) | > 33.8 mg/L ( Rat ) 4 h                              |
| guanidinium chloride | = 475 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | = 3.181 mg/L ( Rat ) 4 h<br>= 7.655 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. Causes skin irritation.          |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes burns. Causes serious eye |



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damage.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause drowsiness or dizziness.

**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 unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|------|----------------------------|-----------|
|---------------|----------------------|------|----------------------------|-----------|



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|             |   |   |   |  |
|-------------|---|---|---|--|
| propan-1-ol | - | LC50: =4480mg/L (96h,<br>Pimephales promelas) | - | EC50: =3642mg/L (48h,<br>Daphnia magna)<br>EC50: 3339 - 3977mg/L<br>(48h, Daphnia magna) |
|-------------|---|---|---|--|

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

#### Component Information

| Chemical name        | Partition coefficient |
|----------------------|-----------------------|
| propan-1-ol          | 0.2                   |
| guanidinium chloride | -1.7                  |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name        | PBT and vPvB assessment         |
|----------------------|---------------------------------|
| propan-1-ol          | The substance is not PBT / vPvB |
| guanidinium chloride | 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 Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.



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## Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## SECTION 14: Transport information

### IATA

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| 14.1 UN number or ID number       | UN1274                              |
| 14.2 UN proper shipping name      | n-Propanol solution                 |
| 14.3 Transport hazard class(es)   | 3                                   |
| 14.4 Packing group                | III                                 |
| Description                       | UN1274, n-Propanol solution, 3, III |
| 14.5 Environmental hazards        | No                                  |
| 14.6 Special precautions for user |                                     |
| Special Provisions                | A3                                  |
| ERG Code                          | 3L                                  |

### IMDG

|  |  |
|--|--|
| 14.1 UN number or ID number                                  | UN1274   |
| 14.2 UN proper shipping name                                 | n-Propanol solution                              |
| 14.3 Transport hazard class(es)                              | 3  |
| 14.4 Packing group   | III  |
| Description  | UN1274, n-Propanol solution, 3, III, (32°C c.c.) |
| 14.5 Marine pollutant  | NP   |
| Environmental hazards  | No   |
| 14.6 Special precautions for user                            |  |
| Special Provisions   | 223  |
| EmS-No.  | F-E, S-D No information available                |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available                         |

### RID

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| 14.1 UN number or ID number       | UN1274                              |
| 14.2 UN proper shipping name      | n-Propanol solution                 |
| 14.3 Transport hazard class(es)   | 3                                   |
| 14.4 Packing group                | III                                 |
| Description                       | UN1274, n-Propanol solution, 3, III |
| 14.5 Environmental hazards        | No                                  |
| 14.6 Special precautions for user |                                     |
| Special Provisions                | None                                |
| Classification code               | F1                                  |

### ADR

|                              |                     |
|------------------------------|---------------------|
| 14.1 UN number or ID number  | UN1274              |
| 14.2 UN proper shipping name | n-Propanol solution |



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|                                   |  |
|-----------------------------------|--|
| 14.3 Transport hazard class(es)   | 3  |
| 14.4 Packing group                | III  |
| Description                       | UN1274, n-Propanol solution, 3, III, (D/E) |
| 14.5 Environmental hazards        | No   |
| 14.6 Special precautions for user |  |
| Special Provisions                | None                                       |
| Classification code               | F1   |
| Tunnel restriction code           | (D/E)                                      |

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name          | French RG number | Title |
|------------------------|------------------|-------|
| propan-1-ol<br>71-23-8 | RG 84            | -     |

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

##### Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on



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waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

## 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.

## Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

| Chemical name                  | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--------------------------------|---|--|
| propan-1-ol - 71-23-8          | 75.                                       |  |
| guanidinium chloride - 50-01-1 | 75.                                       |  |

## Persistent Organic Pollutants

Not applicable

## Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

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

Not applicable

## Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name         | Biocidal Products Regulation (EU) No 528/2012 (BPR)   |
|-----------------------|---|
| propan-1-ol - 71-23-8 | Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |

## International Inventories





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## TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

DSL/NDSL  
EINECS/ELINCS  
ENCS  
IECSC  
KECI  
PICCS  
AIIIC

Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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

H225 - Highly flammable liquid and vapour  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

#### Legend

SVHC: Substances of Very High Concern for Authorisation:



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### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)  
Ceiling Maximum limit value

STEL  
Sk\*

STEL (Short Term Exposure Limit)  
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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme



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

**Revision date** 11-Jul-2024

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

## Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**



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

### 1.1. Product identifier

**Product Code(s)** WP-10  
**Product Name** Wash buffer PN 2/FN 2/ TN 2/ BLN/ PLN  
**Form** Not applicable  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |
| Croatia                                   |                          |
| Cyprus                                    |                          |



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|                |  |
|----------------|--|
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

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]

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

This product does not contain any known or suspected endocrine disruptors.



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

### **3.1 Substances**

Not applicable

### **3.2 Mixtures**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Chemical nature** aqueous solution.

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

Acute Toxicity Estimate

No information available

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

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

### **4.1. Description of 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.<br>Consult a doctor. |
| <b>Skin contact</b> | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                    |
| <b>Ingestion</b>    | 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**

**Note to doctors** Treat symptomatically.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

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

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## 7.1. Precautions for safe handling

### **Advice on safe handling**

Ensure adequate ventilation.

### **General hygiene considerations**

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

## 7.2. Conditions for safe storage, including any incompatibilities

### **Storage Conditions**

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

## **TRGS510 Storage of hazardous substances in portable containers**

### **Storage class (TRGS510)**

12. LGK12 - Non-combustible liquids.

## 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**

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

#### **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)**

No information available.

#### **Predicted No Effect Concentration (PNEC)**

No information available.

### 8.2. Exposure controls

#### **Personal protective equipment**





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|                                 |   |
|---------------------------------|---|
| Eye/face protection             | Avoid contact with eyes. Wear safety glasses with side shields (or goggles).  |
| Hand protection                 | The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber 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. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. |
| Environmental exposure controls | Do not allow into any sewer, on the ground or into any body of water.   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Liquid                    |
| Appearance      | Liquid                    |
| Colour          | clear                     |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values            | Remarks • Method         |
|---|-------------------|--------------------------|
| Melting point / freezing point          | No data available | None known               |
| Initial boiling point and boiling range | No data available | None known               |
| Flammability                            | 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 |                          |
| Flash point                             | No data available | None known               |
| Autoignition temperature                | No data available | None known               |
| Decomposition temperature               |                   | None known               |
| pH                                      | 6.5               | None known               |
| pH (as aqueous solution)                | No data available | No information available |
| Kinematic viscosity                     | No data available | None known               |
| Dynamic viscosity                       | No data available | None known               |
| Water solubility                        | No data available | None known               |
| Solubility(ies)                         | No data available | None known               |



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|                            |                          |            |
|----------------------------|--------------------------|------------|
| Partition coefficient      | No data available        | None known |
| Vapour pressure            | No data available        | None known |
| Relative density           | 0.998                    | None known |
| Bulk density               | No data available        |            |
| Liquid Density             | No data available        |            |
| Relative vapour density    | No data available        | None known |
| Particle characteristics   |                          |            |
| Particle Size              | No information available |            |
| Particle Size Distribution | No information available |            |

### 9.2. Other information

9.2.1. Information with regards 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.

Hazardous decomposition products None known based on information supplied.



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## 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.

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.

#### Numerical measures of toxicity

##### Acute toxicity

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

|                               |           |       |
|-------------------------------|-----------|-------|
| ATEmix (oral)                 | 99,999.00 | mg/kg |
| ATEmix (dermal)               | 99,999.00 | mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 | ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 | mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 | mg/l  |

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.



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**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** The environmental impact of this product has not been fully investigated.

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

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential



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Bioaccumulation No information available.

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

### 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       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### IMDG

|                              |               |
|------------------------------|---------------|
| 14.1 UN number or ID number  | Not regulated |
| 14.2 UN proper shipping name | Not regulated |



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|  |                               |
|--|-------------------------------|
| 14.3 Transport hazard class(es)                              | Not regulated                 |
| 14.4 Packing group   | Not regulated                 |
| 14.5 Marine pollutant  | Not applicable                |
| 14.6 Special precautions for user                            |                               |
| Special Provisions   | None No information available |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available      |

### RID

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### ADR

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

## SECTION 15: Regulatory information

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

Water hazard class (WGK) non-hazardous to water (nwg)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling



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packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### Persistent Organic Pollutants

Not applicable

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

Not applicable

### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily



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exempt from TSCA and regulated under other laws (e.g., FFDCa, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

DSL/NDSL  
EINECS/ELINCS  
ENCS  
IECSC  
KECI  
PICCS  
AIIIC

Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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         | Sk*  | 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 |





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|                                       |                    |
|---------------------------------------|--------------------|
| 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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance



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with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**



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

### 1.1. Product identifier

**Product Code(s)** EB-03  
**Product Name** Elution buffer AMP  
**Form** Not applicable  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |
| Croatia                                   |                          |
| Cyprus                                    |                          |



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|                |  |
|----------------|--|
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

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]

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

|               |   |  |
|---------------|---|--|
| Chemical name | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|---------------|---|--|



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|                          |   |   |
|--------------------------|---|---|
| 2-amino-2-methylpropanol | - | - |
|--------------------------|---|---|

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature aqueous solution.

| Chemical name                        | Weight-% | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP]       | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--------------------------------------|----------|---------------------------|-----------------------------|---|------------------------------------|----------|----------------------|
| 2-amino-2-methylpropanol<br>124-68-5 | 0.1 - 1  | -                         | 204-709-8<br>(603-070-00-6) | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) |                                    |          |                      |

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 - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------------|-----------------|-------------------|---|--|--------------------------------------|
| 2-amino-2-methylpropanol<br>124-68-5 | 2900            | 2000              | No data available                           | No data available                        | No data available                    |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures



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|              |  |
|--------------|--|
| Inhalation   | Remove to fresh air.   |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br>Consult a doctor. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                    |
| 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

Note to doctors Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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**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.

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

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

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

**Storage class (TRGS510)** 12. LGK12 - Non-combustible liquids.

### 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

---



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### Exposure Limits

| Chemical name                        | France   | Germany TRGS                                    | Germany DFG  | Greece  | Hungary |
|--------------------------------------|----------|---|--|---|---------|
| 2-amino-2-methylpropanol<br>124-68-5 | -        | TWA: 1 ppm<br>TWA: 3.7 mg/m <sup>3</sup><br>Sk* | TWA: 1 ppm<br>TWA: 3.7 mg/m <sup>3</sup><br>Peak: 2 ppm<br>Peak: 7.4 mg/m <sup>3</sup><br>Sk*      | -   | -       |
| Chemical name                        | Portugal | Romania   | Slovakia   | Slovenia  | Spain   |
| 2-amino-2-methylpropanol<br>124-68-5 | -        | -   | -  | TWA: 3.7 mg/m <sup>3</sup><br>TWA: 1 ppm<br>STEL: 2 ppm<br>STEL: 7.4 mg/m <sup>3</sup><br>Sk* | -       |
| Chemical name                        | Sweden   |   | Switzerland  | United Kingdom  |         |
| 2-amino-2-methylpropanol<br>124-68-5 | -        |   | TWA: 2.4 ppm<br>TWA: 8.7 mg/m <sup>3</sup><br>STEL: 4.8 ppm<br>STEL: 17.4 mg/m <sup>3</sup><br>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)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Personal protective equipment

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

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves.

**Skin and body protection** Wear suitable protective clothing.

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





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

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

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Liquid                    |
| Appearance      | Liquid                    |
| Colour          | clear                     |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values                   | Remarks • Method         |
|---|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | None known               |
| Initial boiling point and boiling range | No data available        | None known               |
| Flammability                            | 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        |                          |
| Flash point                             | No data available        | None known               |
| Autoignition temperature                | No data available        | None known               |
| Decomposition temperature               |                          | None known               |
| pH                                      | 9                        | None known               |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | None known               |
| Dynamic viscosity                       | No data available        | None known               |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | None known               |
| Partition coefficient                   | No data available        | None known               |
| Vapour pressure                         | No data available        | None known               |
| Relative density                        | 0.9969                   | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapour density                 | No data available        | None known               |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |



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### 9.2. Other information

9.2.1. Information with regards 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.

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

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**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.

**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.

### Numerical measures of toxicity

#### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 99,999.00 mg/kg |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

#### Component Information

| Chemical name            | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|--------------------------|----------------------|-------------------------|-----------------|
| 2-amino-2-methylpropanol | = 2900 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) |                 |

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.



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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 unknown hazards to the aquatic environment.

| Chemical name            | Algae/aquatic plants                                  | Fish  | Toxicity to microorganisms | Crustacea                                   |
|--------------------------|---|---|----------------------------|---|
| 2-amino-2-methylpropanol | EC50: =520mg/L (72h, <i>Desmodesmus subspicatus</i> ) | LC50: =190mg/L (96h, <i>Lepomis macrochirus</i> ) | -                          | EC50: =193mg/L (48h, <i>Daphnia magna</i> ) |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential



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Bioaccumulation No information available.

### Component Information

| Chemical name            | Partition coefficient |
|--------------------------|-----------------------|
| 2-amino-2-methylpropanol | -0.63                 |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name            | PBT and vPvB assessment         |
|--------------------------|---------------------------------|
| 2-amino-2-methylpropanol | 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     | Not regulated  |
| 14.2 UN proper shipping name    | Not regulated  |
| 14.3 Transport hazard class(es) | Not regulated  |
| 14.4 Packing group              | Not regulated  |
| 14.5 Environmental hazards      | Not applicable |



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### 14.6 Special precautions for user Special Provisions

None

### IMDG

|   |                               |
|---|-------------------------------|
| 14.1 UN number or ID number                                     | Not regulated                 |
| 14.2 UN proper shipping name                                    | Not regulated                 |
| 14.3 Transport hazard class(es)                                 | Not regulated                 |
| 14.4 Packing group  | Not regulated                 |
| 14.5 Marine pollutant   | Not applicable                |
| 14.6 Special precautions for user<br>Special Provisions         | None No information available |
| 14.7 Maritime transport in bulk<br>according to IMO instruments | No information available      |

### RID

|   |                |
|---|----------------|
| 14.1 UN number or ID number                             | Not regulated  |
| 14.2 UN proper shipping name                            | Not regulated  |
| 14.3 Transport hazard class(es)                         | Not regulated  |
| 14.4 Packing group                                      | Not regulated  |
| 14.5 Environmental hazards                              | Not applicable |
| 14.6 Special precautions for user<br>Special Provisions | None           |

### ADR

|   |                |
|---|----------------|
| 14.1 UN number or ID number                             | Not regulated  |
| 14.2 UN proper shipping name                            | Not regulated  |
| 14.3 Transport hazard class(es)                         | Not regulated  |
| 14.4 Packing group                                      | Not regulated  |
| 14.5 Environmental hazards                              | Not applicable |
| 14.6 Special precautions for user<br>Special Provisions | None           |

## SECTION 15: Regulatory information

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

Water hazard class (WGK) non-hazardous to water (nwg)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals



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(REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

| Chemical name                       | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|-------------------------------------|---|--|
| 2-amino-2-methylpropanol - 124-68-5 | 75.                                       |  |

### Persistent Organic Pollutants

Not applicable

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

Not applicable



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### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

#### DSL/NDSL

#### EINECS/ELINCS

#### ENCS

#### IECSC

#### KECI

#### PICCS

#### AIIC

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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





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TWA  
Ceiling

TWA (time-weighted average)  
Maximum limit value

STEL  
Sk\*

STEL (Short Term Exposure Limit)  
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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set



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World Health Organization

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**



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

### 1.1. Product identifier

**Product Code(s)** PAS-07  
**Product Name** sbeadex™ particle suspension + EDTA  
**Form** Not applicable  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |
| Croatia                                   |                          |
| Cyprus                                    |                          |



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## PAS-07 - sbeadex™ particle suspension + EDTA

|                |  |
|----------------|--|
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

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]

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

Causes mild skin irritation.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

|               |   |  |
|---------------|---|--|
| Chemical name | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|---------------|---|--|



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|                  |   |   |
|------------------|---|---|
| Edetate disodium | - | - |
|------------------|---|---|

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature aqueous solution.

| Chemical name                                  | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--|----------|---------------------------|---------------------|--|------------------------------------|----------|----------------------|
| Silicon Dioxide - Crystalline Free 112926-00-8 | 5 - <10  | -                         | 601-214-2           | -  |                                    |          |                      |
| Edetate disodium 6381-92-6                     | 3 - <5   | -                         | 680-249-5           | Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT RE 2 (H373)<br>Aquatic Chronic 3 (H412) |                                    |          |                      |

**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 - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------------|-------------------|---|--|--------------------------------------|
| Silicon Dioxide - Crystalline Free 112926-00-8 | 5000            | 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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)



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## 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.<br>Consult a doctor. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                    |
| Ingestion    | Rinse mouth.   |

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

|          |   |
|----------|---|
| Symptoms | Prolonged contact may cause redness and irritation. |
|----------|---|

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

|                 |                        |
|-----------------|------------------------|
| Note to doctors | Treat symptomatically. |
|-----------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable Extinguishing Media   | Use extinguishing measures that are appropriate to local circumstances and the 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.<br>Use personal protection equipment. |
|--|---|



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## **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.

### **7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation.

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

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

**Storage Conditions** Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### **TRGS510 Storage of hazardous substances in portable containers**

**Storage class (TRGS510)** 12. LGK12 - Non-combustible liquids.

### **7.3. Specific end use(s)**

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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                                  | European Union  | Austria  | Belgium   | Bulgaria  | Croatia   |
|--|---|--|---|---|---|
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   | TWA: 4 mg/m <sup>3</sup>                                 | TWA: 10 mg/m <sup>3</sup>                                   | TWA: 10.0 mg/m <sup>3</sup>                             | -   |
| Chemical name                                  | Cyprus  | Czech Republic   | Denmark   | Estonia   | Finland   |
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   | TWA: 0.1 mg/m <sup>3</sup><br>TWA: 4.0 mg/m <sup>3</sup> | -   | TWA: 2 mg/m <sup>3</sup>                                | TWA: 5 mg/m <sup>3</sup>  |
| Chemical name                                  | France  | Germany TRGS   | Germany DFG   | Greece  | Hungary   |
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   | TWA: 4 mg/m <sup>3</sup>                                 | TWA: 0.02 mg/m <sup>3</sup><br>Peak: 0.16 mg/m <sup>3</sup> | -   | -   |
| Chemical name                                  | Ireland   | Italy MDLPS  | Italy AIDII   | Latvia  | Lithuania   |
| Silicon Dioxide - Crystalline Free 112926-00-8 | TWA: 6 mg/m <sup>3</sup><br>TWA: 2.4 mg/m <sup>3</sup><br>STEL: 18 mg/m <sup>3</sup><br>STEL: 7.2 mg/m <sup>3</sup> | -  | -   | TWA: 1 mg/m <sup>3</sup>                                | -   |
| Chemical name                                  | Luxembourg  | Malta  | Netherlands   | Norway  | Poland  |
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   | -  | -   | TWA: 1.5 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup>   |
| Chemical name                                  | Portugal  | Romania  | Slovakia  | Slovenia  | Spain   |
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   | -  | -   | TWA: 4 mg/m <sup>3</sup>                                | -   |
| Chemical name                                  | Sweden  |  | Switzerland   |   | United Kingdom  |
| Silicon Dioxide - Crystalline Free 112926-00-8 | -   |  | TWA: 4 mg/m <sup>3</sup>                                    |   | TWA: 6 mg/m <sup>3</sup><br>TWA: 2.4 mg/m <sup>3</sup><br>STEL: 18 mg/m <sup>3</sup><br>STEL: 7.2 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) No information available.





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**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Personal protective equipment

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

**Hand protection** Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber 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. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                        |                           |
|------------------------|---------------------------|
| <b>Physical state</b>  | Liquid                    |
| <b>Appearance</b>      | Liquid                    |
| <b>Colour</b>          | brown                     |
| <b>Odour</b>           | No information available. |
| <b>Odour threshold</b> | No information available  |

| <u>Property</u>                                | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available | None known              |
| <b>Initial boiling point and boiling range</b> | No data available | None known              |
| <b>Flammability</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 |                         |



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## PAS-07 - sbeadex™ particle suspension + EDTA

|                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
| Flash point                | No data available        | None known               |
| Autoignition temperature   | No data available        | None known               |
| Decomposition temperature  |                          | None known               |
| pH                         | 8                        | None known               |
| pH (as aqueous solution)   | No data available        | No information available |
| Kinematic viscosity        | No data available        | None known               |
| Dynamic viscosity          | No data available        | None known               |
| Water solubility           | No data available        | None known               |
| Solubility(ies)            | No data available        | None known               |
| Partition coefficient      | No data available        | None known               |
| Vapour pressure            | No data available        | None known               |
| Relative density           | 1.082                    | None known               |
| Bulk density               | No data available        |                          |
| Liquid Density             | No data available        |                          |
| Relative vapour density    | No data available        | None known               |
| Particle characteristics   |                          |                          |
| Particle Size              | No information available |                          |
| Particle Size Distribution | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards 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



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## PAS-07 - sbeadex™ particle suspension + EDTA

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

### 10.5. Incompatible materials

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

**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. Causes mild skin irritation. |
| Ingestion    | Specific test data for the substance or mixture is not available.                              |

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

**Symptoms** Prolonged contact may cause redness and irritation.

#### Numerical measures of toxicity

##### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 99,999.00 mg/kg |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 43.60 mg/l      |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

##### Component Information

---



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## PAS-07 - sbeadex™ particle suspension + EDTA

| Chemical name                      | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|------------------------------------|----------------------|-------------|-----------------|
| Silicon Dioxide - Crystalline Free | > 5000 mg/kg ( Rat ) |             |                 |
| Edetate disodium                   | = 4500 mg/kg ( Rat ) |             |                 |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** 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.



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PAS-07 - sbeadex™ particle suspension + EDTA

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

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

| Chemical name                      | Algae/aquatic plants                                  | Fish                                     | Toxicity to microorganisms | Crustacea                                 |
|------------------------------------|---|--|----------------------------|---|
| Silicon Dioxide - Crystalline Free | EC50: =440mg/L (72h, Pseudokirchneriella subcapitata) | LC50: =5000mg/L (96h, Brachydanio rerio) | -                          | EC50: =7600mg/L (48h, Ceriodaphnia dubia) |
| Edetate disodium                   | -   | LC50: 41 mg/l (96h, Fish)                | -                          | -   |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

| Chemical name    | PBT and vPvB assessment         |
|------------------|---------------------------------|
| Edetate disodium | 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.



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## 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       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### IMDG

|  |                               |
|--|-------------------------------|
| 14.1 UN number or ID number                                  | Not regulated                 |
| 14.2 UN proper shipping name                                 | Not regulated                 |
| 14.3 Transport hazard class(es)                              | Not regulated                 |
| 14.4 Packing group   | Not regulated                 |
| 14.5 Marine pollutant  | Not applicable                |
| 14.6 Special precautions for user                            |                               |
| Special Provisions   | None No information available |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available      |

### RID

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### ADR

|                                 |               |
|---------------------------------|---------------|
| 14.1 UN number or ID number     | Not regulated |
| 14.2 UN proper shipping name    | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |



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|                                   |                |
|-----------------------------------|----------------|
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

## SECTION 15: Regulatory information

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

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

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

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.



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## PAS-07 - sbeadex™ particle suspension + EDTA

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### Persistent Organic Pollutants

Not applicable

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

Not applicable

### EU - Plant Protection Products (1107/2009/EC)

| Chemical name                                    | EU - Plant Protection Products (1107/2009/EC) |
|--|---|
| Silicon Dioxide - Crystalline Free - 112926-00-8 | Plant protection agent                        |

### Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name                                    | Biocidal Products Regulation (EU) No 528/2012 (BPR)                                |
|--|--|
| Silicon Dioxide - Crystalline Free - 112926-00-8 | Product-type 18: Insecticides, acaricides and products to control other arthropods |

### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

DSL/NDL  
EINECS/ELINCS  
ENCS  
IECSC  
KECI  
PICCS  
AIIC

Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status

### Legend:





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**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## 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

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure  
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         | Sk*  | 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 |



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|                          |                    |
|--------------------------|--------------------|
| 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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 11-Jul-2024

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

### Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

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

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

### 1.1. Product identifier

**Product Code(s)** EZ-03  
**Product Name** PK Solution/ Protease Solution  
**Form** Not applicable  
**Unique Formula Identifier (UFI)** YKK0-C2YF-P00J-FYYX  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Genomics GmbH  
Ostendstrasse 25  
Berlin 12459  
Germany

Tel: +49 30 1663546-00 (8am-4pm CET)

For further information, please contact

**E-mail address** genomics.sdsrequest@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call Poison Control Center, Poison information centre Mainz, +49-(0)-6131-19240 (24h)  
CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |



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

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## EZ-03 - PK Solution/ Protease Solution

|                |  |
|----------------|--|
| Croatia        |  |
| Cyprus         |  |
| Czech Republic |  |
| Denmark        |  |
| France         |  |
| Hungary        |  |
| Ireland        |  |
| Italy          |  |
| Lithuania      |  |
| Luxembourg     |  |
| Netherlands    |  |
| Norway         |  |
| Portugal       |  |
| Romania        |  |
| Slovakia       |  |
| Slovenia       |  |
| Spain          |  |
| Sweden         |  |
| Switzerland    |  |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|                           |                     |
|---------------------------|---------------------|
| Respiratory sensitisation | Category 1 - (H334) |
|---------------------------|---------------------|

### 2.2. Label elements

Contains Proteinase, Tritirachium album serine



Signal word  
Danger

### Hazard statements

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled



# 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

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## EZ-03 - PK Solution/ Protease Solution

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

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

Causes mild skin irritation.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|---------------|---|--|
| Glycerol      | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** aqueous solution.

| Chemical name   | Weight-% | REACH registration<br>number | EC No (EU<br>Index No)          | Classification according<br>to Regulation (EC) No.<br>1272/2008 [CLP]                   | Specific<br>concentration<br>limit (SCL) | M-Factor | M-Factor<br>(long-term) |
|---|----------|------------------------------|---------------------------------|---|--|----------|-------------------------|
| Glycerol<br>56-81-5                                       | 40 - 60  | -                            | 200-289-5                       | -   |  |          |                         |
| Proteinase,<br>Tritirachium album<br>serine<br>39450-01-6 | 1 - <3   | -                            | 254-457-8<br>(647-014-00<br>-9) | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>STOT SE 3 (H335) |  |          |                         |

**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 (ATE<sub>mix</sub>) for classifying a mixture



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## EZ-03 - PK Solution/ Protease Solution

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 - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|------------------|-----------------|-------------------|---|--|--------------------------------------|
| Glycerol 56-81-5 | 12600           | 10000             | 2.75  | No data available                        | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (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                         | May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.   |
| Eye contact                        | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.  |
| Skin contact                       | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.  |
| Ingestion                          | May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.   |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. |

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

|          |   |
|----------|---|
| Symptoms | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. |
|----------|---|

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

|                 |  |
|-----------------|--|
| Note to doctors | May cause sensitisation in susceptible persons. Treat symptomatically. |
|-----------------|--|



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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the 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** Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact.

### **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. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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

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

### **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### **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.



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### 6.4. Reference to other sections

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

### 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. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

#### General hygiene considerations

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### TRGS510 Storage of hazardous substances in portable containers

**Storage class (TRGS510)** 10. LGK10 - Combustible liquids unless storage class 3.

### 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                   | Bulgaria                  | Croatia                   |
|---------------------|----------------|--|---------------------------|---------------------------|---------------------------|
| Glycerol<br>56-81-5 | -              | -  | TWA: 10 mg/m <sup>3</sup> | -                         | TWA: 10 mg/m <sup>3</sup> |
| Chemical name       | Cyprus         | Czech Republic   | Denmark                   | Estonia                   | Finland                   |
| Glycerol<br>56-81-5 | -              | TWA: 10 mg/m <sup>3</sup><br>Ceiling: 15 mg/m <sup>3</sup> | -                         | TWA: 10 mg/m <sup>3</sup> | TWA: 20 mg/m <sup>3</sup> |
| Chemical name       | France         | Germany TRGS   | Germany DFG               | Greece                    | Hungary                   |





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|                     |                           |                            |   |   |   |
|---------------------|---------------------------|----------------------------|---|---|---|
| Glycerol<br>56-81-5 | TWA: 10 mg/m <sup>3</sup> | TWA: 200 mg/m <sup>3</sup> | TWA: 200 mg/m <sup>3</sup><br>Peak: 400 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup>                                 | -   |
| Chemical name       | Luxembourg                | Malta                      | Netherlands   | Norway  | Poland  |
| Glycerol<br>56-81-5 | -                         | -                          | -   | -   | TWA: 10 mg/m <sup>3</sup>                               |
| Chemical name       | Portugal                  | Romania                    | Slovakia  | Slovenia  | Spain   |
| Glycerol<br>56-81-5 | TWA: 10 mg/m <sup>3</sup> | -                          | TWA: 11 mg/m <sup>3</sup>                                 | TWA: 200 mg/m <sup>3</sup><br>STEL: 400 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup>                               |
| Chemical name       | Sweden                    |                            | Switzerland   |   | United Kingdom  |
| Glycerol<br>56-81-5 | -                         |                            | TWA: 50 mg/m <sup>3</sup><br>STEL: 100 mg/m <sup>3</sup>  |   | TWA: 10 mg/m <sup>3</sup><br>STEL: 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)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Personal protective equipment

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

**Hand protection** Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber 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** Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Liquid                    |
| Appearance      | Liquid                    |
| Colour          | clear                     |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values                   | Remarks • Method         |
|---|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | None known               |
| Initial boiling point and boiling range | No data available        | None known               |
| Flammability                            | 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        |                          |
| Flash point                             | No data available        | None known               |
| Autoignition temperature                | No data available        | None known               |
| Decomposition temperature               |                          | None known               |
| pH                                      | 8                        | None known               |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | None known               |
| Dynamic viscosity                       | No data available        | None known               |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | None known               |
| Partition coefficient                   | No data available        | None known               |
| Vapour pressure                         | No data available        | None known               |
| Relative density                        | 1.145                    | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapour density                 | No data available        | None known               |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available



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## 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.

**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 sensitisation in susceptible persons. (based on components).

**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. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).  
Causes mild skin irritation.

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### Ingestion

Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

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

#### Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Prolonged contact may cause redness and irritation.

### Numerical measures of toxicity

#### Acute toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 99,999.00 mg/kg |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

#### Component Information

| Chemical name | Oral LD50             | Dermal LD50          | Inhalation LC50         |
|---------------|-----------------------|----------------------|-------------------------|
| Glycerol      | = 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

#### Skin corrosion/irritation

Classification based on data available for ingredients. Causes mild skin irritation.

#### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

No information available.



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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 unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|--|----------------------------|-----------|
| Glycerol      | -                    | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | -                          | -         |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.



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### Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Glycerol      | -1.75                 |

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment         |
|---------------|---------------------------------|
| Glycerol      | 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       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |



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### IMDG

|  |                               |
|--|-------------------------------|
| 14.1 UN number or ID number                                  | Not regulated                 |
| 14.2 UN proper shipping name                                 | Not regulated                 |
| 14.3 Transport hazard class(es)                              | Not regulated                 |
| 14.4 Packing group   | Not regulated                 |
| 14.5 Marine pollutant  | Not applicable                |
| 14.6 Special precautions for user                            |                               |
| Special Provisions   | None No information available |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available      |

### RID

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### ADR

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

## SECTION 15: Regulatory information

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

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

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December



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2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### Persistent Organic Pollutants

Not applicable

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

Not applicable





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## International Inventories

### **TSCA**

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

### **DSL/NDSL**

### **EINECS/ELINCS**

### **ENCS**

### **IECSC**

### **KECI**

### **PICCS**

### **AIIC**

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

### **Chemical Safety Report**

A Chemical Safety Assessment is not required for this substance

## **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**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

### **Legend**

SVHC: Substances of Very High Concern for Authorisation:



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### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)  
Ceiling Maximum limit value

STEL  
Sk\*

STEL (Short Term Exposure Limit)  
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)  
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  
Australian 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)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme



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

**Revision date** 11-Jul-2024

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

### **Disclaimer**

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**