

Safety Data Sheets for M20496

Product identifiers

Product Code	M20496
Product Name	LUTHOR High-Definition Single-Cell 3'mRNA-Seq Library Prep Kit

Relevant identified uses of the products

Relevant identified uses	For Research Use Only. Not for use in diagnostic procedures.
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Details of the supplier of the safety data sheets

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

Attached documents

D01803MS650V0200	SDS D01803 LA, Lysis Agent
D01855MS651V0100	SDS D01855 H2O, Molecular Biology Grade Water
D01699MS652V0100	SDS D01699 NT, Nucleotides (dNTPs)
D01709MS690V0100	SDS D01709 RNA Amplification Primer, P1
D01849MS691V0100	SDS D01849 THOR Reagent, TR
D01842MS692V0100	SDS D01842 Enzyme Mix 1, E1
D01861MS693V0100	SDS D01861 Enzyme Mix 2, E2
D01718MS694V0100	SDS D01718 End Repair Enhancer, ERE
D01779MS695V0100	SDS D01779 Enzyme Mix 3, E3
D01711MS696V0100	SDS D01711 In Vitro Transcription Buffer, IVT
D01674MS430V0100	SDS D01674 Dithiothreitol, DTT
D00890MS697V0100	SDS D00890 Organic Solvent, OS
D01714MS698V0100	SDS D01714 Ribonucleotides (rNTPs), RN
D01875MS699V0100	SDS D01875 Enzyme Mix 4, E4
D01881MS700V0100	SDS D01881 Primer 2, P2
D01717MS701V0100	SDS D01717 Reverse Transcription Buffer, RT

Print information

Print date	29-Mar-2024
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Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01803
Product Name	Lysis Agent, LA
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (ask for poisons information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

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

RESPIRATORY SENSITATION – Category 1 (H334)

EYE IRRITATION – Category 2 (H319)

SKIN IRRITATION – Category 2 (H315)

STOT SE – Category 3 (H335)

2.2 Label elements

Hazard pictograms:



Signal word:

Danger

Hazard statements

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

H319 – Causes serious eye irritation

H315 – Causes skin irritation

H335 – May cause respiratory irritation

Precautionary statements

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 – Wear protective gloves, protective clothing and eye protection.

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

P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

2.3 Other hazards

This substance/mixture does not contain candidate substances of very high concern at a concentration ≥ 0.1 (Regulation (EC) No. 1907/2006).

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Hazardous Ingredients	Weight-%	Hazard Classification of Pure Ingredients According to EU 1272/2008 CLP
PROTEINASE K CAS-No.: 39450-01-6 EC-No.: 254-457-8	1 - 5	Resp. Sens. 1 (H334) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) STOT SE 3 (H335)

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	May cause allergic respiratory reaction. If breathing stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth respiration. Get immediate medical attention.
Following skin contact	Wash off immediately with soap and plenty of water. Remove contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Remove contact lenses, if present and easy to do. Rinse cautiously with water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
After ingestion	May produce an allergic reaction. DO NOT induce vomiting. Rinse mouth. Get immediate medical attention.
Self-protection for 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

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 immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.

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

5.2 Special hazards arising from the substance or mixture

Not known.

5.3 Precautions for fire-fighters

Standard procedure for chemical fires.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid contact with skin, eyes or clothing.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Use good laboratory procedures.
Always wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system. See section 12 for additional Ecological information.

6.3 Methods and materials 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

See section 8 for more information.
See section 13 for disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Use Personal Protective Equipment as required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep container tightly closed in a dry, cool and well-ventilated place. Store locked up.
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7.3 Specific end uses

For research use only. Not for use in diagnostic procedures.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Not available
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8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. Ensure adequate ventilation. Close the vial immediately after use.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.4
Kinematic viscosity	No data available
Solubility (water)	No data available
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

None known based on information supplied.

10.5 Incompatible materials

None known based on information supplied.

10.6 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

Skin corrosion/irritation	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes mild skin irritation.
Serious eye damage/irritation	Specific test data for the substance or mixture is not available.
Respiratory or skin sensitization	Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Specific test data for the substance or mixture is not available.
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration Hazard	Not classified

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.

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

Proteinase K 39450-01-6

Oral ATEmix	> 25200 mg/kg
Dermal ATEmix	> 20000 mg/kg
Inhalation ATEmix	> 99999 mg/m ³

SECTION 12. Ecological information

12.1 Toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	No information available.
12.6 Endocrine disrupting properties	No information available.
12.7 Other adverse effects	No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not empty into drains. Do not dispose of waste into sewer.
Contaminated packaging	Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN-Number or ID number	Not applicable
14.2 UN proper shipping name	Not Applicable
14.3 Transport hazard class(es)	Not Applicable
14.4 Packing group	Not Applicable
14.5 Environmental hazards	Not Applicable
14.6 Special precautions for users	Not Applicable
14.7 Maritime transport in bulk according to IMO instruments	Not Applicable

SECTION 15. Regulatory information

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

EU regulations

Substance subject to authorization per EC 1907/2006, Annex XIV	None.
Restricted substances under EC 1907/2006, Annex XVII	None.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Full text of H-Statements mentioned in this document

- H319 – Causes serious eye irritation
- H335 – May cause respiratory irritation
- H315 – Causes skin irritation
- H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

Indication of changes

Reason for revision	Regular review
Revision number	2
Revision date	25-Mar-2024
Changes from previous version	Updated in accordance with ANNEX VI of Regulation (EC) No 1272/2008 applying harmonised classification and labelling for certain hazardous substances

Key literature references and sources for data

- ECHA CHEM: <https://chem.echa.europa.eu/>
- eChemPortal: <https://www.echemportal.org/echemportal/>
- PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
- GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01855
Product Name	Molecular Biology Grade Water, H2O
Pure substance/Mixture	Pure substance
CAS-No.	7732-18-5

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

Relevant identified uses	For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec); 1 866 454 1212 (Saskatchewan);
France	+33 1 40 05 48 48 (Centre antipoison et de toxicovigilance de Paris)
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 30 274 88 88
United States of America	1 800 222 1222
Spain	+34 915 620 420
Sweden	112 (+46 10 456 6700 in less acute cases)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.1 Substances

Formula	H ₂ O
Molecular weight	18,02 g/mol
CAS-No.	7732-18-5
EC-No.	231-791-2

3.2 Mixtures

Not Applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Following skin contact	Rinse skin with water. Immediate medical attention is not required.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not Applicable

4.3 Indication of immediate medical attention and special treatment needed

None.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Precautions for fire-fighters

Standard procedure for chemical fires.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation
Use good laboratory procedures.
Always wear recommended Personal Protective Equipment
See section 8 for more information

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See section 8 for more information.
See section 13 for disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Storage class Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end uses

For research use only. Not for use in diagnostic procedures.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values.
Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.

Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Color	colorless
Odor	No data available
Odor threshold	No data available
Molecular Weight	No data available
pH	6,0 – 8,0 at 25 °C
Melting/freezing point	0,0 °C
Boiling point and boiling range	100 °C
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1,000 g/cm ³ at 3,98 °C
Specific gravity	No data available
Water solubility	No data available
Partition coefficient: noctanol/water	Log Pow: -0,467 – Bioaccumulation is not expected.
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	Not classified.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration Hazard	Not classified

11.2 Information on other hazards

No information available.

SECTION 12. Ecological information

12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods**Product**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products.

SECTION 14. Transport information

14.1 UN-Number

Not Applicable

14.2 UN proper shipping name

Not Applicable

14.3 Transport hazard class(es)

Not Applicable

14.4 Packing group

Not Applicable

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for users

Not Applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Substance subject to authorization per REACH Annex XIV**

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	14-Jul-2023
Changes from previous version	Not Applicable

Key literature references and sources for data

ECHA: <https://echa.europa.eu/>
 GESTIS: <https://limitvalue.ifa.dguv.de/>
 PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
 eChemPortal: <https://www.echemportal.org/echemportal/>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.
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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code D01699
Product Name Nucleotides (dNTPs), NT
Pure substance/Mixture Mixture

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

Relevant identified uses For Research Use Only. Not for use in diagnostic procedures.
Uses advised against Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company Lexogen GmbH
Campus Vienna Biocenter 5
1030 Vienna
Austria
Telephone +43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
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Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec); 1 866 454 1212 (Saskatchewan);
France	+33 1 40 05 48 48 (Centre antipoison et de toxicovigilance de Paris)
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 30 274 88 88
United States of America	1 800 222 1222
Spain	+34 915 620 420
Sweden	112 (+46 10 456 6700 in less acute cases)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 hazardous to health. We recommend handling all chemicals with caution.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Following skin contact	Rinse skin with water. Immediate medical attention is not required.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not Applicable

4.3 Indication of immediate medical attention and special treatment needed

None.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

Not known

5.3 Precautions for fire-fighters

Standard procedure for chemical fires.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation

Use good laboratory procedures.

Always wear recommended Personal Protective Equipment

See section 8 for more information

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See section 8 for more information.

See section 13 for disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

For research use only. Not for use in diagnostic procedures.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Color	colorless
Odor	No data available
Odor threshold	No data available
Molecular Weight	No data available
pH	No data available
Melting/freezing point	No data available
Boiling point and boiling range	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Specific gravity	No data available
Water solubility	fully miscible
Partition coefficient: octanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration Hazard	Not classified

11.2 Information on other hazards

No information available.

SECTION 12. Ecological information

12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its

solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN-Number

Not Applicable

14.2 UN proper shipping name

Not Applicable

14.3 Transport hazard class(es)

Not Applicable

14.4 Packing group

Not Applicable

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for users

Not Applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15. Regulatory information

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	14-Jul-2023
Changes from previous version	Not Applicable

Key literature references and sources for data

ECHA: <https://echa.europa.eu/>
 GESTIS: <https://limitvalue.ifa.dguv.de/>
 PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
 eChemPortal: <https://www.echemportal.org/echemportal/>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01709
Product Name	RNA Amplification Primer, P1
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Following skin contact	Rinse skin with water. Immediate medical attention is not required.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not Applicable

4.3 Indication of immediate medical attention and special treatment needed

None.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

Not known

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See section 8 for more information on safe handling.
See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

Not available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its

solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not Applicable

14.2 UN proper shipping name

Not Applicable

14.3 Transport hazard class(es)

Not Applicable

14.4 Packing group

Not Applicable

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for users

Not Applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15. Regulatory information

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not Applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01849
Product Name	THOR Reagent, TR
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.9
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity. ATEmix (oral) 99,999.00 mg/kg ATEmix (dermal) 99,999.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm ATEmix (inhalation-vapour) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01842
Product Name	Enzyme Mix 1, E1
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
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France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

Hazardous Ingredients	Weight-%	Hazard Classification of Pure Ingredients
		According to EU 1272/2008 CLP/GHS
GLYCEROL CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	40 - 70	Not classified

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1$ % (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Always wear recommended Personal Protective Equipment.
Use good laboratory procedures.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits

Glycerol CAS-No 56-81-5

US - OSHA Exp. limit not in effect: 5 mg/m³ TWA (respirable dust); 15 mg/m³ TWA (inhalable dust),

Canada (Ontario) 10 mg/m³

Canada (Québec)	10 mg/m ³
Australia	10 mg/m ³ (inhalable fraction, no asbestos, < 1% crystalline silica)
Czech Rep.	10 mg/m ³ TWA, 15 mg/m ³ Ceiling
Finland	20 mg/m ³
France	10 mg/m ³
Germany (DFG)	200 mg/m ³ TWA (inhalable fraction), exp. factor 2; 400 mg/m ³ STEL
Ireland	10 mg/m ³
Poland	10 mg/m ³
Singapore	10 mg/m ³
South Korea	10 mg/m ³
Spain	10 mg/m ³
Switzerland	50 mg/m ³ TWA, 100 mg/m ³ STEL
United Kingdom	10 mg/m ³ TWA (mist)

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	No data available
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available

Kinematic viscosity	No data available
Solubility (water)	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	Not classified <u>Glycerol CAS-No 56-81-5</u> Oral LD50 = 12.600 mg/kg (Rat) Dermal LD50 > 10.000 mg/kg (Rabbit) Inhalation LC50 > 570 mg/m ³ (Rat)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Glycerol CAS-No 56-81-5

Toxicity to algae	No data available
Toxicity to daphnia and other aquatic invertebrates	Daphnia magna EC50>500 mg/L (24 h)
Toxicity to fish	No data available
Microtox Data	No data available
log Pow	LogPow-1.76

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

German Water hazard classes (Wassergefährdungsklassen)

GLYCEROL	Weight-%	Water hazard class (WGK)
CAS-No.: 56-81-5	50 - 70	Hazard class 1 – slightly hazardous to water
EC-No.: 200-289-5		

Other International Inventories

Glycerol CAS-No 56-81-5

EINECS (European Union)	Listed
ELINCS (European List of Notified Chemical Substances)	-
ENCS (Japan)	Listed
PICCS (Philippines)	Listed
AICS (Australia)	Listed
South Korea (KECL)	Listed
Canada (DSL)	Listed
NDSL	-

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01861
Product Name	Enzyme Mix 2, E2
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
------------------------	---

8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
-----------------------------	--

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.

Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.
------------------------	--

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.9
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity. ATEmix (oral) 25,200.00 mg/kg ATEmix (dermal) 20,000.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm ATEmix (inhalation-vapour) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01718
Product Name	End Repair Enhancer, ERE
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media

No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
------------------------	---

8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
-----------------------------	--

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.9
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity. ATEmix (oral) 25,200.00 mg/kg ATEmix (dermal) 20,000.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm ATEmix (inhalation-vapour) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01779
Product Name	Enzyme Mix 3, E3
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
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France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media

No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
------------------------	---

8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
-----------------------------	--

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity. ATEmix (oral) 25,200.00 mg/kg ATEmix (dermal) 20,000.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm ATEmix (inhalation-vapour) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01711
Product Name	In Vitro Transcription Buffer, IVT
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
------------------------	---

8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
-----------------------------	--

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.

Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.
------------------------	--

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	28-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code D01674
Product Name Dithiothreitol, DTT
Pure substance/Mixture Mixture

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

Relevant identified uses For Research Use Only. Not for use in diagnostic procedures.
Uses advised against Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company Lexogen GmbH
Campus Vienna Biocenter 5
1030 Vienna
Austria
Telephone +43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec); 1 866 454 1212 (Saskatchewan);
France	+33 1 40 05 48 48 (Centre antipoison et de toxicovigilance de Paris)
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 30 274 88 88
United States of America	1 800 222 1222
Spain	+34 915 620 420
Sweden	112 (+46 10 456 6700 in less acute cases)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

We recommend handling all chemicals with caution.

3.2 Mixtures

Hazardous Ingredients	Weight-%	Hazard Classification of Pure Ingredients
		According to EU 1272/2008 CLP/GHS
(R*,R*)-1,4-dimercaptobutane-2,3-diol CAS-No.: 3483-12-3 EC-No.: 222-468-7 <u>Synonyms:</u> 1,4-Dithiothreitol, DTT	1 - 10	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Resp. tract) Aquatic Chronic 3; H412

See Section 16 for the full text of the H-Statements mentioned in this section.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.
Following skin contact	Wash off with soap and plenty of water. Consult a physician.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Hydrogen sulfide gas

5.3 Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Avoid breathing vapors, mist or gas.
Use good laboratory procedures.
Always wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

Prevent product from entering drains.
Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See section 8 for more information.
See section 13 for disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required.
Keep in suitable, closed containers.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

For research use only. Not for use in diagnostic procedures.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	No data available
Engineering Measures	Ensure adequate ventilation.

8.2 Exposure controls

Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Eye protection	Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU) or NIOSH (US).
Hand protection	Wear suitable gloves. Inspect gloves prior to use. Use proper glove removal technique to avoid skin contact with this product. Gloves material: Nitrile rubber, layer thickness $\geq 0,11$ mm. Wash and dry hands.
Skin protection	Wear suitable protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Color	clear
Odor	unpleasant
Odor threshold	No data available
Molecular Weight	No data available
pH	No data available
Melting/freezing point	No data available
Boiling point and boiling range	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available

Relative density	No data available
Specific gravity	No data available
Water solubility	miscible
Partition coefficient: noctanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Forms oxidized version when exposed to oxygenic environment.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Direct sunlight, elevated temperatures, repeated freeze-thaw cycles.

10.5 Incompatible materials

Bases, Oxidizing agents, Reducing agents, Alkali metals.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon oxides, Sulphur oxides, Hydrogen sulfide gas.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

(R*,R*)-1,4-dimercaptobutane-2,3-diol CAS-No.: 3483-12-3	<u>Oral toxicity</u> : LD50 300-2000 mg/kg (rat)
	<u>Skin corrosion/irritation</u> : Adverse effect observed (irritating)
	<u>Serious eye damage/irritation</u> : Adverse effect observed (irreversible damage)
	<u>Respiratory or skin sensation</u> : No adverse effect observed (not sensitizing)
	<u>Carcinogenicity</u> : IARC: No component of this product present at levels greater than or equal to 0.1/ is identified as probable, possible or confirmed human carcinogen by IARC.

Primary Routes of Exposure

Eye contact, ingestion, inhalation, and skin contact.

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified

Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration Hazard	Not classified

SECTION 12. Ecological information

12.1 Ecotoxicity

Hazardous to freshwater invertebrate: LC50 27 AI mg/L (*Daphnia magna*)
Hazardous to the Aquatic Environment.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Do not empty into drains.

Do not dispose of waste into sewer.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN-Number

Not Applicable

14.2 UN proper shipping name

Not Applicable

14.3 Transport hazard class(es)

Not Applicable

14.4 Packing group

Not Applicable

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for users

Not Applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15. Regulatory information

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

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Jun-2022
Changes from previous version	Not Applicable

Key literature references and sources for data

ECHA: <https://echa.europa.eu/>

GESTIS: <https://limitvalue.ifa.dguv.de/>

PubChem: <https://pubchem.ncbi.nlm.nih.gov/>

eChemPortal: <https://www.echemportal.org/echemportal/>

NIH ChemIDplus: <https://chem.nlm.nih.gov/chemidplus>

Relevant H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held

liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.
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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D00890
Product Name	Organic Solvent, OS
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

Rapidly absorbed through skin.

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 hazardous to health. We recommend handling all chemicals with caution.

Hazardous Ingredients	Weight-%	Hazard Classification of Pure Ingredients
		According to EU 1272/2008 CLP/GHS
Dimethyl sulfoxide CAS-No.: 67-68-5 EC-No.: 200-664-3 REACH registration number: 01-2119431362-50-XXXX	70 - 100	Not classified

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1$ % (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth. Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

Sulfur oxides.

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.

Do not breathe vapours, aerosols.

Keep away from heat and sources of ignition.

Always wear recommended Personal Protective Equipment.

Use good laboratory procedures.

See section 8 for more information.

6.2 Environmental precautions

Do not let product enter drains.

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

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

Cover drains.

Methods for cleaning up Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Combustible liquid.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Not available

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear
Odour	odourless
Melting/freezing point	16 – 19 °C
Boiling point	189 °C
Flammability	No data available
Upper explosive limits	28,5 % (V)
Lower explosive limits	2,6 % (V)
Flash point	87 °C – closed cup – ASTM D93
Autoignition temperature	300 – 302 °C at 1.013 hPa
Decomposition temperature	> 190 °C
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	fully miscible

Partition coefficient: n-octanol/water	log Pow: -1,35 at 20 °C – Bioaccumulation not expected
Vapour pressure	0,55 hPa at 20 °C
Absolute density	1,1 g/mL
Relative density	No data available
Relative vapour density	2,70 – (Air = 1.0)
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

Risk of explosion with:

acetylidene, organic halides, perchlorates, acid chlorides, nonmetallic halides, iron(III) compounds, nitrates, fluorides, chlorates, hydrides, perchloric acid, oxides of phosphorus, nitric acid, silver compounds, silanes, acid halides.

Exothermic reaction with:

boron compounds, potassium, sodium, strong oxidizing agents, phosphorus halides, strong reducing agents, acid chlorides, strong acids, silver salt, nitrogen dioxide.

Risk of ignition or formation of inflammable gases or vapours with:

potassium permanganate.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	Not classified <u>Dimethyl sulfoxide CAS-No. 67-68-5</u> <ul style="list-style-type: none"> ▪ Oral LD50 28.300 mg/kg (Rat) ▪ Dermal LD50 40.000 mg/kg (Rat)
Skin corrosion/irritation	Not classified <u>Dimethyl sulfoxide CAS-No. 67-68-5</u> <ul style="list-style-type: none"> ▪ Skin – Rabbit: slight irritation 4 h

Serious eye damage/irritation	Not classified <u>Dimethyl sulfoxide CAS-No. 67-68-5</u> ▪ Eyes – Rabbit: slight irritation 24 h
Respiratory or skin sensitization	Not classified <u>Dimethyl sulfoxide CAS-No. 67-68-5</u> ▪ Maximization Test – Guinea pig: negative ▪ Local lymph node assay – Mouse: negative
Germ cell mutagenicity	Not classified <u>Dimethyl sulfoxide CAS-No. 67-68-5</u> ▪ Ames test – <i>Salmonella t.</i> , with and without metabolic activation: negative ▪ Sister chromatid exchange assay, Chinese hamster ovary cells, with and without metabolic activation: negative ▪ Mutagenicity (mammal cell test): chromosome aberration, Chinese hamster ovary cells, with and without metabolic activation: negative ▪ Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat, intraperitoneal: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT – single exposure	No data available
STOT – repeated exposure	No data available
Aspiration hazard	No data available

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

Glycerol CAS-No 56-81-5

Repeated dose toxicity – Rat – male and female – Oral – 18 Months – NOEL (no observed adverse effect level) – 3.300 mg/kg – LOEL (Lowest observed adverse effect level) – 9.900 mg/kg.

Repeated dose toxicity – Monkey – male and female – Dermal – 18 Months – NOEL (No observed adverse effect level) - \geq 8.910 mg/kg – LOEL (Lowest observed adverse effect level) – 990 mg/kg.

Exposure to large amounts can cause: redness of skin, itching, burning, sedation, headache, nausea, dizziness.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Dimethyl sulfoxide CAS-No. 67-68-5

- **Toxicity to algae** Static test ErC50 – *Pseudokirchneriella s.* (green algae) – 17.000 mg/L (72 h)
- **Toxicity to daphnia and other aquatic invertebrates** Static test EC50 – *Daphnia magna* (water flea) – 24.600 mg/L (48 h)
- **Toxicity to fish** Static test LC50 – *Danio rerio* (zebra fish) - > 25.000 mg/L (96 h)
- **Toxicity to bacteria** EC50 – activated sludge – 10 – 100 mg/L (30 min)

12.2 Persistence and degradability

Dimethyl sulfoxide CAS-No. 67-68-5

- **Biodegradability** Aerobic – Exposure time 28 d: 31 % - Not readily biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

German Water hazard classes (Wassergefährdungsklassen)

GLYCEROL	Weight-%	Water hazard class (WGK)
CAS-No.: 56-81-5	50 - 70	Hazard class 1 – slightly hazardous to water
EC-No.: 200-289-5		

Other International Inventories

Glycerol CAS-No 56-81-5

EINECS (European Union)	Listed
ELINCS (European List of Notified Chemical Substances)	-
ENCS (Japan)	Listed
PICCS (Philippines)	Listed
AICS (Australia)	Listed
South Korea (KECL)	Listed
Canada (DSL)	Listed
NDSL	-

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01714
Product Name	Ribonucleotides (rNTPs), RN
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

Contains 99 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
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8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.

Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.
------------------------	--

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	mild
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.9
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity. ATEmix (oral) 99,999.00 mg/kg ATEmix (dermal) 99,999.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm ATEmix (inhalation-vapour) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Contains 99 % of components with unknown hazards to the aquatic environment.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01875
Product Name	Enzyme Mix 4, E4
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

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Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

Hazardous Ingredients	Weight-%	Hazard Classification of Pure Ingredients
		According to EU 1272/2008 CLP/GHS
GLYCEROL CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	40 - 70	Not classified

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1$ % (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Always wear recommended Personal Protective Equipment.
Use good laboratory procedures.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits

Glycerol CAS-No 56-81-5

US - OSHA Exp. limit not in effect: 5 mg/m³ TWA (respirable dust); 15 mg/m³ TWA (inhalable dust),
Canada (Ontario) 10 mg/m³

Canada (Québec)	10 mg/m ³
Australia	10 mg/m ³ (inhalable fraction, no asbestos, < 1% crystalline silica)
Czech Rep.	10 mg/m ³ TWA, 15 mg/m ³ Ceiling
Finland	20 mg/m ³
France	10 mg/m ³
Germany (DFG)	200 mg/m ³ TWA (inhalable fraction), exp. factor 2; 400 mg/m ³ STEL
Ireland	10 mg/m ³
Poland	10 mg/m ³
Singapore	10 mg/m ³
South Korea	10 mg/m ³
Spain	10 mg/m ³
Switzerland	50 mg/m ³ TWA, 100 mg/m ³ STEL
United Kingdom	10 mg/m ³ TWA (mist)

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	No data available
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available

Kinematic viscosity	No data available
Solubility (water)	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	Not classified <u>Glycerol CAS-No 56-81-5</u> Oral LD50 = 12.600 mg/kg (Rat) Dermal LD50 > 10.000 mg/kg (Rabbit) Inhalation LC50 > 570 mg/m ³ (Rat)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Glycerol CAS-No 56-81-5

Toxicity to algae	No data available
Toxicity to daphnia and other aquatic invertebrates	Daphnia magna EC50>500 mg/L (24 h)
Toxicity to fish	No data available
Microtox Data	No data available
log Pow	LogPow-1.76

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

German Water hazard classes (Wassergefährdungsklassen)

GLYCEROL	Weight-%	Water hazard class (WGK)
CAS-No.: 56-81-5	50 - 70	Hazard class 1 – slightly hazardous to water
EC-No.: 200-289-5		

Other International Inventories

Glycerol CAS-No 56-81-5

EINECS (European Union)	Listed
ELINCS (European List of Notified Chemical Substances)	-
ENCS (Japan)	Listed
PICCS (Philippines)	Listed
AICS (Australia)	Listed
South Korea (KECL)	Listed
Canada (DSL)	Listed
NDSL	-

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. All substances and mixtures may present unknown hazards and should be used with caution. Lexogen shall not be held liable for any damages or losses resulting from improper handling or from contact with the above product. Please see our terms and conditions on our website www.lexogen.com.

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01881
Product Name	Primer 2, P2
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

Austria	+43 1 406 43 43
Australia	131 126
Canada	1 800 332 1414 (Alberta, NW Territories); 1 800 567 8911 (British Columbia); 1 800 268 9017 (Ontario); 1 800 463 5060 (Quebec);
France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Following skin contact	Rinse skin with water. Immediate medical attention is not required.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not Applicable

4.3 Indication of immediate medical attention and special treatment needed

None.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Foam. Dry chemical.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

Not known

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See section 8 for more information on safe handling.
See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

Not available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its

solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not Applicable

14.2 UN proper shipping name

Not Applicable

14.3 Transport hazard class(es)

Not Applicable

14.4 Packing group

Not Applicable

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for users

Not Applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15. Regulatory information

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	27-Mar-2024
Changes from previous version	Not Applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

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End of safety data sheet.

Safety Data Sheet

According to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Code	D01717
Product Name	Reverse Transcription Buffer, RT
Pure substance/Mixture	Mixture
UFI	Not available

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

Relevant identified uses	Laboratory chemical. For Research Use Only. Not for use in diagnostic procedures.
Uses advised against	Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)
Email Address	support@lexogen.com

1.4 Emergency telephone number

Local Poison Emergency Center Contact Numbers

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France	+33 (0)1 45 42 59 59
Germany	+49 30 192 40 (Berlin, Institute of Toxicology)
Great Britain	0344 892 0111
Italy	+39 02 6610 1029 (Poison Control Centre Milano)
Netherlands, The	+31 (0)88 755 8000
United States of America	1 800 222 1222
Spain	+34 91 562 04 20
Sweden	112 (Ask for Poisons Information)
Switzerland	145 (+41 44 251 66 66 non-urgent inquiry)
South Korea	1855-2221 (The Seoul Poison Center, Help Call)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Unknown aquatic toxicity

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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 hazardous to health. We recommend handling all chemicals with caution.

This product does not contain candidate substances of very high concern (SVHC) at a concentration $\geq 0,1\%$ (Regulation (EC) No. 1907/2006, Article 59).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use. Remove to fresh air.
Following skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
After eye contact	Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
After ingestion	Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media

No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.
Use good laboratory procedures.
Wear recommended Personal Protective Equipment.
See section 8 for more information.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material, take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

See section 8 for more information on safe handling. See section 13 for disposal information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

No special handling advice is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3 Specific end uses

No information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Contains no substances with occupational exposure limit values.
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8.2 Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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Personal protective equipment

Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin protection	Wear suitable protective clothing.

Hand protection	Wear suitable gloves. Gloves material: Compatible chemical-resistant gloves.
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General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	No data available
Melting/freezing point	No data available
Boiling point	No data available
Flammability	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility (water)	fully miscible
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Absolute density	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

None under conditions of normal use.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

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

Acute toxicity	There is no evidence available indicating acute toxicity.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

The following values are calculated based on Regulation (EC) 1272/2008, chapter 3.1

11.2 Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Contaminated packaging

Dispose of as unused products. Do not reuse empty containers.

SECTION 14. Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15. Regulatory information

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

European Union

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

Substance subject to authorization per REACH Annex XIV

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Persistent Organic Pollutants

Not applicable.

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

Not applicable.

Other International Inventories

No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Indication of changes

Reason for revision	Initial creation in accordance with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.
Revision number	1
Revision date	28-Mar-2024
Changes from previous version	Not applicable

Key literature references and sources for data

ECHA CHEM: <https://chem.echa.europa.eu/>
eChemPortal: <https://www.echemportal.org/echemportal/>
PubChem: <https://pubchem.ncbi.nlm.nih.gov/>
GESTIS: <https://ilv.ifa.dguv.de/substances>

Further information

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End of safety data sheet.