

# Safety Data Sheets for M11296

## Product identifiers

Product Code	M11296
Product Name	QuantSeq 3' mRNA-Seq FWD Library Generation Module

## 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	<a href="mailto:support@lexogen.com">support@lexogen.com</a>

## Attached documents

D01618MS502V0100	SDS D01618 First Strand cDNA Synthesis Mix 1, FS1
D00409MS503V0100	SDS D00409 First Strand cDNA Synthesis Mix 2, FS2
D00410MS504V0100	SDS D00410 Enzyme Mix 1, E1
D00498MS505V0100	SDS D00498 RNA Removal Solution, RS
D00593MS506V0100	SDS D00593 Second Strand Synthesis Mix 1, SS1
D00837MS507V0100	SDS D00837 Second Strand Synthesis Mix 2, SS2
D00415MS508V0100	SDS D00415 Enzyme Mix 2, E2

## Print information

Print date	07-Oct-2022
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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 D01618  
Product Name First Strand cDNA Synthesis Mix 1, FS1  
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](mailto: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

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.

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## SECTION 6. Accidental release measures

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### 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.

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## SECTION 7. Handling and storage

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### 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.

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## SECTION 8. Exposure controls/personal protection

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### 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**

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

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## SECTION 9. Physical and chemical properties

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### 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	No data available
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.

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## SECTION 10. Stability and reactivity

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### 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.

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## SECTION 11. Toxicological information

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### 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.

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## SECTION 12. Ecological information

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### 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.

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**SECTION 13. Disposal considerations**

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**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.

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**SECTION 14. Transport information**

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**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

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**SECTION 15. Regulatory information**

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**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.

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## SECTION 16. Other information

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### 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-Sep-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>

### 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](http://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 D00409  
Product Name First Strand cDNA Synthesis Mix 2, FS2  
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)  
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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 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

		Hazard Classification of Pure Ingredients
Hazardous Ingredients	Weight-%	According to EU 1272/2008 CLP/GHS
<b>(R*,R*)-1,4-dimercaptobutane-2,3-diol</b> CAS-No.: 3483-12-3 EC-No.: 222-468-7  <u>Synonyms:</u> 1,4-Dithiothreitol, DTT	0,1 - 1	<b>Acute Tox. 4;</b> H302 <b>Skin Irrit. 2;</b> H315 <b>Eye Irrit. 2;</b> H319 <b>STOT SE 3;</b> H335 (Resp. tract) <b>Aquatic Chronic 3;</b> 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

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Following inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.
<b>Following skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>After eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>After ingestion</b>	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.

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**SECTION 5.      Firefighting measures**

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**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.

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**SECTION 6.      Accidental release measures**

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**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.

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**SECTION 7.      Handling and storage**

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**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	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	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.
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#### 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

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## SECTION 12. Ecological information

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### 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.

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## SECTION 13. Disposal considerations

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### 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.

Do not empty into drains.

Do not dispose of waste into sewer.

#### Contaminated packaging

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

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## SECTION 14. Transport information

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### 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

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### SECTION 15. Regulatory information

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#### 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.

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### SECTION 16. Other information

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#### 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-Sep-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](http://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 D00410  
Product Name Enzyme Mix 1, E1  
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](mailto: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

No information available.

## SECTION 3. Composition/information on ingredients

We recommend handling all chemicals with caution.

### 3.1 Substances

Not Applicable

### 3.2 Mixtures

Hazardous Ingredients		Hazard Classification of Pure Ingredients According to EU 1272/2008 CLP/GHS
<b>GLYCEROL</b> CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	Weight-%  50 - 70	Not classified

## 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	Move to fresh air. If symptoms persist, call a physician.
Following skin contact	Wash off immediately with soap and plenty of water. Remove contaminated clothes and shoes. 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 several minutes. Consult a physician.
After ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Rinse mouth with water.

### 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.

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## **SECTION 5.      Firefighting measures**

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### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Water spray. Carbon dioxide. Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

No information available.

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

Not information available.

### **5.3 Precautions for fire-fighters**

Standard procedure for chemical fires.

### **5.4 Further information**

No information available.

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## **SECTION 6.      Accidental release measures**

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

Ensure adequate ventilation.

Use good laboratory procedures.

Use Personal Protection Equipment.

Avoid breathing vapors.

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 more information.

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## **SECTION 7.      Handling and storage**

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

#### **Advice on safe handling**

Ensure adequate ventilation.

Use Personal Protective Equipment as required.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

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

#### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

### **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

##### Glycerol CAS-No 56-81-5

US - OSHA	Exp. limit not in effect: 5 mg/m <sup>3</sup> TWA (respirable dust); 15 mg/m <sup>3</sup> TWA (inhale dust),
Canada (Ontario)	10 mg/m <sup>3</sup>
Canada (Québec)	10 mg/m <sup>3</sup>
Australia	10 mg/m <sup>3</sup> (inhale fraction, no asbestos, < 1% crystalline silica)
Czech Rep.	10 mg/m <sup>3</sup> TWA, 15 mg/m <sup>3</sup> Ceiling
Finland	20 mg/m <sup>3</sup>
France	10 mg/m <sup>3</sup>
Germany (DFG)	200 mg/m <sup>3</sup> TWA (inhale fraction), exp. factor 2; 400 mg/m <sup>3</sup> STEL
Ireland	10 mg/m <sup>3</sup>
Poland	10 mg/m <sup>3</sup>
Singapore	10 mg/m <sup>3</sup>
South Korea	10 mg/m <sup>3</sup>
Spain	10 mg/m <sup>3</sup>
Switzerland	50 mg/m <sup>3</sup> TWA, 100 mg/m <sup>3</sup> STEL
United Kingdom	10 mg/m <sup>3</sup> TWA (mist)

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### 8.2 Exposure controls

#### Personal protective equipment

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

<b>Appearance</b>	liquid
<b>Color</b>	colorless
<b>Odor</b>	odorless
<b>Odor threshold</b>	No information available
<b>Molecular Weight</b>	No data available
<b>pH</b>	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	No data available
Partition coefficient: noctanol/water	No data available
Viscosity	No data available
Explosive properties	No information available
Oxidizing properties	No information available

## 9.2 Other safety 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

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.

### Information on toxicological effects

Glycerol CAS-No 56-81-5

Oral LD50	= 12600 mg/kg Oral (Rat)
Dermal LD50	> 10000 mg/kg (Rabbit)
Inhalation LC50	> 570 mg/m <sup>3</sup> (Rat)

## SECTION 12. Ecological information

### 12.1 Ecotoxicity

Hazardous to the Aquatic Environment.

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 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**

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**

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

#### **Substance of Very High Concern**

None.

#### **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.

#### **Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.**

None.

**German Water hazard classes (Wassergefährdungsklassen)**

GLYCEROL	Weight-%	Water hazard class (WGK)
CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	50 - 70	Hazard class 1 – slightly hazardous to water

**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.

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**SECTION 16. Other information**


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**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-Sep-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>

**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](http://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 D00498  
Product Name RNA Removal Solution, RS  
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](mailto: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

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**

<b>Respiratory protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Hand protection</b>	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	No data available
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 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.

---

**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	28-Sep-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>

### 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](http://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 Second Strand Synthesis Mix 1, SS1  
Product Name D00593  
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](mailto: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

Contains a known or suspected endocrine disruptor

## 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

<b>Respiratory protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Hand protection</b>	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	No data available
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 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**

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	28-Sep-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>

### 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](http://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 D00837  
Product Name Second Strand Synthesis Mix 2, SS2  
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](mailto: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

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**

<b>Respiratory protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Hand protection</b>	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	No data available
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.

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## 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.

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**SECTION 13. Disposal considerations**

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**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.

---

**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.

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## SECTION 16. Other information

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### 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-Sep-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>

### 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](http://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 D00415  
Product Name Enzyme Mix 2, E2  
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  
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Austria  
Telephone +43 1 345 1212 (09:00am – 05:00pm CET, Monday-Friday)  
Email Address [support@lexogen.com](mailto:support@lexogen.com)

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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

No information available.

## SECTION 3. Composition/information on ingredients

We recommend handling all chemicals with caution.

### 3.1 Substances

Not Applicable

### 3.2 Mixtures

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

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Following inhalation</b>	Remove to fresh air.
<b>Following skin contact</b>	Rinse skin with water. In the case of skin irritation or allergic reactions see a physician.
<b>After eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Consult a physician.
<b>After ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. 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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

No information available.

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

Not information available.

### **5.3 Precautions for fire-fighters**

Standard procedure for chemical fires.

### **5.4 Further information**

No information available.

---

## **SECTION 6.      Accidental release measures**

---

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

Ensure adequate ventilation.

Use good laboratory procedures.

Use Personal Protection 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 more information.

---

## **SECTION 7.      Handling and storage**

---

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

#### **Advice on safe handling**

Ensure adequate ventilation.

Use Personal Protective Equipment as required.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

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

#### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

### **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

##### Glycerol CAS-No 56-81-5

US - OSHA	Exp. limit not in effect: 5 mg/m <sup>3</sup> TWA (respirable dust); 15 mg/m <sup>3</sup> TWA (inhalable dust),
Canada (Ontario)	10 mg/m <sup>3</sup>
Canada (Québec)	10 mg/m <sup>3</sup>
Australia	10 mg/m <sup>3</sup> (inhalable fraction, no asbestos, < 1% crystalline silica)
Czech Rep.	10 mg/m <sup>3</sup> TWA, 15 mg/m <sup>3</sup> Ceiling
Finland	20 mg/m <sup>3</sup>
France	10 mg/m <sup>3</sup>
Germany (DFG)	200 mg/m <sup>3</sup> TWA (inhalable fraction), exp. factor 2; 400 mg/m <sup>3</sup> STEL
Ireland	10 mg/m <sup>3</sup>
Poland	10 mg/m <sup>3</sup>
Singapore	10 mg/m <sup>3</sup>
South Korea	10 mg/m <sup>3</sup>
Spain	10 mg/m <sup>3</sup>
Switzerland	50 mg/m <sup>3</sup> TWA, 100 mg/m <sup>3</sup> STEL
United Kingdom	10 mg/m <sup>3</sup> TWA (mist)

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### 8.2 Exposure controls

#### Personal protective equipment

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

<b>Appearance</b>	liquid
<b>Color</b>	colorless
<b>Odor</b>	mild
<b>Odor threshold</b>	No information available
<b>Molecular Weight</b>	No data available
<b>pH</b>	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	No data available
Partition coefficient: octanol/water	No data available
Viscosity	No data available
Explosive properties	No information available
Oxidizing properties	No information available

## 9.2 Other safety 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

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.

### Information on toxicological effects

Glycerol CAS-No 56-81-5

Oral LD50 = 12600 mg/kg Oral (Rat)

Dermal LD50 > 10000 mg/kg (Rabbit)

Inhalation LC50 > 570 mg/m<sup>3</sup> (Rat)

## SECTION 12. Ecological information

### 12.1 Ecotoxicity

Hazardous to the Aquatic Environment.

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 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**

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### **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 of Very High Concern**

None.

#### **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.

#### **Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.**

None.

**German Water hazard classes (Wassergefährdungsklassen)**

GLYCEROL	Weight-%	Water hazard class (WGK)
CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	40 - 70	Hazard class 1 – slightly hazardous to water

**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	28-Sep-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>

**Further information**

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**End of safety data sheet.**