

Safety Data Sheets for M16996

Product identifiers

Product Code	M16996
Product Name	CORALL RNA-Seq V2 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	support@lexogen.com

Attached documents

D01885MS425V0100	SDS for D01885 Reverse Transcription Mix, RTM
D00946MS426V0100	SDS for D00946 Reverse Transcription Mix Long, RTL
D01690MS427V0100	SDS for D01690 Displacement Stop Primer, DSP
D01678MS428V0100	SDS for D01678 Enzyme Mix 1, E1
D01680MS429V0100	SDS for D01680 Ligation Mix, LM
D01674MS430V0100	SDS for D01674 Dithiothreitol, DTT
D01681MS431V0100	SDS for D01681 Linker Oligo, LO
D01682MS432V0100	SDS for D01682 Enzyme Mix 2, E2
D01689MS433V0100	SDS for D01689 Bead Diluent, BD

Print information

Print date	28-Jun-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	D01885
Product Name	Reverse Transcription Mix, RTM
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

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	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	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 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 container.

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	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>

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.
 Copyright (2022); Lexogen GmbH. Copies may be made for internal use only.

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 D00946
Product Name Reverse Transcription Mix Long, RTL
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

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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

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	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>

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 D01690
Product Name Displacement Stop Primer, DSP
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

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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
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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	No data available
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

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 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	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>

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 D01678
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

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

We recommend handling all chemicals with caution.

3.1 Substances

Not Applicable

3.2 Mixtures

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.
POLY(OXY-1,2-ETHANEDIYL)- α-[4-(1,1,3,3-TETRAMETHYL BUTYL)PHENYL]-ω-HYDROXY CAS-No.: 9002-93-1 EC-No.: 618-344-0	< 0.9	Acute Tox 4, H302 Eye Dam. 1, H318 Chronic Aquatic 2, H411

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

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.

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 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

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/m ³
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)

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

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

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: 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

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 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/m³ (Rat)

Poly(oxy-1,2-ethanediyl)- α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy CAS-No 9002-93-1

Oral LD50 = 1800 mg/kg (Rat) = 4190 mg/kg (Rat) = 1700 mg/kg (Rat)

Dermal LD50 No data available

Inhalation LC50 No data available

Principal Routes of Exposure

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensation Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – repeated exposure	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive Toxicity	Data are conclusive but insufficient for classification
Aspiration Hazard	Data are conclusive but insufficient for classification

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

Poly(oxy-1,2-ethanediyl)- α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy CAS-No 9002-93-1

Toxicity to algae	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to fish	No data available
Microtox Data	No data available
Log Pow	No data available

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

Contains a known or suspected endocrine disruptor.

Poly(oxy-1,2-ethanediyl)- α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy CAS-No 9002-93-1

EU – Endocrine Disrupters Candidate List Group III Chemical

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.

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

Substance of Very High Concern

POLY(OXY-1,2-ETHANEDIYL)- α -[4-(1,1,3,3-TETRAMETHYL BUTYL)PHENYL]- ω -HYDROXY	Weight-%	EU – REACH (1907/2006) – Article 59(1) – Candidate List of Substances for Eventual Inclusion in Annex XIV
CAS-No.: 9002-93-1 EC-No.: 618-344-0	< 0.9	Reason for inclusion Endocrine disrupting properties, Article 57f - environment

Substance subject to authorization per REACH Annex XIV

Contains:

POLY(OXY-1,2-ETHANEDIYL)- α -[4-(1,1,3,3-TETRAMETHYL BUTYL)PHENYL]- ω -HYDROXY	Weight-%	Substance subject to authorization per REACH Annex XIV
CAS-No.: 9002-93-1 EC-No.: 618-344-0	< 0.9	Intrinsic properties: Endocrine disrupting properties (Article 57(f) – environment) Application date: July 4, 2019 Sunset date: January 4, 2021 Exempted uses: 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 CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	Weight-% 40 - 70	Water hazard class (WGK) Hazard class 1 – slightly hazardous to water
POLY(OXY-1,2-ETHANEDIYL)-α-[4-(1,1,3,3-TETRAMETHYL BUTYL)PHENYL]-ω-HYDROXY CAS-No.: 9002-93-1 EC-No.: 618-344-0	Weight-% < 0.9	Water hazard class (WGK) Hazard class 2 – obviously 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	-

Poly(oxy-1,2-ethanediyl)- α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy CAS-No 9002-93-1

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not 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>

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 Ligation Mix, LM
Product Name D01680
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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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

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	No data available
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

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	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>

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
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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

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 D01681
Product Name Linker Oligo, LO
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

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	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 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

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

A Chemical Safety Assessment has not 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>

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 D01682
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
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 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.

3.1 Substances

Not Applicable

3.2 Mixtures

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

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

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 ³ TWA (respirable dust); 15 mg/m ³ TWA (inhalable dust),
Canada (Ontario)	10 mg/m ³
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)

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

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

Appearance	liquid
Color	colorless
Odor	mild
Odor threshold	No information 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: 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/m³ (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

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

Non.

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	40 - 70	Hazard class 1 – slightly hazardous to water
EC-No.: 200-289-5		
REACH registration number:		
01-2119471987-18-XXXX		

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-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>

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 D01689
Product Name Bead Diluent, BD
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

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	No data available
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

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

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End of safety data sheet.