

MSDS Compilation – Small RNA-Seq Library Prep Kits

Lexogen GmbH

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This information is provided for purchasers of the **Small RNA-Seq Library Prep Kits**, represented by the following catalogue numbers: 052.08, 052.24, 052.96, 058.08, 058.24, 058.96

Tube	Reagent	MSDS
A3	3' Adapter	No ¹⁾
LM1	Ligation Mix 1	No ¹⁾
E1	Enzyme Mix 1	No ¹⁾
A5	5' Adapter	No ¹⁾
LM2	Ligation Mix 2	No ¹⁾
E2	Enzyme Mix 2	No ¹⁾
RTP	Reverse Transcription Primer	No ¹⁾
FS	First Strand cDNA Synthesis Mix	No ¹⁾
E3	Enzyme Mix 3	No ¹⁾
H2O	Nuclease-Free Water	No ¹⁾
PCR	PCR Mix	No ¹⁾
P5	P5 Primer	No ¹⁾
Sri	Small RNA i7 Index Primer	No ¹⁾
CB	Column Binding Buffer	Yes
CW	Column Wash Buffer	No ¹⁾
EB	Elution Buffer	No ¹⁾
PB	Purification Beads	No ¹⁾
PS	Purification Solution	No ¹⁾

Table 1: Overview of Lexogen MSDS for Small RNA-Seq Library Prep Kits

1) Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or preparation according to EC directives 67/548/EEC or 1999/45/EC.

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

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

1.1 Product Identifiers

Product Name	Column Binding Buffer (CB)
Product Number	N/A
Kit name	Silica Size Cut-off Kits
Kit numbers	052.08, 052.24, 052.96
Brand	Lexogen

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

Identified uses	Laboratory chemicals, FOR RESEARCH USE ONLY
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1.3 Details of the supplier of the Material Safety Data Sheet

Company	Lexogen GmbH Campus Vienna Biocenter 5 1030 Vienna Austria
Telephone	+43 1 345 1212
Fax	+43 1 345 1212-99
Email Address	support@lexogen.com

1.4 Emergency telephone number

Emergency Telephone	+43 1 406 43 43
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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Skin corrosion (Category 1C)
Chronic aquatic toxicity (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Causes burns.

2.2 Label elements

Pictogram :



Signal word Danger

Hazard statement(s)

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H412 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.

Supplemental Hazard information (EU)

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards none

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Guanidine thiocyanate		
CAS-No.: 593-84-0 EC-No.: 209-812-1 Index-No.: 615-030-00-5	Acute Tox. Oral 4; Acute Tox. Inh. 4; Acute Tox. Derm. 4; Skin corr. 1C; Chron. Aquat. Tox. 3; H302 + H312 + H332, H314, H412, EUH032	30-60 %

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
Guanidine thiocyanate		
CAS-No.: 593-84-0 EC-No.: 209-812-1 Index-No.: 615-030-00-5	R20/21/22, R32, R34, R52/53	30-60 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 4. First aid measures

4.1 Description of first aid measures

General Advice

After exposure, consult physician. Show the physician this material safety data sheet.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

Dry powder.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides, sulphur oxides.

5.3 Precautions for fire-fighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Do not store near acids.

7.3 Specific end uses

No further relevant information available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

8.2 Exposure controls

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: liquid, clear Colour:
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	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

No data available.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong acids, strong oxidizing agents, cyanides.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 – oral – rat 593 mg/kg

LD50 – intraperitoneal – mouse 300 mg/kg

Primary irritant effect on the skin

No data available.

Primary irritant effect on the eye

No data available.

Sensitization

No sensitizing effects known.

Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the latest version of the EU lists.

Potential health effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.

SECTION 12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused products.

SECTION 14. Transport information

14.1 UN-Number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard classes

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG: Marine pollutant: no IATA: no

14.6 Special precautions for users

No data available.

SECTION 15. Regulatory information

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

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

No data available.

15.2 Chemical safety assessment

No data available.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3

Acute Tox. Oral	Acute toxicity, Oral
Acute Tox. Inh.	Acute toxicity, Inhalation
Acute Tox. Derm.	Acute toxicity, Dermal
Skin Corr.	Skin corrosion
Chron. Aquat. Tox.	Chronic aquatic toxicity
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

Full text of R-phrases referred to under sections 2 and 3.

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R32	Contact with acids liberates very toxic gas.

R34	Causes burns.
R41	Risk of serious damage to the eyes.
R52/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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. It does not represent any guarantee of the properties of the product. Lexogen shall not be held liable for any damage resulting from handling or from contact with the above product. Please see also our terms and conditions on our website www.lexogen.com
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