

## MSDS Compilation – SENSE mRNA-Seq Library Prep Kits

### Lexogen GmbH

Campus Vienna Biocenter 5, 1030 Vienna, Austria  
www.lexogen.com

This information is provided for purchasers of the **SENSE mRNA-Seq Library Prep Kits**, represented by the following catalogue numbers: 004.03, 004.08, 004.24, 006.03, 006.08, 006.24

Tube	Reagent	MSDS
MB	Magnosphere MS150 / oligodT Beads	No <sup>1)</sup>
HYB	RNA Hybridization Buffer	No <sup>1)</sup>
H2O	Molecular Biology Grade Water	No <sup>1)</sup>
RTS	Reverse Transcription and Ligation Mix short	No <sup>1)</sup>
RTL	Reverse Transcription and Ligation Mix Long	No <sup>1)</sup>
ST	Starter/Stopper Mix (No In-line Barcode)	No <sup>1)</sup>
E1	Enzyme Mix 1	No <sup>1)</sup>
SSM	Second Strand Synthesis Mix	No <sup>1)</sup>
E2	Enzyme Mix 2	No <sup>1)</sup>
PCR	PCR Mix	No <sup>1)</sup>
EB	Elution Buffer	No <sup>1)</sup>
BW	Bead Wash Buffer	No <sup>1)</sup>
CBS	Column Binding Buffer Short	Yes
CBL	Column Binding Buffer Long	Yes
CW	Column Wash Buffer	No <sup>1)</sup>

**Table 1: Overview of Lexogen MSDS for SENSE mRNA-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

Version 1.1, revised 2014-10-21

Date of print 2014-10-21

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

### 1.1 Product Identifiers

Product Name	Column Binding Buffer Short (CBS) Column Binding Buffer Long (CBL)
Product Number	N/A
Kit name	SENSE mRNA-Seq Library Prep Kits
Kit numbers	004.03, 004.08, 004.24, 006.03, 006.08, 006.24
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	<a href="mailto:support@lexogen.com">support@lexogen.com</a>

### 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
<b>Guanidine thiocyanate</b>		
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	20-80 %

**Hazardous ingredients according to Directive 1999/45/EC**

Component	Classification	Concentration
<b>Guanidine thiocyanate</b>		
CAS-No.: 593-84-0 EC-No.: 209-812-1 Index-No.: 615-030-00-5	R20/21/22, R32, R34, R52/53	20-80 %

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

<b>Inhalation</b>	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed. Causes burns.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin burns.
<b>Eyes</b>	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](http://www.lexogen.com)  
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