

SAFETY DATA SHEET



SureGuide GeCKO v2.0 Mouse Exome CRISPR Library

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

1.1 Product identifier

Product name : SureGuide GeCKO v2.0 Mouse Exome CRISPR Library

CAS number : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not applicable.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not applicable.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not applicable.

Part no. (chemical kit) : G7554A

Part no. : SureGuide pSGLenti GeCKO v2.0 Library MuEx A 5190-9521
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B 5190-9522
 SureGuide pSGLenti CRISPR Control Plasmid Mouse 5190-9525

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

Identified uses : Analytical reagent.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx A 4 x 0.025 ml (25 µl 1 µg/µl)
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B 4 x 0.025 ml (25 µl 1 µg/µl)
 SureGuide pSGLenti CRISPR Control Plasmid Mouse 0.025 ml (25 µl 1 µg/ul)

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
 Hewlett-Packard-Str. 8
 76337 Waldbronn
 Germany
 0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +353 1 901 4670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

SECTION 2: Hazards identification

Product definition	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Mixture
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Mixture
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Mixture

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

Not classified.

SureGuide pSGLenti GeCKO v2.0 Library MuEx A The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

SureGuide pSGLenti CRISPR Control Plasmid Mouse The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No signal word.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No signal word.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No signal word.
Hazard statements	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

Precautionary statements

Prevention	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Response	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.

SECTION 2: Hazards identification

Storage	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Disposal	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Supplemental label elements	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Special packaging requirements		
Tactile warning of danger	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Other hazards which do not result in classification	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	None known.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	None known.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Mixture
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Mixture
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	: SureGuide pSGLenti CRISPR Control Plasmid	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities

SECTION 4: First aid measures

	Mouse	of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No action shall be taken involving any personal risk or without suitable training.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No action shall be taken involving any personal risk or without suitable training.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Inhalation	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Skin contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Ingestion	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

SECTION 4: First aid measures

Inhalation	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.
Skin contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.
Ingestion	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific treatment.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific treatment.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Use an extinguishing agent suitable for the surrounding fire.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Use an extinguishing agent suitable for the surrounding fire.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

Unsuitable extinguishing media	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	None known.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	None known.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	In a fire or if heated, a pressure increase will occur and the container may burst.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	In a fire or if heated, a pressure increase will occur and the container may burst.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureGuide pSGLenti CRISPR Control Plasmid Mouse	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Put on appropriate personal protective equipment (see Section 8).
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Put on appropriate personal protective equipment (see Section 8).
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

SECTION 7: Handling and storage

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Industrial applications, Professional applications.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Industrial applications, Professional applications.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Industrial applications, Professional applications.
Industrial sector specific solutions	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not available.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not available.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Liquid.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Liquid.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Liquid.
- Colour** : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.
- Odour** : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

SECTION 9: Physical and chemical properties

Odour threshold	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not available.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not available.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not available.
Melting point/freezing point	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	0°C
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	0°C
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	0°C
Initial boiling point and boiling range	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	100°C
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	100°C
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	100°C
Flammability	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.
Upper/lower flammability or explosive limits	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not available.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not available.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not available.
Flash point	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not available.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not available.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not available.
Auto-ignition temperature	: Not available.	

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Decomposition temperature : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

pH : SureGuide pSGLenti GeCKO v2.0 Library MuEx A 7
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B 7
 SureGuide pSGLenti CRISPR Control Plasmid Mouse 7

Viscosity : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Solubility(ies)	Media	Result
	SureGuide pSGLenti GeCKO v2.0 Library MuEx A water	Soluble
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B water	Soluble
	SureGuide pSGLenti CRISPR Control Plasmid Mouse water	Soluble

Partition coefficient: n-octanol/water : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not applicable.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not applicable.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not applicable.

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	SureGuide pSGLenti GeCKO v2.0 Library MuEx A water	17.5	2.3	-	92.258	12.3	-
	SureGuide pSGLenti GeCKO v2.0 Library MuEx						

SECTION 9: Physical and chemical properties

B							
water	17.5	2.3	-		92.258	12.3	-
SureGuide pSGLenti CRISPR Control Plasmid Mouse							
water	17.5	2.3	-		92.258	12.3	-

Evaporation rate : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.

SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Relative density : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.

SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Vapour density : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.

SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Explosive properties : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.

SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Oxidising properties : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not available.

SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not available.

SureGuide pSGLenti CRISPR Control Plasmid Mouse Not available.

Particle characteristics

SECTION 9: Physical and chemical properties

Median particle size	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not applicable.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not applicable.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific test data related to reactivity available for this product or its ingredients.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific test data related to reactivity available for this product or its ingredients.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	The product is stable.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	The product is stable.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	The product is stable.
10.3 Possibility of hazardous reactions	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	May react or be incompatible with oxidising materials.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	May react or be incompatible with oxidising materials.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	Not available.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	Not available.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	Not available.

SECTION 11: Toxicological information

Potential acute health effects

Inhalation	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Ingestion	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Skin contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Eye contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.
Ingestion	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

SECTION 11: Toxicological information

Skin contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.
Eye contact	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No specific data.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No specific data.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Conclusion/Summary	: Not available.	
General	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.
Carcinogenicity	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

Mutagenicity	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Reproductive toxicity	: SureGuide pSGLenti GeCKO v2.0 Library MuEx A	No known significant effects or critical hazards.
	: SureGuide pSGLenti GeCKO v2.0 Library MuEx B	No known significant effects or critical hazards.
	: SureGuide pSGLenti CRISPR Control Plasmid Mouse	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- 14.7 Transport in bulk according to IMO instruments** : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

- Label** : SureGuide pSGLenti GeCKO v2.0 Library MuEx A Not applicable.
 SureGuide pSGLenti GeCKO v2.0 Library MuEx B Not applicable.
 SureGuide pSGLenti CRISPR Control Plasmid Mouse Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

SECTION 15: Regulatory information

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration

SECTION 16: Other information

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
Not classified.	

[Full text of abbreviated H statements](#)

Not applicable.

[Full text of classifications \[CLP/GHS\]](#)

Not applicable.

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Date of previous issue : No previous validation

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