



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008

Revision Date 08-Oct-2024

Revision Number 6

EGHS / English

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s)	Various-Lentiviral particle format
Product Name	SMARTvectorLentiviral shRNA, SMARTvector InducibleLentiviral shRNA, shMIMICLentiviral microRNA, shMIMICInducible Lentiviral microRNA, GIPZ Lentiviral shRNA, Decode, Precision LentiORF, Edit-R Lentiviral Cas9, Lentiviral dCas9-VPR, Edit-R Lentiviral sgRNA, CRISPRa Lentiviral sgRNA, Edit-R All-in-one Lentiviral sgRNA, CRISPRi Lentiviral Blast-dCas9, CRISPRi Lentiviral sgRNA, FGS CRISPRko
Reach Number	A registration number is not required for this substance.

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

Recommended Use	For research use only.
Uses advised against	No information available.

1.3. Details of the supplier of the safety data sheet

Supplier Name	Horizon Discovery Biosciences Ltd. A Revvity Inc. Company
Supplier Address	2650 Crescent Drive Suite 100 Lafayette, CO 80026
Supplier Phone Number	Tel: 303-604-9499 Fax: 303-604-9680
Supplier Email	technical@horizondiscovery.com

For further information, please contact.

1.4. Emergency telephone number

For 24/7 multilingual advice for a spill, leak, fire, exposure or accident call CHEMTREC at +44 20 3885 0382 (EMEA) or +1 800 424 9300 (Toll Free) and provide CCN 1015970.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of substance according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.2. Label elements

Label elements according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.3. Other hazards

Each viral particle stock contains a pure recombinant, replication-defective lentivirus population. Lentiviral vectors are considered GMO's. The viral particles are classified as Risk Group 2 by the World Health Organization (WHO) and Biosafety Level 2 (BL2) or Enhanced BL2 (depending on the circumstances) by the U.S. Centers for Disease Control (CDC) Office of Health and Safety.

SECTION 3: Composition/information on ingredients

3.1 Substances

This product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Lentiviral Particles*	-	XXX-XX-X	1-99%	No data available	No data available
DMEM**	-	N/A	1-99%	No data available	No data available

* Any concentration shown as a range is to protect confidentiality or is due to process variation.

**All components need not be disclosed according to applicable regulations due to non-hazardous classification status.

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
DMEM	N/A	-
Lentiviral Particles	XXX-XX-X	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. Administer oxygen if breathing is difficult. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	DO NOT induce vomiting. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media 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

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

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 Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. This material should be handled at the biosafety level 2 (BSL2) as required by OSHA Bloodborne Pathogen Rule (29 CFR 1910.1030.7).

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. Keep at -80°C.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand Protection Protective gloves.

Skin and body protection Wear suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Colour Yellow
Odour Data not relevant for safe use

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
Melting / freezing point	Data not relevant for safe use	None known	
Boiling point / boiling range	Data not relevant for safe use	None known	
Flammability	Data not relevant for safe use	None known	
Lower and Upper Exposure Limit	Data not relevant for safe use	None known	
Flash Point	Data not relevant for safe use	None known	
Auto-ignition Temperature	Data not relevant for safe use	None known	
Flammability Limit in Air	Data not relevant for safe use	None known	
Decomposition Temperature	Data not relevant for safe use	None known	
pH	Data not relevant for safe use	None known	
Kinematic viscosity	Data not relevant for safe use	None known	
Solubility	Data not relevant for safe use	None known	
Partition coefficient: n-octanol/water	Data not relevant for safe use	None known	
Vapour pressure	Data not relevant for safe use	None known	
Density / Relative Density	Data not relevant for safe use	None known	
Relative vapour density	Data not relevant for safe use	None known	
Decomposition temperature	Data not relevant for safe use	None known	
Particle characteristics	Data not relevant for safe use	None known	

9.2. Other information

Softening Point Data not relevant for safe use
Molecular Weight Data not relevant for safe use
VOC Content (%) Data not relevant for safe use
Liquid Density Data not relevant for safe use
Bulk Density Data not relevant for safe use
Particle Size Data not relevant for safe use

Particle Size Distribution Data not relevant for safe use

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Excessive heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Test data is not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture.

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity Shall not be classified as acutely toxic.

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Ecotoxicity

No information 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. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	No information available.

SECTION 14: Transport information

IMDG

14.1 UN Number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

RID

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

ADR

14.1 UN-No.	UN3245
14.2 Proper Shipping Name	Genetically Modified Micro-Organism
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable

IATA

14.1 UN Number	UN3245
14.2 Proper Shipping Name	GMMO

14.3 Hazard Class	9
Subsidiary class	III
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date 08-Oct-2024

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Data for Regulatory Rules