

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

This MSDS is related to all Virongy Products as listed:

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| 1. Rapid Pseudovirus | 3. HPV Pseudovirus |
| 2. Lenti Pseudovirus | 4. AAV Pseudovirus |

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Manassas VA 20109

Emergency phone (Chemtrec): US and Canada: 1-800-424-9300 or 1-703-527-3887
Outside US and Canada: 1-703-741-5970

Recommended use: *Research use only.*

SECTION 2: HAZARDS IDENTIFICATION

GHS classification:
GHS label elements: None
Hazard pictograms: None
Signal words: None
Hazards statement: None
HMIS:

Health	0
Flammability	0
Reactivity	0

SECTION 3: COMPOSITION / INFORMATION OF INGREDIENTS

This MSDS is applicable to pre-made and custom-made lentiviral/pseudoviral particles which are replication defective, non-infectious, and are not hazardous as defined by OSHA 1919.1200. CoV2, CoV, VSV-G products are non-hazardous, non-contagious, and non-infectious. However, lentiviral vector-derived particles are produced in human cells, and there is a possibility of recombination to generate infectious viruses. They should be handled as potentially infectious material.

SECTION 4: FIRST AID MEASURES

Skin contact: Wash affected area with plenty of soap and water. If irritation or rash occurs, consult a physician.

Eye contact: Hold eyelids open and run a gentle stream of water into the affected eye(s) for at least 15 minutes. If possible, remove contact lenses. See a physician if necessary.

Ingestion: Rinse mouth with water. Consult a physician if feeling unwell.

Inhalation: Move to an area with fresh air/adequate ventilation. If not breathing, give artificial respiration. Contact a physician or emergency assistance.

Most important symptoms/effects,

both acute and delayed: Not available.

Indication of any immediate

**medical attention and special
treatment needed:**

Not available.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: Water, foam, carbon dioxide.

Special hazards arising from

substance or mixture: None.

Advice for firefighters: Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment and emergency procedures: Wear personal protective equipment and use proper ventilation, suitable for a BSL-2 lab.

Environmental precautions: None.

**Methods and material for containment
and cleaning up:**

Clean up spills using 10% chlorine bleach. Allow at least 30 minutes to inactivate particles before clean up.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment.

Conditions for safe storage,

including any incompatibilities: Store product in -80°C.

Specific end use(s): For research use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Handle product using appropriate laboratory safety practices.

Eye protection: Safety goggles/glasses.

Respiratory protection: Use proper ventilation. No special respiratory protection is needed.

Hand protection: Wear chemical resistant gloves.

Skin/body protection: Wear protective clothing to cover skin.

Hygiene measures: Clean up spills using 10% chlorine bleach.

Environmental exposure controls: Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical state:	Frozen particle suspension
Color:	No data
Odor:	No data
Molecular weight:	No data
Freezing point:	°C/°F No data
Melting point:	°C/°F No data
Boiling point:	°C/°F No data
Flammability:	No data
Lower explosion limit:	No data
Upper explosion limit:	No data
Flash point:	°C/°F No data
Autoignition temperature:	°C/°F No data
Decomposition temperature:	°C/°F No data
pH:	No data
Viscosity:	No data
Evaporation rate:	No data
Solubility:	No data
Vapor pressure:	No data
Vapor density:	No data
Coefficient water/oil:	No data

SECTION 10: STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Reactivity:	Using available data, classification criteria is not met.
Possible hazardous reactions:	No data.
Conditions to avoid:	No data.
Incompatible materials:	No data.
Hazardous decomposition products:	No data.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Mouth, skin and eyes.
Acute toxicity:	Using available data, classification criteria is not met.
Skin corrosion/irritation:	No data.
Serious eye damage/irritation:	No data.
Respiratory or skin sensitization:	Using available data, classification criteria is not met.
Specific target organ toxicity	
– single exposure:	Using available data, classification criteria is not met.
Specific target organ toxicity	
– repeated exposure:	Using available data, classification criteria is not met.
Carcinogenicity:	Using available data, classification criteria is not met.
Germ cell mutagenicity:	Using available data, classification criteria is not met.
Reproductive toxicity:	Using available data, classification criteria is not met.
Aspiration hazard:	Using available data, classification criteria is not met.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No data available.
Bioaccumulate potential:	No data available.
Persistence and degradability:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal:	Proper disposal of the product is the responsibility of the user. Waste disposal should follow federal, state, and local laws.
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SECTION 14: TRANSPORT MEASURES

U.S. DOT/IMGD/IATA Information

UN number:	Not regulated.
Proper shipping name:	Not applicable.
Transport hazard class:	Not applicable.
Hazardous substance:	Not applicable.
Packing group:	Not applicable.
Toxic-inhalation hazard:	Not applicable.
Marine pollutant:	Not applicable.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA:	Not regulated by TSCA.
SARA 313:	Not regulated by SARA 313.

SECTION 16: OTHER INFORMATION

Revision number: 001
Revision date: 02/21/23
Reason for revision: N/A

References: N/A

ABBREVIATIONS

Chemtrec: Chemical Transportation Emergency Center (US)
OSHA: Occupational Safety and Health Administration, US Department of Labor
US DOT: US Department of Transportation
IMGD: International Maritime Dangerous Goods
IATA: International Air Transport Association
TSCA : United States Toxic Substances Control Act Section 8(b) Inventory
SARA 313: Superfund Amendments and Reauthorization Act, Section 313

DISCLAIMER

The above information is accurate to our best knowledge. The user should exercise independent judgment for the hazardous nature of materials based on all sources of information available. Virongy Biosciences shall not be held liable for any damage resulting from the handling or use of the above product.