

SAFETY DATA SHEET (SDS)



Product Name: VirusGEN® LV Transfection Kit

Product Number: MIR 6760, MIR 6765, MIR 6792

Revision Date: 03JUN2024

Print Date: 27JUL2024

This kit contains the following components. The required Safety Data Sheets for identified hazardous components are appended.

- *TransIT*-VirusGEN® Transfection Reagent
- VirusGEN® LV Enhancer
- VirusGEN® LV Complex Formation Solution

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SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier:

1.1.1. Product Name: *TransIT-VirusGEN*® Transfection Reagent

1.1.2. Product Code: 6700A, 6702A, 6703A, 6704A, 6710A, 6720A, Part of MIR 6700, MIR 6703, MIR 6704, MIR 6705, MIR 6706, MIR 6710, MIR 6720, MIR 6740, MIR 6745, MIR 6750, MIR 6755, MIR 6760, MIR 6765, MIR 6792, MIR 8007, MIR 8008

1.1.3. CAS No.: Not applicable.

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1. Identified Uses: For research use only.

1.2.2. Uses Advised Against: Not known.

1.3. Details of the Supplier of the SDS:

1.3.1. Company: Mirus Bio LLC

1.3.2. Address: 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3. Telephone No.: 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

1.3.4. Fax: +1.608.441.2849

1.3.5. Email: info@mirusbio.com

1.4. Emergency Telephone No.:

1.4.1. US and Canada: +1.800.633.8253

1.4.2. International: +1.801.629.0667

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

Flammable liquids (Category 2), H225

Eye irritation (Category 2A), H319

2.2. Label Elements:

2.2.1. Product Name:

TransIT-VirusGEN® Transfection Reagent



2.2.2. Hazard Pictogram(s):

2.2.3. Signal Word(s):

Danger

2.2.4. Hazard Statement(s):

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

2.2.5. Precautionary Statement(s):

P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, and lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents in accordance with local, state, or national legislation.

2.3. Other Hazards: Not applicable.

2.4. Additional Information: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Ethanol	64-17-5	77.5	Flam. Liq. 2 H225 Eye Irr. 2A H319	GHS 02 GHS 07

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures:

4.1.1. Inhalation: Treat symptomatically. Move to fresh air.

4.1.2. Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water.

4.1.3. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center and/or doctor.

4.1.4. Ingestion: Rinse mouth with water. Treat symptomatically. Consult physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

May cause irritation.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediately call a poison center and/or doctor. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing Media:

5.1.1. Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.1.2. Unsuitable Extinguishing Media:

Water jet spray.

5.2. Specific Hazards Arising from the Mixture:

Highly flammable liquid and vapor. May decompose in a fire, giving off toxic and irritant vapors.

5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal Precautions, Protective Equipment and Emergency Procedures:**

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves, and eye/face protection.

6.2. Environmental Precautions:

This material and its container must be disposed of in a safe way. Do not allow product to enter drains. Risk of explosion.

6.3. Methods and Materials for Containment and Cleaning Up:

Adsorb spillages onto sand, earth, or any suitable adsorbent material. Cover drains. Transfer to a container for disposal. Containers must not be punctured or destroyed by burning, even when empty.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for Safe Handling:**

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wear compatible protective gloves/protective clothing/eye protection/face protection. Wash hands after working with substance.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store in a well-ventilated place. Keep cool.

7.2.1. Storage Temperature: -10 to -30°C.**7.2.2. Storage Life:** Stable under specified storage conditions.**7.3. Specific End Use(s):** For research use only.**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control Parameters:****8.1.1. Occupational Exposure Limits:**

Ethanol (64-17-5)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure Controls:**8.2.1. Appropriate Engineering Controls:**

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal Protective Equipment:

- 8.2.2.1. **Eye Protection:** Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU). Safety glasses.
- 8.2.2.2. **Skin Protection:** Protective flame-retardant, anti-static clothing and gloves.
- 8.2.2.3. **Respiratory Protection:** Normally no personal respiratory protection is necessary.
- 8.2.2.4. **Thermal Hazards:** None known.

8.3. Environmental Exposure Controls:

Avoid release to the environment. Do not let product enter drains. Risk of explosion.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

- 9.1.1. **Appearance** Liquid
 Color: colorless.
- 9.1.2. **Odor:** Alcohol-like
- 9.1.3. **Odor Threshold:** No data available.
- 9.1.4. **pH:** No data available.
- 9.1.5. **Melting Point/freezing Point:** No data available.
- 9.1.6. **Initial Boiling Point and Boiling Range:** No data available.
- 9.1.7. **Flash Point:** No data available.
- 9.1.8. **Evaporation Rate:** No data available.
- 9.1.9. **Flammability (Solid, Gas):** No data available.
- 9.1.10. **Upper/lower Flammability or Explosive Limits:**

Upper explosion limit: No data available.

Lower explosion limit: No data available.
- 9.1.11. **Vapor Pressure:** No data available.
- 9.1.12. **Vapor Density:** No data available.
- 9.1.13. **Density:** No data available.
- 9.1.14. **Relative Density:** No data available.
- 9.1.15. **Solubility(ies):** Water soluble.
- 9.1.16. **Partition Coefficient:** No data available.
- 9.1.17. **Auto-ignition Temperature:** No data available.
- 9.1.18. **Decomposition Temperature:** No data available.
- 9.1.19. **Viscosity:** No data available.
- 9.1.20. **Explosive Properties:** No data available.
- 9.1.21. **Oxidizing Properties:** No data available.

9.2. Other Information: None.

SECTION 10. STABILITY AND REACTIVITY

- 10.1. **Reactivity:** None anticipated.
- 10.2. **Chemical Stability:** Stable under recommended storage conditions.
- 10.3. **Possibility of Hazardous Reactions:** No hazardous reactions known if used for its intended purpose.
- 10.4. **Conditions to Avoid:** Avoid friction, sparks, or other means of ignition.
- 10.5. **Incompatible Materials:** No data available.
- 10.6. **Hazardous Decomposition Products:** No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

11.1.1. Acute Toxicity – Ingestion: Ethanol, LD50, 3450 mg/kg (mouse)

11.1.2. Acute Toxicity – Skin Contact: Not classified.

11.1.3. Acute Toxicity – Inhalation: Ethanol, LD50, 20,000 ppm/10H (rat)

11.1.4. Skin Corrosion/Irritation: Not classified.

11.1.5. Serious Eye Damage Irritation:

Ethanol, Calculation method (Rabbit, OECD Test Guideline 405): Causes serious eye irritation.

11.1.6. Skin Sensitization Data: Not classified.

11.1.7. Respiratory Sensitization Data: Not classified.

11.1.8. Germ Cell Mutagenicity: Not classified.

11.1.9. Carcinogenicity

IARC: Ethanol, Group I

NTP: Ethanol

OSHA: Ethanol

11.1.10. Reproductive Toxicity:

Reproductive toxicity - Human - female - Oral

Effects on Newborn: Apgar score (human only).

Effects on Newborn: Other neonatal measures or effects.

Effects on Newborn: Drug dependence.

11.1.11. Lactation: Not classified.

11.1.12. Specific Target Organ Toxicity - Single Exposure: Not classified.

11.1.13. Specific Target Organ Toxicity - Repeated Exposure: Not classified.

11.1.14. Aspiration Hazard: Not classified.

11.2. Additional Information: None.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity (Aquatic and Terrestrial, Where Available): Low toxicity to invertebrates, fish, and algae.

12.2. Persistence and Degradation: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in Soil: No data available.

12.5. Other Adverse Effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods: Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number: 1170

14.2. UN Proper Shipping Name: Ethanol

14.3. Transport Hazard Class(es): Class 3

14.4. Packing Group, If Applicable: Packing Group II

14.5. Environmental Hazards: Not classified as a marine pollutant.

14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)): None.

14.7. Other Special Precautions Related to Transport: None.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:

SARA 302/313 Components

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire hazard. Acute health hazard.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

WHMIS Hazard Class

B2 Flammable liquid

D2B Toxic material causing other toxic effects

SECTION 16. OTHER INFORMATION

16.1. Revision Date: 24 MAY 2024

16.2. Reason for Revision: Update of Mirus Bio logo. Updated SDS content to align with ethanol-related hazards. Addition of item-level part numbers to Section 1.1.2.

16.3. Additional Information: None.

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SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier:

1.1.1. **Product Name:** VirusGEN® LV Enhancer

1.1.2. **Product Code:** 6761A, Part of MIR 6760, MIR 6761, MIR 6765, MIR 6766, and MIR 6792

1.1.3. **CAS No.:** Not applicable.

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1. **Identified Uses:** For research use only.

1.2.2. **Uses Advised Against:** Not known.

1.3. Details of the Supplier of the SDS:

1.3.1. **Company:** Mirus Bio LLC

1.3.2. **Address:** 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3. **Telephone No.:** 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

1.3.4. **Fax:** +1.608.441.2849

1.3.5. **Email:** info@mirusbio.com

1.4. Emergency Telephone No.:

1.4.1. US and Canada: +1.800.633.8253

1.4.2. International: +1.801.629.0667

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

This substance or mixture is not considered hazardous.

2.2. Label Elements:

2.2.1. **Product Name:** VirusGEN® LV Enhancer

2.2.2. **Hazard Pictogram(s):** Not applicable.

2.2.3. **Signal Word(s):** Not applicable.

2.2.4. **Hazard Statement(s):** Not applicable.

2.2.5. **Precautionary Statement(s):**
Not applicable.

2.3. **Other Hazards:** Not applicable.

2.4. **Additional Information:** None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

This mixture contains no ingredients at their given concentration considered to be hazardous to health.

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures:

4.1.1. Inhalation: Treat symptomatically.

4.1.2. Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water.

4.1.3. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center and/or doctor.

4.1.4. Ingestion: Rinse mouth with water. Treat symptomatically. Consult physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediately call a poison center and/or doctor. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing Media:

5.1.1. Suitable Extinguishing Media:

Use extinguishing media that is appropriate to local circumstances and environment.

5.1.2. Unsuitable Extinguishing Media:

No information available.

5.2. Specific Hazards Arising from the Mixture:

None known.

5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Provide adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection.

6.2. Environmental Precautions:

This material and its container must be disposed of in a safe way.

6.3. Methods and Materials for Containment and Cleaning Up:

Adsorb spillages onto sand, earth, or any suitable adsorbent material. Transfer to a container for disposal.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Handle in accordance with good industrial hygiene and safety practices. Wear protective gloves and eye/face protection.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store tightly closed in a well-ventilated place. Keep cool.

7.2.1. Storage Temperature: 4°C.

7.2.2. Storage Life: Stable under specified storage conditions.

7.3. Specific End Use(s): For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

8.1.1. Occupational Exposure Limits: Not applicable.

8.2. Exposure Controls:

8.2.1. Appropriate Engineering Controls:

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal Protective Equipment:

8.2.2.1. Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU). Safety glasses.

8.2.2.2. Skin Protection: Protective clothing and gloves.

8.2.2.3. Respiratory Protection: Normally no personal respiratory protection is necessary.

8.2.2.4. Thermal Hazards: None known.

8.3. Environmental Exposure Controls:

Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

9.1.1. Appearance: Liquid
Color: colorless.

9.1.2. Odor: No data available.

9.1.3. Odor Threshold: No data available.

9.1.4. pH: No data available.

9.1.5. Melting Point/freezing Point: No data available.

9.1.6. Initial Boiling Point and Boiling Range: No data available.

9.1.7. Flash Point: No data available.

9.1.8. Evaporation Rate: No data available.

9.1.9. Flammability (Solid, Gas): No data available.

9.1.10. Upper/lower Flammability or Explosive Limits:

Upper explosion limit: No data available.

Lower explosion limit: No data available.

9.1.11. Vapor Pressure: No data available.

9.1.12. Vapor Density: No data available.

9.1.13. Density: No data available.

9.1.14. Relative Density: No data available.

9.1.15. Solubility(ies): Water soluble.

9.1.16. Partition Coefficient: No data available.

9.1.17. Auto-ignition Temperature: No data available.

9.1.18. Decomposition Temperature: No data available.

9.1.19. Viscosity: No data available.

9.1.20. Explosive Properties: No data available.

9.1.21. Oxidizing Properties: No data available.

9.2. Other Information: None.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: None anticipated.

10.2. Chemical Stability: Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions: No hazardous reactions known if used for its intended purpose.

10.4. Conditions to Avoid: None known.

10.5. Incompatible Materials: No data available.

10.6. Hazardous Decomposition Products: No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

11.1.1. **Acute Toxicity – Ingestion:** Not classified.

11.1.2. **Acute Toxicity – Skin Contact:** Not classified.

11.1.3. **Acute Toxicity – Inhalation:** Not classified.

11.1.4. **Skin Corrosion/Irritation:** Not classified.

11.1.5. **Serious Eye Damage Irritation:** Not classified.

11.1.6. **Skin Sensitization Data:** Not classified.

11.1.7. **Respiratory Sensitization Data:** Not classified.

11.1.8. **Germ Cell Mutagenicity:** Not classified.

11.1.9. Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.1.10. **Reproductive Toxicity:** Not classified.

11.1.11. **Lactation:** Not classified.

11.1.12. **Specific Target Organ Toxicity - Single Exposure:** Not classified.

11.1.13. **Specific Target Organ Toxicity - Repeated Exposure:** Not classified.

11.1.14. **Aspiration Hazard:** Not classified.

11.2. **Additional Information:** None.

SECTION 12. ECOLOGICAL INFORMATION

12.1. **Ecotoxicity (Aquatic and Terrestrial, Where Available):** No data available.

12.2. **Persistence and Degradation:** No data available.

12.3. **Bioaccumulative potential:** No data available.

12.4. **Mobility in Soil:** No data available.

12.5. **Other Adverse Effects:** No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. **Waste Treatment Methods:** Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

SECTION 14. TRANSPORT INFORMATION

14.1. **UN Number:** Not regulated.

14.2. **UN Proper Shipping Name:** Not regulated.

14.3. **Transport Hazard Class(es):** Not regulated.

14.4. **Packing Group, If Applicable:** Not regulated.

14.5. **Environmental Hazards:** Not classified as a marine pollutant.

14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)): None.

14.7. Other Special Precautions Related to Transport: None.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:

SARA 302/313 Components

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

None.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

WHMIS Hazard Class

Non-controlled. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

16.1. Revision Date: 24 MAY 2024

16.2. Reason for Revision: Update of Mirus Bio logo. Addition of MIR 6761 to Section 1.1.2.

16.3. Additional Information: None.

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SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier:

1.1.1. Product Name: VirusGEN® LV Complex Formation Solution

1.1.2. Product Code: 6762A, Part of MIR 6760, MIR 6762, MIR 6765, MIR 6767, and MIR 6792

1.1.3. CAS No.: Not applicable.

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1. Identified Uses: For research use only.

1.2.2. Uses Advised Against: Not known.

1.3. Details of the Supplier of the SDS:

1.3.1. Company: Mirus Bio LLC

1.3.2. Address: 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3. Telephone No.: 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

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1.4. Emergency Telephone No.:

1.4.1. US and Canada: +1.800.633.8253

1.4.2. International: +1.801.629.0667

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

This substance or mixture is not considered hazardous.

2.2. Label Elements:

2.2.1. Product Name:

VirusGEN® LV Complex Formation Solution

2.2.2. Hazard Pictogram(s):

Not applicable.

2.2.3. Signal Word(s):

Not applicable.

2.2.4. Hazard Statement(s):

Not applicable.

2.2.5. Precautionary Statement(s):

Not applicable.

2.3. Other Hazards: Not applicable.

2.4. Additional Information: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

This mixture contains no ingredients at their given concentration considered to be hazardous to health.

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures:

4.1.1. Inhalation: Treat symptomatically.

4.1.2. Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water.

4.1.3. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center and/or doctor.

4.1.4. Ingestion: Rinse mouth with water. Treat symptomatically. Consult physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediately call a poison center and/or doctor. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing Media:

5.1.1. Suitable Extinguishing Media:

Use extinguishing media that is appropriate to local circumstances and environment.

5.1.2. Unsuitable Extinguishing Media:

No information available.

5.2. Specific Hazards Arising from the Mixture:

None known.

5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Provide adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection.

6.2. Environmental Precautions:

This material and its container must be disposed of in a safe way.

6.3. Methods and Materials for Containment and Cleaning Up:

Adsorb spillages onto sand, earth, or any suitable adsorbent material. Transfer to a container for disposal.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Handle in accordance with good industrial hygiene and safety practices. Wear protective gloves and eye/face protection.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store tightly closed in a well-ventilated place. Keep cool.

7.2.1. Storage Temperature: 4°C.

7.2.2. Storage Life: Stable under specified storage conditions.

7.3. Specific End Use(s): For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

8.1.1. Occupational Exposure Limits: Not applicable.

8.2. Exposure Controls:

8.2.1. Appropriate Engineering Controls:

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal Protective Equipment:

8.2.2.1. Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU). Safety glasses.

8.2.2.2. Skin Protection: Protective clothing and gloves.

8.2.2.3. Respiratory Protection: Normally no personal respiratory protection is necessary.

8.2.2.4. Thermal Hazards: None known.

8.3. Environmental Exposure Controls:

Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

9.1.1. Appearance: Liquid
Color: colorless.

9.1.2. Odor: No data available.

9.1.3. Odor Threshold: No data available.

9.1.4. pH: No data available.

9.1.5. Melting Point/freezing Point: No data available.

9.1.6. Initial Boiling Point and Boiling Range: No data available.

9.1.7. Flash Point: No data available.

9.1.8. Evaporation Rate: No data available.

9.1.9. Flammability (Solid, Gas): No data available.

9.1.10. Upper/lower Flammability or Explosive Limits:

Upper explosion limit: No data available.

Lower explosion limit: No data available.

9.1.11. Vapor Pressure: No data available.

9.1.12. Vapor Density: No data available.

9.1.13. Density: No data available.

9.1.14. Relative Density: No data available.

9.1.15. Solubility(ies): Water soluble.

9.1.16. Partition Coefficient: No data available.

9.1.17. Auto-ignition Temperature: No data available.

9.1.18. Decomposition Temperature: No data available.

9.1.19. Viscosity: No data available.

9.1.20. Explosive Properties: No data available.

9.1.21. Oxidizing Properties: No data available.

9.2. Other Information: None.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: None anticipated.

10.2. Chemical Stability: Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions: No hazardous reactions known if used for its intended purpose.

10.4. Conditions to Avoid: None known.

10.5. Incompatible Materials: No data available.

10.6. Hazardous Decomposition Products: No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

11.1.1. **Acute Toxicity – Ingestion:** Not classified.

11.1.2. **Acute Toxicity – Skin Contact:** Not classified.

11.1.3. **Acute Toxicity – Inhalation:** Not classified.

11.1.4. **Skin Corrosion/Irritation:** Not classified.

11.1.5. **Serious Eye Damage Irritation:** Not classified.

11.1.6. **Skin Sensitization Data:** Not classified.

11.1.7. **Respiratory Sensitization Data:** Not classified.

11.1.8. **Germ Cell Mutagenicity:** Not classified.

11.1.9. **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.1.10. **Reproductive Toxicity:** Not classified.

11.1.11. **Lactation:** Not classified.

11.1.12. **Specific Target Organ Toxicity - Single Exposure:** Not classified.

11.1.13. **Specific Target Organ Toxicity - Repeated Exposure:** Not classified.

11.1.14. **Aspiration Hazard:** Not classified.

11.2. **Additional Information:** None.

SECTION 12. ECOLOGICAL INFORMATION

12.1. **Ecotoxicity (Aquatic and Terrestrial, Where Available):** No data available.

12.2. **Persistence and Degradation:** No data available.

12.3. **Bioaccumulative potential:** No data available.

12.4. **Mobility in Soil:** No data available.

12.5. **Other Adverse Effects:** No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. **Waste Treatment Methods:** Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

SECTION 14. TRANSPORT INFORMATION

14.1. **UN Number:** Not regulated.

14.2. **UN Proper Shipping Name:** Not regulated.

14.3. **Transport Hazard Class(es):** Not regulated.

14.4. **Packing Group, If Applicable:** Not regulated.

14.5. **Environmental Hazards:** Not classified as a marine pollutant.

14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)): None.

14.7. Other Special Precautions Related to Transport: None.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:

SARA 302/313 Components

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

None.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

WHMIS Hazard Class

Non-controlled. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

16.1. Revision Date: 24 MAY 2024

16.2. Reason for Revision: Update of Mirus Bio logo. Addition of MIR 6762 to Section 1.1.2.

16.3. Additional Information: None.

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