

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

■ Production Name: Viogene<sup>®</sup> Viofectin<sup>™</sup> Transfection Reagent

■ Catalogue Number: VFT1001

■ Manufacturer/ Supplier: **VIOGENE BIOTEK CORP.**

Address: 10F, No.276, Da-Tung Rd., Sec.1,  
Sijhih Dist., New Taipei City, Taiwan, R.O.C.  
Tel: + 886 2 26472259

■ Preparation Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

■ Contact / Preparatory: Simon Chou

■ Information Number: + 886 2 2647 2259

### 2. COMPOSITION / DATA ON COMPONENTS

■ Description: Polyethylenimine in water

### 3. HAZARDS IDENTIFICATION

■ *Potential health effects:*

**Eyes:** N/A

**Skin:** N/A

**Inhalation:** N/A

**NEDA** N/A

**Ratings:** N/A

### 4. FIRST AID MEASURES (CONT.)

■ *Potential health effects:*

General Information: No special measures required.

**Eyes:** Extensive irrigation with water is required (at least 30 minutes) and seek medical advice. Do not allow victim to rub or keep eyes closed.

**Skin:** Immediately wash skin with plenty of water for at least 15 minutes. Get medical advice if irritation develops.

**Inhalation:** Remove to fresh air immediately. If breathing is difficult, get medical aid

**Swallowing:** Make victim drink plenty of water, but do not induce vomiting. Summon doctor.

**Dermal** In case of contact, immediately wash skin with soap and copious amounts of water. Remove

**Exposure:** clothing and call a physician.

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### **5. FIRE FIGHTING MEASURES**

#### ■ General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Use extinguishing media appropriate to the surrounding fire. Substance is non-combustible.

#### ■ Extinguishing Media:

Substance is non-combustible; use agent most appropriate to extinguish surrounding fire. Cool containers with flooding quantities of water until well after fire is out. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### **6. ACCIDENTAL RELEASE MEASURES**

#### ■ General Information:

Use proper personal protective equipment as indicated in Section 8.

#### ■ Spills/Leaks:

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

### **7. HANDLING AND STORAGE**

#### ■ Handling:

Wash thoroughly after handling. Wash hands before eating. Keep container tightly closed. Use with adequate ventilation.

#### ■ Storage:

Keep container closed when not in use. Store at 4°C

### **8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

■ *Engineering Controls:* Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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### Personal Protective Equipment:

<b>Respiratory protection:</b>	NIOSH/MSHA-approved respirator.
<b>Eye protection:</b>	Wear safety glasses or vented safety goggles.
<b>Hand protection:</b>	Required
<b>General Hygiene Measures:</b>	Wash thoroughly after handling. Wash contaminated clothing before use.
<b>Avoid inhalation:</b>	Keep tightly closed store in a cool dry place freeze.

**[NOTE:]** Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance o the protective clothing to chemicals should be ascertained with the respective supplier.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

- Color: colorless solution
- Form: Liquid
- pH: 2.5 – 3.0
- Solubility: Water
- Boiling point: 100°C

### 10. STABILITY AND REACTIVITY (CONT.)

- *Stability:* Stable at 4°C in closed containers under normal storage and handling conditions.
- *Incompatibilities with Other Materials:* Unknown.
- *Hazardous Decomposition Products:* Unknown.
- *Hazardous Polymerization:* Will not occur.

### 11. TOXICOLOGICAL INFORMATION

*Water:* Oral/rat, LD50 > 90 mL/kg

Further toxicological information:

**Eyes:** N/A

**Skin:** N/A

**Sensitization:** N/A

**Additional toxicological information:** N/A

- Materials may be irritating to mucous membranes and upper respiratory tract.

### 12. ECOLOGICAL INFORMATION:

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N/A

### **13. DISPOSAL CONSIDERATIONS:**

Dispose of in a manner consistent with federal, state, and local regulations

### **14. TRANSPROT INFORAMTION:**

#### **DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### **IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### **15. REGULATORY INFORMATION:**

N/A

### **16. OTHER INFORAMTION:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.