

# SAFETY DATA SHEET (SDS)



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**Product Name:** *TransIT-PRO®* Transfection Reagent

**Product Number:** MIR 5740, MIR 5750, MIR 6270

**Revision Date:** JUL 28 2020

**Print Date:** DEC 18 2020

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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-PRO*® Transfection Reagent

**1.1.2.Product Code:** MIR 5720, MIR 5730, MIR 5740, MIR 5750, Part of MIR 5700, 5760, 6225, 6260, and 6270

**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](mailto: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 damage (Category 1), H318

### 2.2. Label Elements:

**2.2.1.Product Name:**

*TransIT-PRO*® 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.

H318: Causes serious eye damage.

**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.

P310: Immediately call a POISON CENTER/doctor.

P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide 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:** None known.

**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	80	Flam. Liq. 2 H225 Eye Dam. 1 H318	GHS 02 GHS 05

### 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.

**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.

### **6.3. Methods and Materials for Containment and Cleaning Up:**

Absorb spillages onto sand, earth or any suitable adsorbent material. 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 protective gloves/protective clothing/eye protection/face protection.

### **7.2. Conditions for Safe Storage, Including Any Incompatibilities:**

Store in a well-ventilated place. Keep cool.

#### **7.2.1.Storage Temperature:** -20°C.

#### **7.2.2.Storage Life:** Stable under normal 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)
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USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
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:** Tightly fitting safety glasses with side shields.
- 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:

Alcohol

#### 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:**  
Calculation method (Rabbit, OECD Test Guideline 405): Causes serious eye damage.
- 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:** 30 June 2020

**16.2. Reason for Revision:** Change in address of supplier.

**16.3. Additional Information:** None.

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