

# SAFETY DATA SHEET (SDS)



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**Product Name:** *TransducelT™* Transduction Reagent

**Product Number:** MIR 6620

**Revision Date:** 03APR2024

**Print Date:** 23APR2024

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**Section 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product Identifier:**

**1.1.1.Product Name:** *TransducelT™* Reagent

**1.1.2.Product Code:** MIR 6620, Part of MIR 6650 and 6655

**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

Acute toxicity, Oral (Category 4), H302

**2.2. Label Elements:**

**2.2.1.Product Name:**

*TransducelT™* Reagent



**2.2.2.Hazard Pictogram(s):**

**2.2.3.Signal Word(s):**

Warning

**Hazard Statement(s):**

H302: Harmful if swallowed.

**2.2.4.Precautionary Statement(s):**

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P501: Dispose of contents/container to an approved waste disposal plant.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

**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/V	Hazard Statement(s)	Hazard Pictogram(s)
Hexadimethrine bromide	28728-55-4	1	Acute tox., Oral 4 H302	GHS 07

**Section 4. FIRST AID MEASURES****4.1. Description of First Aid Measures:**

**4.1.1. Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**4.1.2. Skin Contact:** Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Consult a physician.

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

**4.1.4. Ingestion:** Rinse mouth with water. Call a poison center and/or doctor.

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

May cause gastrointestinal irritation if ingested.

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

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:**

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:** -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:** 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:** 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:** 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:** Strong oxidizing agents.
- 10.6. **Hazardous Decomposition Products:** None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects:

- 11.1.1. **Acute Toxicity – Ingestion:** Hexadimethrine bromide, LD50, >1000 mg/kg (mouse)
- 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**

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:** 1 July 2020

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

**16.3. Additional Information:** None.

## Safety Data Sheet

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