

# Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** TRANSi PORT Cells (Transient Expression Cell Products)  
**Product code:** Multiple  
**Company name:** Genomembrane Co., Ltd.  
**Address:** 3F Ishikawa EMC Laboratory Bldg., 2-3-18 Namamugi, Tsurumi-ku, Yokohama, Kanagawa, Japan  
**Tel:** +81-45-508-2326  
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## 2. HAZARDS IDENTIFICATION

**GHS classification:** Specific target organ toxicity (single exposure): Category 2  
**Signal word:** Warning  
**GHS pictogram:** GHS08



**Hazard information:**  
H371: May cause damage to organs.

**Precautionary statements:**

P260: Do not breathe dust/fume/mist.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P308+P313: IF exposed or concerned, get medical attention.  
P501: Dispose of contents/container in accordance with local/national regulations.

**Other hazards:**

Contains mammalian cells. Handle in accordance with Biosafety Level 2 (BSL-2) practices.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture  
Mammalian cells (transient expression)  
Culture medium  
Dimethyl sulfoxide (DMSO) (CAS No.: 67-68-5): 10%

## 4. FIRST AID MEASURES

**Inhalation:** Move the affected person to fresh air.  
**Skin contact:** Wash with soap and water.  
**Eye contact:** Rinse cautiously with water for at least 15 minutes.  
**Ingestion:** Seek medical attention immediately.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water, carbon dioxide (CO<sub>2</sub>), foam, or dry chemical

## 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment (PPE) and disinfect with sodium hypochlorite.

## 7. HANDLING AND STORAGE

**Handling:** Handle under appropriate biosafety conditions.

**Storage:** Store in liquid nitrogen.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Use a biosafety cabinet.

Wear appropriate personal protective equipment, including gloves, safety goggles, and a lab coat.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Frozen suspension

**Color:** Colorless to pale yellow

## 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute toxicity:** No data available for the mixture. The following information is based on the properties of its component, dimethyl sulfoxide (DMSO):

- Oral LD50 (rat): 14,500 mg/kg
- Dermal LD50 (rat): 40,000 mg/kg
- Inhalation LC50 (rat, mist): >5.33 mg/L

(References: Risk Assessment Vol.13, Ministry of the Environment, Japan, 2015; SIDS, 2008)

**Skin corrosion/irritation:** No data available for the mixture. Based on available data for DMSO, not classified.

**Serious eye damage/eye irritation:** No data available for the mixture. Based on available data for DMSO, not classified.

**Respiratory or skin sensitization:** No data available for the mixture. Based on available data for DMSO, not classified.

**Germ cell mutagenicity:** No data available for the mixture. Based on available data for DMSO, not classified.

**Carcinogenicity:** No data available for the mixture. DMSO is not classified as carcinogenic by major regulatory agencies.

**Reproductive toxicity:** No data available for the mixture. Based on available data for DMSO, not classified.

**Specific target organ toxicity (single exposure):** May cause damage to organs.

This classification is based on the properties of DMSO.

**Specific target organ toxicity (repeated exposure):** No data available for the mixture. Based on available data for DMSO, not classified.

**Aspiration hazard:** No data available. Not expected to present an aspiration hazard based on available information.

### Additional information:

This product contains mammalian cells and should be handled as a potential biohazard (BSL-2).

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available for the mixture. The following information is based on its component, dimethyl sulfoxide (DMSO):

**Aquatic toxicity (acute):** Crustacean EC50: 6,830 mg/L / 24 hr

(Reference: Risk Assessment Vol.13, Ministry of the Environment, Japan, 2015)

**Persistence and degradability:** No data available for the mixture.

**Bioaccumulative potential:** No data available for the mixture.

Based on DMSO: log Pow = -1.35 (calculated). (Reference: ICSC, 2000)

**Mobility in soil:** No data available.

**Hazardous to the ozone layer:** No data available.

### 13. DISPOSAL CONSIDERATIONS

Dispose of as biohazardous waste in accordance with local regulations.

### 14. TRANSPORT INFORMATION

Not regulated as dangerous goods under applicable transport regulations.

### 15. REGULATORY INFORMATION

This product is subject to GHS classification due to the presence of DMSO.

### 16. OTHER INFORMATION

For research use only

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