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# Material Safety Data Sheet

Revision Date: 22-July-2022



## 1. Product and Company Information

Product Name        *TransDetect*® In Situ Fluorescein TUNEL Cell Apoptosis Detection Kit  
Cat. No.             FA201-01/02  
Company             TransGen Biotech Co., Ltd.  
Technical Phone    +86-400-898-0321  
Fax                    +86-10-57815011  
E-mail Address     trans@transgen.com.cn

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## 2. Composition

Chemical Name	CAS No.	Concentration or Concentration Range (w/w %)
Cacodylic acid 75-60-5 (1-5)	75-60-5	1-5

It is recommended to handle all chemicals with caution.

## 3. Hazards Identification

### Health Hazards

No harm

### Physical Hazards

No harm

### Environmental Hazards

Acute aquatic hazard                    Category 2  
Chronic aquatic hazard                 Category 2

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**Signal Word**

None

**Hazard Symbol****Hazard Statements**

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements****Precaution**

P273 - Avoid release to the environment

**Response**

P391 - Collect Spills

**Store**

Not applicable

**Disposal method**

P501 - Entrust the disposal of contents/containers to a qualified waste treatment plant

**Other hazards**

Not applicable

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## 4. First Aid Measures

Skin contact	Wash skin with water. No immediate medical attention is required.
Eye contact	Rinse carefully with water for a few minutes. Remove contact lenses if they are worn and easily accessible. continue rinsing
Ingestion	Not expected to present a significant ingestion hazard under expected normal conditions of use. If you feel unwell, seek medical attention.
Inhalation	Not expected to be an inhalation hazard under the expected normal conditions of use for this material. Consult a doctor if necessary.
Notes to physicians	Treat symptomatically.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media	Water spray, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry powder
Unsuitable extinguishing media	No information available

### Special dangers

Not known

### Firefighters' protective equipment and precautions

Standard Procedures for Responding to Chemical Fires

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## 6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation and wear personal protective clothing including protective clothing and safety glasses
Cleaning method	Use inert absorbent material to soak up spill.
Environmental precautions	Avoid discharge into ditches and waterways as much as possible

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## 7. Handling and Storage

Precautions for safe handling	Use required personal protective equipment. No special operating advice required
Conditions for safe storage	Store in a sealed package in a dry, cool and well-ventilated place. Keep in a properly labeled container. Protect from direct sunlight. Store in accordance with local regulations.
Specific use	For research use only. Not for diagnostic use.

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## 8. Exposure Controls/Personal Protection

### Control parameter

MAC(mg/m <sup>3</sup> )	No standards available
PC-TWA(mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
PC-STEL(mg/m <sup>3</sup> )	No standards available
TLV-C(mg/m <sup>3</sup> )	No standards available
TLV-TWA(mg/m <sup>3</sup> )	No standards available
TLV-STEL(mg/m <sup>3</sup> )	No standards available

### Exposure controls

Personal protective equipment	
Respiratory protection	In case of insufficient ventilation, use respirators with their components tested and approved under appropriate government standards
Hand Protection	Wear appropriate gloves, Glove material: Compatible chemical resistant gloves.
Eye Protection	Tightly sealed goggles
Skin and Body Protection	Wear appropriate protective clothing
Hygiene Measures	Operate in accordance with good industrial hygiene and safety practice

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Environmental exposure control

Prevent product from entering drains. Avoid contaminating the groundwater system.

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## 9. Physical and Chemical Properties

### General Information

Form	liquid
Solubility in water	Soluble
pH	7.2
Others	No data available

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## 10. Stability and Reactivity

Reactivity	Not known
Stability	Stable under normal storage conditions
hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous polymerization	Hazardous polymerization does not occur.
Decomposition products	No data available

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## 11. Toxicological Information

### Information on toxicological effects

Acute Toxicity	No data available
Oral-rat LD50 (mg/kg)	644
Dermal-rabbit LD50 (mg/kg)	No data available
Inhalation-rat LC50 (mg/m <sup>3</sup> )	>6.9
Subcutaneous-rat LD50 (mg/kg)	No data available
Intravenous-rat LD50 (mg/kg)	No data available
Peritoneal cavity-rat LD50 (mg/kg)	No data available
Oral-mouse LD50 (mg/kg)	No data available

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Dermal- mouse LD50 (mg/kg)	No data available
Intravenous-mouse LD50 (mg/kg)	No data available
Peritoneal cavity-mouse LD50 (mg/kg)	No data available

### **Health effects of routine exposure**

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Acute Toxicity	Data are conclusive but insufficient for classification
Skin corrosion/ irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin allergy	Data are conclusive but insufficient for classification
Specific target organ toxicity(STOT) – single exposure	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – repeated exposure	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

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## **12. Ecological Information**

Ecotoxicity	The environmental impact of this product has not been fully studied
Mobility in soil	No data available
In vivo degradation	No data available
Bioaccumulation	No data available

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## **13. Disposal Considerations**

Waste generation should be avoided or minimized as much as possible. Empty containers or liners may retain some product residue. This substance and its container must be

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disposed of according to approved disposal techniques. National and local regulations should be consulted prior to disposal of this product, its solutions, or any by-products.

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## 14. Transport Information

UN number	3082
UN shipping name	Environmentally hazardous substance, liquid,
Hazard class	n.o.s,(Cocadylic acid)
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Packing group	III
Packing method	No data available
Environmental hazards	Yes
Transportation considerations	Package should be intact upon departure. Loading should be handled carefully. During transportation, prevent the containers from leakage, collapse, fall or damage. Transportation combined with oxidants, edible chemicals, etc. is strictly prohibited. It should be protected from exposure to sun light, rain and high temperature during transportation. The vehicle should be thoroughly cleaned after transportation. Road transportation must follow the prescribed route.

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## 15. Regulatory Information

The following laws, regulations and standards have made corresponding provisions on the safe use, storage, transportation, loading and unloading , classification and marking of chemicals: The Production Safety Law of the People's Republic of China (adopted at the 27th meeting of the Standing Committee of the Ninth People's Congress on June 29, 2002); The Environmental Protection Law of the People's Republic of China (adopted at the 11th meeting of the Standing Committee of the Seventh National People's Congress on December 26, 1989)

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## 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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The above information was acquired by diligent search and/or investigation. These recommendations are based on prudent professional judgment. This information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. **Since the Company cannot control the actual methods, quantities, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this MSDS does not constitute a warranty of marketability or suitability for any particular purpose, expressed or implied.**

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End of Safety Data Sheet