

## Safety Data Sheet

### SECTION 1 Identification of the sub stance/ mixture and of the company/ undertaking

#### 1. 1 Product identifier

Product name : TOROIVD® RTase Screening Kit

Product Code: RRM-804FD

#### 1.2 Relevant identified uses of the sub stance or mixture and uses advised against

Recommended use and restrictions on use: Realtime PCR kit

#### 1.3 Detail of the supplier of the safety data sheet

Company: TOROIVD TECHNOLOGY COMPANY LIMITED.

Address: Building # 10, 588 Tianxiong Road, Shanghai International Medical Zone,  
Pudong, Shanghai, China. 201318

Tel/Fax: +86-21-68030217

#### 1.4 Emergency telephone number

+86-21-68030217 (9:00~ 17:00 Beijing Time)

### SECTION 2 Hazard s identification

#### 2. 1 Classification of sub stance or mixture

Not classified or classification not possible

#### 2.2 Label element s

No label elements are required.

#### 2.3 Other harzard s

Few adverse human health effects are anticipated. Glycerol whose flash point 160°C and Additive1-2 whose flash point 131°C are contained.

### SECTION 3 Composition / in formation on Ingredient s

#### 3. 1 Ch emical Product

Substance or Mixture : Mixture

#### 3.2 Mixture

Chemical Nature: Freeze-dried product of enzyme, trehalose, nucleotide base sequence and other compounds.

#### Harzadous component s :

Common Chemical : d-trehalose anhydrou

Synonyms: d-trehalose anhydrou

CAS No.: 99-20-7

EC No. : 202-739-6

Classification : Not classified

Concentration : <10%

Common Chemical : Additive1

Synonyms: -

CAS No.: -

Classification : Not classified

Concentration : 15-20%

### SECTION 4 First aid measures

#### 4. 1 Description of first aid measures

Inhalation : In case of irritation by inhaling this product, remove person to fresh air and keep comfortable for

breathing. Seek medical attention.

Skin Contact : Wash with clean water, immediately.

Take off contaminated clothing and wash before reuse.

If skin irritation or rash occurs: Get medical advice/ attention.

Eye Contact Ingestion: Rinse cautiously with water for several minutes.

Rinse mouth. Induce vomiting.

If indisposition continues, seek medical attention.

#### **4.2 Most important symptoms and effects, both acute and delayed**

No information available.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

### **SECTION 5 Firefighting measures**

#### **5.1 Extinguishing media**

Water, Carbon Dioxide, Foam, Dry Chemical Powder

#### **5.2 Special hazards arising from the substance or mixture**

Exposure to decomposition products may be a hazard to health. Toxic gas (carbon monoxide, nitrogen oxides) and fumes may be generated.

#### **5.3 Advice for firefighters**

Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire.

### **SECTION 6 Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment and avoid eye/skin contact and inhalation.

#### **6.2 Environmental precautions**

Avoid disposition to the environment.

#### **6.3 Methods and material for containment and cleaning up**

Use cloth, paper, or anything similar to soak up to the solution leaking out of the container.

#### **6.4 Reference to other sections**

For personal protection see section 8.

### **SECTION 7 Handling and storage**

#### **7.1 Precautions for safe handling**

Technical Measures : Avoid substance contact. Wear protective equipment and avoid contact with eyes and skin.

Handle with ventilation and local

Precautions: Keep the handling area always clean.

Hygiene measures: Wash hands thoroughly after handling.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Storage Conditions: Store at about -20°C

Packaging Materials : Store in the original package

#### **7.3 Specific end uses (s)**

Laboratory chemicals

### **SECTION 8 Exposure controls/ personal protection**

#### **8.1 Control Parameter**

##### **Occupational Exposure Limits**

-

JSOH OEL: Not Established

OSHA PEL: Total dust: 15mg/m<sup>3</sup>TWA; Respirable fr.: 5mg/m<sup>3</sup>TWA

DFG MAK : Inhalable fraction: 200 mg/m<sup>3</sup> ; Peak limitation category: I(2)

## 8.2 Exposure controls

### Appropriate engineering controls

Set up good ventilation and exhaust system in the work area.

### Personal protective Equipment

Respiratory Protection: Wear a dust mask.

Hand Protection: Chemical safety gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Long sleeves to prevent contact with skin.

## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State: Liquid

Colour: Colourless

Odour: None

pH: 7.0-9.0

Flash Point: No flammability due to aqueous solution, but glycerol whose flash point 160°C and Additive1 -2 whose flash point 131°C may stay behind after volatilization.

Density : 1.0- 1.3(g/cm<sup>3</sup>)

Solubility : Soluble in water.

### 9.2 Other data

None

## SECTION 10 Stability and reactivity

### 10.1 Reactivity

No hazardous reaction if stored and applied as directed.

### 10.2 Chemical stability

Stable at -20±5°C.

### 10.3 Possibility of hazardous reactions

Nothing particular

### 10.4 Conditions to avoid

High temperature, ignition sources

### 10.5 Incompatible materials

Strong acids, strong alkalines and strong oxidizers

### 10.6 Hazardous decomposition products

Not available

## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

Acute Toxicity : Not available

Skin corrosion: May cause mild skin irritation.

Serious eye damage/irritation: May cause eye irritation.

### Toxicological information on the component of this product

d-trehalose anhydrous

Oral-rat: LD50 12.6g/kg

Acute toxicity : Dermal-rabbit: LD50 > 10g/kg

Inhalation-rat: LC50>570mg/m3 ( 1hr)

Skin corrosion: -----  
 Eye damage/ irritation : Irritating to eyes.  
 Additive1  
 Skin corrosion: May cause irritate skin.  
 Eye damage/ irritation : May cause irritate to eyes.

## **SECTION 12 Ecological information**

### **12.1 Toxicity**

d-trehalose anhydrous

Oral-rat: LD50 12.6g/kg

Acute toxicity : Dermal-rabbit: LD50 > 10g/kg  
 Inhalation-rat: LC50>570mg/m3 ( 1hr)

Skin corrosion: -----  
 Eye damage/ irritation : Irritating to eyes.

### **12.2 Persistence and degradability**

Glycerol, enzyme, antibody, and deoxynucleotide are biodegradable.

### **12.3 Bioaccumulative potential**

Glycerol, enzyme, antibody, and deoxynucleotide are not bioaccumulative.

### **12.4 Mobility in soil**

Soluble in water and diffusible into water environment.

### **12.5 Results of PBT and vPvB assessment**

None

## **SECTION 13 Disposal considerations**

### **13.1 Waste treatment methods**

Product : Dispose of in accordance with all applicable local and national laws and regulations.

Contaminated Packaging : Dispose of in accordance with all applicable local and national laws and regulations.

## **SECTION 14 Transport information**

### **14.1 UN number**

No

### **14.2 UN proper shipping name**

No

### **14.3 Transport hazard class(es)**

No

### **14.4 Packing group**

No

### **14.5 Environmental hazards**

Not classified as environmental hazards.

### **14.6 Special precautions for user**

To prevent packages from breaking, handle with care.

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

## **SECTION 15 Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

REACH - Authorization List of Substances of Very High Concern for Authorisation

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants

Not applicable

Seveso III: Directive 2012/ 18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

## **15.2 Chemical Safety Assessment**

No data available

Follow all of the laws and regulations in your respective country.

## **SECTION 16 Other information**

### **Full text of H -**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H302: Harmful if swallowed.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

### **Full text of other abbreviations**

Skin Irrit. : Skin irritation

Eye Irrit. : Eye irritation

Acute Tox.: Acute toxicity

### **Notice**

STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic toxicity

The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOROIVD makes no warranty and assumes no liability whatsoever in connection with any use of this information.

The SDS is subject to revision as new information becomes available.