

*SuperPrep*<sup>TM</sup> II Cell Lysis Kit for qPCR

First issue : Dec. 13, 2016



SDS No.1347F

## Safety Data Sheet

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product ***SuperPrep*<sup>TM</sup> II Cell Lysis Kit for qPCR**

Product Code SCQ-501

#### SUPPLIER

Name TOYOBO Co., Ltd.  
 Address 2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN  
 Department Life Science Department  
 Emergency Telephone No. +81-6-6348-3786  
 Fax No. +81-6-6348-3833  
 Recommended use and restrictions on use Cell lysis for qPCR (Reagents for research)

### 2 HAZARDS IDENTIFICATION

Most Important Hazards gDNA Remover and RNase Inhibitor contain glycerol and may cause eye and skin irritation. Lysis Solution contains detergent and may cause eye irritation.

Specific Hazard Not available

#### GHS Classification

Hazard class and category

		gDNA Remover	RNase Inhibitor	Lysis Solution
Physical Hazards	Flammable liquid	Not classified	Not classified	Not classified
Health Hazards	Skin corrosion	Category 3	Category 3	Not classified
	/Irritation			
	Serious eye damage /Eye	Category 2B	Category 2B	Not classified
Environmental Hazards		Classification not possible	Classification not possible	Classification not possible

Label elements gDNA Remover  
RNase Inhibitor

Pictogram or symbol -

Signal word Warning

Hazard statement Causes mild skin irritation  
Causes eye irritation

#### Precautionary statement

Prevention Wash hands thoroughly after handling

Response If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Mixture)	Mixture		
Chemical Nature	Aqueous solution		
Parts Name	Main Component	CAS No.	
Lysis Solution	Tris(hydroxymethyl)aminomethane	77-86-1	
	Detergent	-	
	Magnesium chloride	7786-30-3	
	Calcium Chloride	10043-52-4	
	Dithiothreitol	3483-12-3	
	Proteinase K	39450-01-6	
gDNA Remover	Glycerol	56-81-5	
	Deoxyribonuclease	9003-98-9	
RNase Inhibitor	Glycerol	56-81-5	
	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid	7365-45-9	
	RNase Inhibitor	-	
Components Contributing to the Hazard			
Common Chemical Name (or Generic Name)	Detergent	Glycerol	4-(2-hydroxyethyl)-1-piperazineethane sulfonic acid
Synonyms	-	Glycerin	HEPES
Chemical formula	-	CH <sub>2</sub> (OH)CH(OH) )CH <sub>2</sub> (OH)	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
CAS No.	-	56-81-5	7365-45-9
Concentration	< 0.1%	approximately 50%	0.5%

### 4 FIRST-AID MEASURES

Inhalation	In case of irritation by inhaling this product, move affected person to fresh air and await recovery. If irritation persists, seek immediate medical attention.
Skin Contact	Wash with plenty of clean water, immediately.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
Ingestion	Try to get the affected person to vomit as much as possible. Seek medical attention, immediately.



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### 5 FIRE-FIGHTING MEASURES

Extinguishing Media	Water, Carbon Dioxide, Foam, Dry Chemical Powder
Protection of fire-fighters	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.

### 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective equipments and avoid eye/skin contact and inhalation.
Environmental Precautions	Avoid disposition to the environment.
Methods for Cleaning up	Use cloth, paper, or anything similar to soak up to the solution leaking out of the container. Take up under vacuum using dust collecting filter.

### 7 HANDLING AND STORAGE

#### HANDLING

Technical Measures	Wear protective equipments and avoid contact with eyes and skin. Handle with ventilation and local exhaust system.
Precautions	Avoid substance contact. After handling, wash hands completely.
Safe Handling Advice	Keep the handling area always clean.

#### STORAGE

Proper Storage Conditions	Keep tightly closed and store at less than -20°C
Packaging Materials	Store in the original package

### 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING MEASURES	Set up good ventilation and exhaust system in the work area. Provide washing facilities nearby.
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Control Parameter	Detergent	Glycerol	4-(2-Aminoethyl) benzenesulfonyl fluoride hydrochloride
Limit Values			
JSOH OEL	not established	not established	not established
ACGIH TLV	not established	10mg/m <sup>3</sup>	not established
OSHA PEL	not established	total dust: 15mg/m <sup>3</sup> TWA respirable fr.: 5mg/m <sup>3</sup> TWA	not established

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection	Wear a dust mask when needed.
Hand Protection	Wear chemical safety gloves.
Eye Protection	Wear protective eyeglasses or chemical safety goggles.
Skin and Body Protection	Wear lab coat when needed.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid. Lysis Solution freeze at -20°C.
Colour	Colourless
Odour	None
pH	6.0-9.0
Flash Point	No flammability due to aqueous solution
Explosion limit	Not explosive
Density	1.0~1.2(g/cm <sup>3</sup> )
Solubility	Soluble in water

### 10 STABILITY AND REACTIVITY

Stability	Stable at below -20°C.
Possible Hazardous	Nothing particular
Reactions	
Conditions to Avoid	High temperature, ignition sources, direct sunlight
Material to Avoid	Strong oxidizer, strong reducers
Hazardous Decomposition Product	Not available

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	Not Available	
Local Effects	May cause eye and skin irritation.	
Toxicological information on the component of this product	Detergent	Glycerol
Skin corrosion/Irritation	-	rabbit:500mg/24 hr:Mild
Serious eye damage/Eye irritation	Rabbit,undilluted, OECD405 : Category 1	rabbit:500mg/24 hr:Mild

### 12 ECOLOGICAL INFORMATION

Mobility	Soluble in water and diffusible into water environment.
Persistence/Degradability	Not available
Bioaccumulation	Not available

### 13 DISPOSAL CONSIDERATIONS

Waste from Residues	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.

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### 14 TRANSPORT INFORMATION

International Regulations

UN Classification Number Not classified

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

Specific Precautions

To prevent packages from breaking, handle with care.

### 15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

### 16 OTHER INFORMATION

Notice

This product is sold for research purposes only . It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The information shall not be taken as being all inclusive and is to be used only a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The SDS is subject to revision as new information becomes available.