



## Safety Data Sheet

### 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name **SuperPrep™ Cell Lysis Kit for qPCR**  
Product Code SCQ-201  
SUPPLIER  
Name TOYOBO Co., Ltd.  
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Department Life Science Department  
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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 /Irritation	Category 3	Category 3	Not classified
	Serious eye damage /Eye irritation	Category 2B	Category 2B	Not classified
Environmental Hazards		Classification not possible	Classification not possible	Classification not possible

Stop Solution

Physical Hazards	Flammable liquid:	Not classified
Health Hazards	Skin corrosion /Irritation	Classification not possible
	Serious eye damage /Eye irritation	Classification not possible
Environmental Hazards		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			
	Poly(oxyethylene) octylphenyl ether	9036-19-5			
	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		
	Stop Solution	Tris(hydroxymethyl)aminomethane	77-86-1		
		Ethylenebis(oxyethylenenitrilo)tetraacetic acid	67-42-5		
4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride		30827-99-7			
RNase Inhibitor	Dithiothreitol	3483-12-3			
	Glycerol	56-81-5			
	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid RNase Inhibitor	7365-45-9 -			
Components Contributing to the Hazard					
Common Chemical Name (or Generic Name)	Poly(oxyethylene) octylphenyl ether	Glycerol	Ethylenebis(oxye thylenenitrilo)tet raacetic acid	4-(2-Aminoethyl) benzenesulfonyl fluoride hydrochloride	
Synonyms	Triton X-114	Glycerin	EGTA	AEBSF	
Chemical formula	$(C_2H_4O)_n C_{14}H_{22}O$	$CH_2(OH)CH(OH)CH_2(OH)$	$C_{14}H_{24}N_2O_{10}$	$NH_2CH_2CH_2C_6H_4SO_2F$	
CAS No.	9036-19-5	56-81-5	67-42-5	30827-99-7	
Concentration	0.1%	approximately 50%	2%	0.1%	
Common Chemical Name (or Generic Name)	4-(2-hydroxyethyl)- 1-piperazineethane sulfonic acid	Poly(oxyethylene) nonylphenyl ether			
Synonyms	HEPES	Nonidet P-40			
Chemical formula	$C_8H_{18}N_2O_4S$	Not specified			
CAS No.	7365-45-9	9016-45-9			
Concentration	0.5%	< 0.005%			

### 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.

#### Control Parameter

Limit Values	Poly(oxyethylene) octylphenyl ether	Glycerol	Ethylenebis(oxy 4-(2-Aminoethyl) thylenenitrilo)tet benzenesulfonyl raacetic acid fluoride
JSOH OEL	not established	not established	not established not established
ACGIH TLV	not established	10mg/m <sup>3</sup>	not established not established
OSHA PEL	not established	total dust: 15mg/m <sup>3</sup> TWA respirable fr. : 5mg/m <sup>3</sup> TWA	not established 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 and Stop 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 explosible
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	Poly(oxyethylene) octylphenyl ether      Glycerol
Skin corrosion/Irritation	-      rabbit:500mg/24 hr:Mild
Serious eye damage/Eye irritation	rabbit: Moderate irritation (Result of Hazard Assessment Report 2001-42(2002) conducted by Chemical Evaluation and Research Institute      rabbit:500mg/24 hr:Mild

### 12 ECOLOGICAL INFORMATION

Mobility	Soluble in water and diffusible into water environment.
Persistence/Degradability	Not available
Bioaccumulation	Not available
Ecotoxicological information on the components of this product	Poly(oxyethylene) octylphenyl ether
Acute aquatic toxicity (LC50)	Algae (Selenastrum)-0.21mg/l-96h (Result of Hazard Assessment Report conducted by Ministry of the Environment and Chemical Evaluation and Research Institute in Japan-2006)

### 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

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 SDS is subject to revision as new information becomes available.