

SYBR[®] Green Realtime PCR Master Mix First issue : Jun. 25, 2014 SDS No.884F

Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name	SYBR [®] Green Realtime PCR Master Mix
Product Code	QPK-201,201T,209CH
SUPPLIER	
Name	TOYOBO Co., Ltd.
Address	2-2-8 Dojima Hama Kita-ku Osaka, 530-8230 Japan
Department	Biotech support Department
Emergency Telephone No.	+81-6-6348-3786
Fax No.	+81-6-6348-3833
Recommended use and	Master Mix for Realtime PCR
restrictions on use	

2 HAZARDS IDENTIFICATION

Most Important Hazards	Few adverse human health effects are anticipated. Glycerol
	whose flash point 160°C is contained.
Specific Hazard	Not available
GHS classification	Classification not possible

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product N	Iixture	
(Substance/Mixture)		
Chemical Nature A	queous solutions of enzyme	, antibody and other compounds.
Main components	CAS No.	Concentration
	(EC No.)	
Taq DNA polymerase	(EC 2.7.7.7)	<0.1%
Anti-Taq antibodies	-	<0.1%
(monoclonal antibodv)		
Bovine Serum Albumin	-	<0.1%
Glycerol	56-81-5	Ca. 2%
Tris(hydroxymethyl)	77-86-1	<1%
aminomethane		
Magnesium chloride	7791-18-6	<1%
Potassium chloride	7447-40-7	<1%
SYBR [®] Green I	$163795 \cdot 75 \cdot 3$	<0.001%
ROX reference dye	-	<0.001%
deoxyadenosine 5'triphospha	ate 1927-32-7	<1%
deoxycytidine 5'triphosphate	e 102783-51-7	
deoxyguanosine 5'triphosph	ate 93919-41-6	
deoxythymidine 5'triphosph	ate 18423-43-3	
Components Contributing to t	he Hazard	
Common Chemical Name	Glycerol	
Synonyms	Glycerin	
Chemical formula	$CH_2OHCHOHCH_2$	
CAS No.	56-81-5	
Concentration	2%	



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4 FIRST-AID MEASURES	
Inhalation	In case of irritation by inhaling this product, move affected person to fresh air and await recovery. Call a POISON CENTER or doctor if you feek unwell.
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
T	eye irritation persists: Get medical advice/attention
Ingestion	Try to get the affected person to vomit as much as possible.
	Seek medical attention, immediately.

5 FIRE-FIGHTING MEASURES

Extinguishing MediaWater, Carbon Dioxide, Foam, Dry Chemical PowderProtection of fire-fightersFire-fighting should be done from the windward side of fireFire-fighters should wear proper protective equipment in
case of large scale fire.

6 ACCIDENTAL RELEASE MEASURES

Personal PrecautionsWear protective equipments and avoid eye/skin contact and inhal
Avoid disposition to the environment.Methods for Cleaning upUse 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. Avoid substance contact. After handling, wash hands
	completely.
Precautions	Handle with ventilation and local exhaust system.
Safe Handling Advice	Keep the handling area always clean.
STORAGE	
Proper Storage Conditions	Store at -20°C. If it is for a few days, store at 4°C.
Packaging Materials	Store in the original package



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8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING MEASURES

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

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Control Parameter	
Limit Values	Glycerol
JSOH OEL	not established
ACGIH TLV	10 mg/m 3
OSHA PEL	total dust: 15mg/m ³ TWA
	respirable fr.: 5mg/m ³ TWA

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid. SYBR [®] Green Realtime PCR Master Mix freezes at
	less than -20°C.
Colour	very pale red
Odour	none
Hq	6.0-9.0
Flash Point	Not flammable due to aqueous solution, but glycerol whose
	flash point 160°C may stay behind after volatilization.
Explosion limit	Not explosible
Density	$1.0-1.2(g/cm^3)$
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 acids, strong alkalines and strong oxidizers
Hazardous Decomposition	Not available
Product	

11 TOXICOLOGICAL INFORMATION

Acute ToxicityNot availableLocal EffectsMay cause eye and skin irritation.Toxicological information on the component of this productGlycerolAcute toxicity (LD50)Oral-mouse: 4090mg/kgOral-rat: 12.6g/kg



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12 ECOLOGICAL INFORMATION

Soluble in water and diffusible into water environment.
Glycerol, enzyme, antibody, and deoxynucleotide are
biodegradable.
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.

14 TRANSPORT INFORMATION

International Regulations

UN Classification Number Not classified

Follow all of the laws and regulations in your respectiveSpecific PrecautionsTo 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.