



THUNDERBIRD™ SYBR™ qPCR Mix
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SDS No.1061F

Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name **THUNDERBIRD™ SYBR™ qPCR Mix**
Product Code **QPS-201, QPS-201T**

SUPPLIER

Name **TOYOBO Co., Ltd.**
Address **Osaka Umeda Twin Towers South,
1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan**
Department **Biotechnology Overseas Sales and Marketing Department**
Emergency Telephone No. **+81-6-6348-3846**
Fax No. **+81-6-6348-3833**
Recommended use and restrictions on use **realtime PCR kit(Reagent for research)**

2 HAZARDS IDENTIFICATION

Most Important Hazards **Few adverse human health effects are anticipated. 1,3-propanediol whose flash point 131°C is contained.**
Specific Hazard **Not available**
GHS classification **Classification not possible**

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product **Mixture**
(Substance/Mixture)
Chemical Nature **Aqueous solutions of enzyme, antibody and other compounds.**
Parts Name **Main components** **CAS No.
(EC No.)**
**THUNDERBIRD™
Probe qPCR Mix** **Tris(hydroxymethyl) aminomethane** **77-86-1**
deoxyadenosine 5'-triphosphate **1927-31-7**
deoxycytidine 5'-triphosphate **102783-51-7**
deoxyguanosine 5'-triphosphate **93919-41-6**
deoxythymidine 5'-triphosphate **18423-43-3**
Additive **Nondisclosure**
Taq DNA polymerase **(EC 2.7.7.7)**
Anti-Taq antibodies **-**
(monoclonal antibody)
SYBR™ Green I **163795-75-3**
50x ROX Reference Dye **ROX reference dye** **-**
Components Contributing to the Hazard
Common Chemical Name **Additive**
Synonyms **Nondisclosure**
Chemical formula **Nondisclosure**
CAS No. **Nondisclosure**

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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 feel 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 eye irritation persists: Get medical advice/attention
Ingestion	Try to get the affected person to vomit as possible. Seek medical attention, immediately.

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 to avoid eye/skin contact and inhalation.
Environmental Precautions	High concentrated waste fluid should not be directly discharged into rivers.
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. 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 -20°C.
Packaging Materials	Store in the original package

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8 EXPOSURE CONTROLS/ PERSONAL PROTECTION ENGINEERING MEASURES

Control Parameter		Additive
Limit Values		
JSOH OEL		not established
ACGIH TLV		not established
OSHA PEL		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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid. THUNDERBIRD™ Probe qPCR Mix and 50x ROX Reference Dye freeze at less than -20°C.
Colour	colourless
Odour	none
pH	7.0-9.0
Flash Point	Not flammable due to aqueous solution, but additive whose flash point 131°C may stay behind after volatilization.
Explosion limit	Not explosive
Density	1.0-1.2(g/cm ³)
Solubility	Soluble in water.

10 STABILITY AND REACTIVITY

Stability	Stable at below -20°C.
Possible Hazardous Reactions	Nothing particular
Conditions to Avoid	High temperature, ignition sources, direct sunlight
Material to Avoid	Strong acids, strong alkalines and strong oxidizers
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	
	Additive
Acute toxicity (LD50)	Oral-mouse: 4773mg/kg

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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.

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.
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