



miRNAAssay™ qPCR RT Master Mix
 First issue : May. 25, 2023
 Revised : Jun. 10, 2024
 SDS No.2428F

Safety Data Sheet

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	miRNAAssay™ qPCR RT Master Mix
Product Code	MIR-101, 101T
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	cDNA Synthesis Kit for Real-Time PCR (Reagent for research)

2 HAZARDS IDENTIFICATION

Most Important Hazards	Few adverse human health effects are anticipated.
Specific Hazards	Not available
GHS Classification	Classification not possible

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Mixture)	Mixture
Chemical Nature	Aqueous solution of enzyme, substrate, etc.
Parts Name	Main components
5×RT Master Mix	Tris(Hydroxymethyl)aminomethane
	Deoxyadenosine triphosphate
	Deoxycytidine triphosphate
	Deoxyguanosine triphosphate
	Deoxythymidine triphosphate
	Polyoxyethylene (20) sorbitan monolaurate
	Glycerol
	Reverse transcriptase
	Ribonuclease Inhibitor
5×RT Master Mix	(the same as 5×RT Master Mix but no Reverse transcriptase
no-RT Control	contained)
Nuclease-free Water	Water
Components Contributing to the Hazard	
Common Chemical Name (or Generic Name)	Glycerol
Synonyms	Glycerin
Contained Parts	5×RT Master Mix, 5×RT Master Mix no-RT Control
Chemical formula	CH ₂ OHCHOHCH ₂ OH
CAS No.	56-81-5
Concentration	40%



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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. If irritation persists, seek immediate medical attention.
Skin Contact	Wash with clean water, immediately.
Eye Contact	Flush eyes with clean water for more than 15 minutes, and seek medical attention.
Ingestion	Induce vomiting. If indisposition continues, seek medical attention.

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 gear to 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 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 with clean water.
Safe Handling Advice	Good laboratory technique should be used when handling this product.

STORAGE

Safe Storage Conditions	Keep away from fire and heat sources. Keep away from wind, rain and direct Store away from strong oxidizers. Keep container tightly closed. Store at below -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.

Control Parameter

Limit Values

Glycerol

JSOH	OEL	Not established
ACGIH	TLV	—
OSHA	PEL	total dust:15mg/m ³ TWA respirable fr.: 5mg/m ³ TWA

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.



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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	5×RT Master Mix, 5×RT Master Mix no-RT Control: Liquid at -20°C.
Colour	None
Odour	None
pH	6.0-9.0
Flash Point	No flammability due to aqueous solution, but glycerol whose flash point 160°C may stay behind after volatilization 5×RT Master Mix, 5×RT Master Mix no-RT Control.
Boiling Point	Not available
Melting Point	Not available
Decomposition Temperature	Not available
Density	None
Solubility	Soluble in water

10 STABILITY AND REACTIVITY

Stability	Stable at below -20°C.
Possible Hazardous Reactions	None
Conditions to Avoid	High temperature, ignition sources, direct sunlight
Material to Avoid	Strong oxidizers, strong reducers
Hazardous Decomposition Product	Not available

11 TOXICOLOGICAL INFORMATION

Acute Toxicity	Not available
Local Effects	May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

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

Specific Precautions To prevent packages from breaking, handle with care.
When transporting, transport at temperatures below -20°C.

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.