Quick Taq™ HS DyeMix

First issue : Jan. 9, 2018
SDS No.1522F

Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name	Quick Taq™ HS DyeMix
Product Code	DTM-101
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 restrictions on use	PCR kit for DNA amplification

2 HAZARDS IDENTIFICATION

Important Hazards	Few adverse human health effects are anticipated.
GHS Classification	
Hazard class and category	
Physical Hazards	Not Applicable
Health Hazards	
Acute toxicity - oral	Not classified
Skin corrosion/Irritation	Not classified
Serious eye damage/Eye irritation	Not classified
Environmental Hazards	Not Applicable

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Preparation)	Mixture
Chemical Nature	Aqueous solution of enzyme, substrate, etc.

Main components	CAS No. (EC NO.)
Tris(Hydroxymethyl)aminomethane	77-86-1
Magnesium sulfate	7487-88-9
Deoxyadenosine triphosphate	1927-31-7
Deoxycytidine triphosphate	102783-51-7
Deoxyguanosine triphosphate	93919-41-6
Deoxythymidine triphosphate	18423-43-3
DNA polymerase	(EC 2.7.7.7)
Monoclonal antibody	-
Glycerol	56-81-5
Poly(oxyethylene) nonylphenylether	9016-45-9

Components Contributing to the Hazard

Common Chemical Name (or Generic Name)	Glycerol	Poly(oxyethylene) Nonylphenylether
Synonyms	Glycerin	Nonidet P-40
Contained Parts:Percentage	<5%	<0.1%
Chemical formula	$CH_2OHCHOHCH_2OH$	$)(C_2H_4O)_n$-C_6H_4-C_9H_{19}
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4 FIRST-AID MEASURES

Inhalation	Remove person to fresh air. Call a doctor if you feel unwell and get medical advice/ attention.
Skin Contact	Wash with clean water, immediately. Call a doctor if you feel irritation
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	If swallowed: Rinse mouth. Do NOT induce vomiting. If indisposition continues, get medical advice/ attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media	Water, Carbon Dioxide, Foam, Dry Chemical Powder
Specific extinguishing meth	Fire-fighting should be done from the windward side of fire area.
Protection of fire-fighters	Fire-fighters should wear proper protective equipment in case of large

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective equipment 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.
Safe Handling Advice	Always keeping things tidy and in order, and keep laboratory clean.
Hygiene measures	After handling, wash hands with clean water.

STORAGE

Technical Measures	Store in the laboratory bottle
Storage Conditions	Store at about -20°C
Incompatible Products	Oxidizers
Packaging Materials	Store in the original package.

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

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

Control Parameter

Limit Values	Glycerol	Poly(oxyethylene) Nonylphenylether
JSOH OEL	Not established	Not established
ACGIH TLV	10mg/m^3	Not established
OSHA PEL	total dust:15mg/m^{3}TWA respirable fr.: 5mg/m^{3}TWA	Not established

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	liquid
Colour	None
Odour	None
pH	7.0-9.0
Flash Point	No flammability due to aqueous solution, but glycerol whose flash point 160°C may stay behind after volatilization.
Boiling Point	Classification not possible
Melting Point	Classification not possible
Decomposition Temperature	Classification not possible
Specific Gravity	1.0-1.2
Solubility	Soluble in water

10 STABILITY AND REACTIVITY

Chemical stability and hazardous reactions	Stable at -20°C
Conditions to Avoid	Strong heat and Direct sunlight
Incompatible materials	strong oxidizers and strong reducers
Hazardous Decomposition Product	No information available

11 TOXICOLOGICAL INFORMATION

Acute Toxicity	Classification not possible
Skin corrosion/ irritation	May cause mild skin irritation.
Serious eye damage/ eye irritation	May cause mild eye irritation.
Specific target organ	May cause mild respiratory tract irritation.

Toxicological information on the component of this product

	Glycerol	Poly(oxyethylene) Nonylphenylether
Acute toxicity (LD50)	Oral-mouse: 4090mg/kg Oral-rat: 12.6g/kg	Oral-mouse: Oral-rat:
Skin corrosion/Irritation	Category 3	Category 3
Serious eye damage/Eye irritation	Category 2B	Category 2A

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence/Degradability	Poly(oxyethylene) nonylphenylether isn't biodegradable. Enzyme, protein and glycerol are biodegradable.
Bioaccumulative potential	Not available
Mobility in soil	Soluble in water and diffusible

13 DISPOSAL CONSIDERATIONS

Waste from Residues	Dispose of in accordance with all applicable local and national laws and
Contaminated Packaging	Dispose of in accordance with all applicable local and national laws and

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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. Store at about -20°

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

Notice	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.