

THUNDERBIRD TM Next SYBR QPCR Mix

First issue: May. 13, 2019 Revised: Apr. 1, 2021 SDS No. 1714F

Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name THUNDERBIRD TM Next SYBR® qPCR Mix

Product Code QPX-201

SUPPLIER

Name TOYOBO Co., Ltd.

Address 2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN Department Biotechnology Overseas Sales and Marketing Department

 $\begin{array}{lll} & \text{Emergency Telephone No.} & +81\text{-}6\text{-}6348\text{-}3843 \\ & \text{Fax No.} & +81\text{-}6\text{-}6348\text{-}3833 \\ & \text{Recommended use and} & \text{realtime PCR kit} \end{array}$

restrictions on use

2 HAZARDS IDENTIFICATION

Important Hazards Few adverse human health effects are anticipated.

GHS classification

Hazard class and category

Physical Hazards Classification not possible

Health Hazards

Skin corrosion/Irritation Category 3

Environmental Hazards Classification not possible

Label elements

Pictograms or symbols - Signal word -

Hazard statements Causes mild skin irritation.

Precautionary statement(s)

Prevention Wash hands thoroughly after handling.

Response If skin irritaion occurs: Get medical advice / attention.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product Mixture

(a substance/a mixture)

Chemical Nature Aqueous solution of enzyme, substrate, etc.

Main components CAS No. (EC NO.)

Tris(Hydroxymethyl)aminome 77-86-1

thane

Magnesium sulfate 7487-88-9 1927-31-7 Deoxyadenosine triphosphate 102783-51-7 Deoxycytidine triphosphate 93919-41-6 Deoxyguanosine triphosphate Deoxythymidine triphosphate 18423-43-3 Additive1 Nondisclosure Additive2 Nondisclosure SYBR® Green I 163795-75-3 DNA polymerase (EC 2.7.7.7)

monoclonal antibody

Components Contributing to the Hazard

Common Chemical Name

Common Chemical Name
(or Generic Name)

Synonyms

Contained Parts: Percentage
Chemical formula

Nondisclosure

Nondisclosure
Nondisclosure

Nondisclosure

Nondisclosure

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4 FIRST-AID MEASURES

Inhalation Remove person to fresh air. Call a doctor if you feel unwell.

Skin Contact Wash with clean water, immediately.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting. Ingestion

If indisposition continues, seek medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media Water, Carbon Dioxide, Foam, Dry Chemical Powder

Specific extinguishing methods 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 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 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 original package.

Storage Conditions Store at about -20°C

Incompatible substances and

mixtures

Oxidizers

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 Additive1 Additive2

JSOH OEL Not established Not established ACGIH TLV Not established Not established OSHA PEL Not established 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid Colour blue Odour None pН 6.0 - 9.0

Flash Point No flammability due to aqueous solution, but additive1 whose flash point 109°C may stay

behind after volatilization.

Boiling Point No available Melting Point No available Decomposition Temperature No available No available Upper/lower flammability or

explosive limits

Specific Gravity 1.0 - 1.2

Solubility Soluble in water



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10 STABILITY AND REACTIVITY

Stable at -20°C

Possible Hazardous Reactions None

Conditions to Avoid High temperature, Flame and Direct sunlight

Incompatible materials strong oxidizers and strong reducers

Hazardous Decomposition No available

Product

11 TOXICOLOGICAL INFORMATION

Acute Toxicity No available

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/ eye May cause eye irritation and inflammation such as conjunctivitis.

irritation

Toxicological information on the component of this product

Additive1 Additive2 Acute toxicity (LD50) Oral-mouse: 20g/kg Not available Skin corrosion/Irritation No available Category 2 Serious eye damage/Eye No available Category 2A irritation

12 ECOLOGICAL INFORMATION

Ecotoxicity Not available

Persistence/Degradability Enzyme, protein and Additive1 are biodegradable.

Bioaccumulation Not available

Mobility Soluble in water and diffusible

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

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°C when it is

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