anti-Taq high First issue : Apr. 30, 2015

SDS No.1031F

# (TOYOBO)

# Safety Data Sheet 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product anti-Taq high
Product Code TCP-101

**SUPPLIER** 

Name TOYOBO Co., Ltd.

Address 2-2-8 Dojima Hama Kita-ku Osaka, 530-8230 Japan

Department Biotech support Department

Telephone No. +81-6-6348-3786 Fax No. +81-6-6348-3833

Recommended use and PCR for DNA amplification restrictions on use (Reagent for research)

# 2 HAZARDS IDENTIFICATION

Parts Name anti-Taq high

Most Important Hazards anti-Taq high contain glycerol and may cause eye and skin irritation.

Few adverse human health effects are anticipated.

Specific Hazards Not available

**GHS** Classification

Hazard class and category

Physical Hazards Flammable liquids Not classified
Health Hazards Skin corrosion /Irritation Category 3
Serious eye damage /Eye irritation Category 2B

Environmental Hazards Classification not possible

Label elements

Pictogram or symbol

Signal word Warning
Hazard statement Causes mild skin irritation

Causes eye irritation

Precautionary statement Wash hands thoroughly after handling

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

IF IN EYES: 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.

Parts Name anti-Taq high 10X PCR buffer

Most Important Hazards Few adverse human health effects are anticipated.

Specific Hazards Not available

GHS Classification Classification not possible

anti-Taq high

First issue: Apr. 30, 2015



**SDS No.1031F** 

# Safety Data Sheet

# 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product Mixture

(Substance/Mixture) Chemical Nature

Main components Parts Name CAS No.

anti-Taq high monoclonal antibody

Tris(Hydroxymethyl)aminomethane 77-86-1

anti-Taq high 10X PCR Tris(Hydroxymethyl)aminomethane 77-86-1

buffer

Magnesium sulfate 7487-88-9

Components Contributing to the Hazard

Common Chemical Name Glycerol

(or Generic Name)

Synonyms Glycerin

Contained anti-Taq high: 52.4% Chemical formula CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH

CAS No. 56-81-5

### 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 plenty of clean water, immediately.

Eye Contact Rinse cautiously with water several minutes. Remove contact lenses if

present and easy to do. Continue rinsing. If eye irritation persists, 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

### 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** 

**Technical Measures** Store in the laboratory bottle

**Storage Conditions** Store at about -20°C

**Packaging Materials** Store in the original package 30)

anti-Taq high First issue : Apr. 30, 2015

SDS No.1031F

# Safety Data Sheet

# 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

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

Control Parameter

Limit Values Glycerol

OSHA PEL total dust:15mg/m³TWA respirable fr.: 5mg/m³TWA

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. anti-Taq high 10X PCR

buffer freezes at -20°C

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 anti-Taq high.

Boiling Point
Melting Point
Not available
Not available
Decomposition Temperature
Density
Solubility
Not available
Not available
Not available
Soluble in water

# 10 STABILITY AND REACTIVITY

Stability Stable at less than -20°C

Possible Hazardous Reactions None

Conditions to Avoid Strong heat

Material to Avoid Direct sunlight, strong oxidizers and strong reducers

Hazardous Decomposition Not available

Product

## 11 TOXICOLOGICAL INFORMATION

Acute Toxicity Not available

Local Effects May cause eye and skin irritation. May cause respiratory and digestive

tract irritation.

Toxicological information on the component of this product

Glycerol

Acute toxicity (LD50) Oral-mouse: 4090mg/kg

Oral-rat: 12.6g/kg

Skin corrosion/Irritation rabbit:500mg/24hr:Mild rabbit:126mg/24hr:Mild

irritation

anti-Taq high First issue: Apr. 30, 2015

**SDS No.1031F** 



# Safety Data Sheet

#### 12 ECOLOGICAL INFORMATION

Rainboutrout:LC50(96hr) 54g/L **Ecotoxicity** 

Gold fish:LC50(24hr)>5g/L

Daphnia magna:EC50(24hr)>10g/L

Red algae: EC50(28hr) 4.6g/L

Mobility Soluble in water and diffusible into water environment.

Persistence/Degradability Rapidly degradable BOD

Bioaccumulation Not bioaccumulative (LogPow=-2.3)

Mobility in Soil Not available Hazard to the ozone layer 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 This product is sold for research purposes only and is not required to

appear on the TSCA inventory. It is not intended for food, drug,

household, agricultural or cosmetic use. 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.