

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



SDS No.1031F

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 2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN
 Department Life Science Department
 Telephone No. +81-6-6348-3786
 Fax No. +81-6-6348-3833
 Recommended use and restrictions on use PCR for DNA amplification
 (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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product Mixture
 (Substance/Mixture)
 Chemical Nature
 Parts Name Main components CAS No.
 anti-Taq high monoclonal antibody -
 Tris(Hydroxymethyl)aminomethane 77-86-1
 Glycerol 56-81-5
 anti-Taq high 10X PCR buffer Tris(Hydroxymethyl)aminomethane 77-86-1
 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 $\text{CH}_2\text{OHCHOHCH}_2\text{OH}$
 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



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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

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	10mg/m ³
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.

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	Not available
Melting Point	Not available
Decomposition Temperature	Not available
Density	1.0-1.2(g/cm ³)
Solubility	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 Product	Not available

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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
Serious eye damage/Eye irritation rabbit:126mg/24hr:Mild

12 ECOLOGICAL INFORMATION

Ecotoxicity Rainboultrout:LC50(96hr) 54g/L
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.