

Uracil-DNA Glycosylase, Heat-labile <Glycerol Free>  
 First issue : Oct. 2, 2018  
 Revised : Apr. 1, 2021  
 SDS No.1559F



## Safety Data Sheet

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product	Uracil-DNA Glycosylase, Heat-labile <Glycerol Free>
Product Code	UNG-201, 209
<b>SUPPLIER</b>	
Name	TOYOBO Co., Ltd.
Address	2-8 Dojima Hama 2-chome, Kita-ku OSAKA 530-8230 JAPAN
Department	Biotechnology Overseas Sales and Marketing Department
Emergency Telephone No.	+81-6-6348-3843
Fax No.	+81-6-6348-3833
Recommended use and restrictions on use	decomposition of DNA template containing uracil (Reagent for research)

### 2 HAZARDS IDENTIFICATION

Important Hazards	
Adverse effects on human health	Few adverse human health effects are anticipated.
GHS Classification	Not classified

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Mixture)	Mixture	
Chemical Nature	Aqueous solution of enzyme	
	Main components	CAS No.
	Uracil DNA glycosylase	-
	Poly(oxyethylene) octylphenyl	9002-93-1
Components Contributing to the Hazard		
Common Chemical Name	Poly(oxyethylene) octylphenyl ether	
Synonyms	Triton X-100	
Chemical formula	$\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{-C}_6\text{H}_4\text{-C}_8\text{H}_{17}$	
CAS No.	9002-93-1	
Concentration	0.1%	

### 4 FIRST-AID MEASURES

Inhalation	In case of irritation by inhaling this product, remove person to fresh air and keep comfortable. Seek medical attention.
Skin Contact	Wash with clean water, immediately.
Eye Contact	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice / attention.
Ingestion	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce to vomiting.

### 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 fire.

### 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedure	Wear protective equipment to avoid eye/skin contact and inhalation.
Environmental Precautions	Avoid disposition to the environment.
Methods and materials for containment and methods and materials for cleaning	Use cloth, paper or anything similar to soak up the solution leaking out of the container. Take up under vacuum using dust collecting filter.

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### 7 HANDLING AND STORAGE

Handling <precautions for safe handling>

Technical Measures

Wear protective equipments and avoid contact with eyes and skin.

Precautions <local/total ventilation>

Good laboratory technique should be used .

Prevention of contact

Avoid contact with oxidizers.

Hygiene measures

After handling, wash with clean

Storage <conditions for safe storage>

Technical Measures

Keep tightly closed and store below -15°C

Incompatible substances and mixtures

Oxidizers

Packaging Materials

Store in the original package

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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, Form, Colour

Liquid (Solid at -20°C or below), Colourless

Odour

None

pH

7.0-9.0

Flash Point

Not flammable due to aqueous solution.

Boiling Point

Not available

Melting Point

Not available

Decomposition Temperature

Not available

Specific gravity

1.0-1.2

Solubility

Soluble in water

### 10 STABILITY AND REACTIVITY

Chemical stability and hazardous reactions

Stable at -20±5°C. Decomposes gradually at normal temperature, but not dangerous reaction.

Conditions to Avoid

Strong heat, Direct sunlight

Incompatible materials

Strong oxidizers, Strong reducers

Hazardous decomposition products

Not available

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Not available

Skin irritation/corrosion

May cause skin irritation.

Eye damage/irritation

May cause eye irritation.

Specific target organ toxicity-single exposure

May cause respiratory irritation.

Toxicological information on the component of this product

Poly(oxyethylene) octylphenyl ether

Acute toxicity

Oral-rat:

LD50 1800mg/kg

Dermal-rabbit:

LD50 >3000mg/kg

Not available

Skin corrosion/Irritation

Category 2A

Eye damage/irritation

Not available

Carcinogenicity

Not available

Specific target organ toxicity-repeated

Not available

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### 12 ECOLOGICAL INFORMATION

Ecotoxicity	Poly(oxyethylene) octylphenyl ether
Persistence and degradability	Fish (Bluegill) : LC50 (96hr) 3mg/L
Bioaccumulative potential	Rapidly biodegradable.
Mobility in soil	Not available
Other adverse effects	Soluble in water and diffusible into water environment.
	Not available

### 13 DISPOSAL CONSIDERATIONS

Waste from Residues	Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated container and Contaminated packaging	Dispose of in accordance with all applicable local and national laws and regulations.

### 14 TRANSPORT INFORMATION

International Regulations	Not classified
UN Classification Number	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.  
 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): p-tertiary-Octylphenoxy polyethyl alcohol  
 This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.  
 Listed substance / Sunset Date: p-tertiary-Octylphenoxy polyethyl alcohol / 04.01.2021

### 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.
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