

# SAFETY DATA SHEET

New Zealand

Section 1. Identification

**Product name** 

Taq DNA Polymerase (cloned); part of 'Taq DNA Polymerase (cloned), 10 x 250 units'

**Catalogue Number** 

27-0798-06

**Component Number** 

270798

Other means of identification

Not available.

Liquid.

Identified uses

**Product type** 

Use in laboratories

Supplier

Cytiva

Amersham Place

Little Chalfont

Buckinghamshire HP7 9NA United Kingdom

+44 0800 515 313

Cytiva New Zealand

Buddle Findlay, Level 18, Pricewaterhousecooper Tower,

188 Quay Street,

Auckland, Auckland, 1010

New Zealand

Person who prepared the MSDS:

Emergency telephone number (with hours of operation)

sds\_author@cytiva.com

0800 733 893 (10am - 7pm)

Section 2. Hazards identification

**HSNO Classification** Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable. Disposal Not applicable. Other hazards which do not None known.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available.

**CAS** number/other identifiers

**CAS** number Not applicable. EC number Mixture **Product code** 27-0798-06

Article Number 27079806-1

Ingredient name % CAS number glycerol 50 56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Eve contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Get medical attention if irritation occurs.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. No known significant effects or critical hazards. Eye contact

#### Over-exposure signs/symptoms

Inhalation No specific data. Ingestion No specific data. Skin No specific data. Eves No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments Not available.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### **Extinguishing media**

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

chemical

Specific hazards arising from the In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal Decomposition products may include the following materials:

Not available.

decomposition products carbon dioxide carbon monoxide

Special precautions for fire-

fighters

Hazchem code

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

equipment and emergency procedures

Personal precautions, protective No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and material for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-

soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking

should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing

and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities Do not store above the following temperature: -20°C (-4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name **Exposure limits** 

alvcerol NZ OSH (New Zealand, 2/2013).

WES-TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Mist and Inspirable dust containing no asbestos and less

than 1% free silica

Appropriate engineering

controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

A respirator is not needed under normal and intended conditions of product use.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

Eve protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid. Colour Colourless. Odour Odourless. Not available. Odour threshold

7.5 [Conc. (% w/w): 100%]

Not available. **Melting point Boiling point** Not available. Flash point Not applicable. **Burning rate** Not applicable. **Burning time** Not applicable. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Lower and upper explosive Not available.

(flammable) limits

Vapour pressure Not available. Vapour density Not available Not available. Relative density

Solubility Easily soluble in the following materials: cold water and hot water.

Solubility in water Not available Partition coefficient: n-octanol/

Not available.

Not available. **Auto-ignition temperature Decomposition temperature** Not available SADT Not available. Viscosity Not available. Flow time (ISO 2431) Not available.

**Aerosol product** 

Type of aerosol Not applicable. Heat of combustion Not available. Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable. equivalent

Enclosed space ignition -

**Deflagration density** 

Not applicable.

Flame height Not applicable. Flame duration Not applicable.

## Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data. Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

## Section 11. Toxicological information

#### Information on likely routes of exposure

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Acute toxicity**

Product/ingredient nameResultSpeciesDoseExposureglycerolLD50 OralRat12600 mg/kg-

#### Irritation/Corrosion

Not available.

#### **Sensitisation**

Not available.

#### Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. No known significant effects or critical hazards. Eye contact Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

## **Chronic toxicity**

Not available.

#### Carcinogenicity

Not available.

#### **Mutagenicity**

Not available.

## **Teratogenicity**

Not available.

## Reproductive toxicity

Not available

### Specific target organ toxicity

Not available.

#### **Aspiration hazard**

Not available.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

## Section 12. Ecological information

**Ecotoxicity** No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Not available.

Persistence/degradability

Product/ingredient name Aquatic half-life Photolysis Biodegradability

glycerol - >60%; 28 day(s) Readily

**Bioaccumulative potential** 

Product/ingredient nameLogPowBCFPotentialglycerol-1.76-low

**Mobility in soil** 

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name		Classes	PG*
New Zealand Class	Not regulated.	-		-	-
			No.		
IATA Class	Not regulated.	-		-	-
			-		
			No.		
IMDG Class	Not regulated.	-		-	-
			No.		

PG\* : Packing group

Special precautions for user Transport within user's premises: always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an accident or

spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

Section 15. Regulatory information

HSNO Approval Number HSR002596

**HSNO Group Standard** Laboratory Chemicals and Reagent Kits

HSNO Classification Not classified.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

New Zealand Not determined.

Australia Not determined.

**Europe** All components are listed or exempted.

United States Not determined.

Canada inventory All components are listed or exempted.

ChinaNot determined.JapanNot determined.MalaysiaNot determined

#### Section 16. Other information

#### **History**

Date of printing 30 April 2020

Date of issue/ Date of revision 30 September 2019

Date of previous issue 2/17/2017

Version 7

**Key to abbreviations** ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

