

Safety Data Sheet

As per No 1907/2006/EC, Article 31

Name: Multi Taq 2 DNA Polymerase

Version: 2.0

Date of issue/ revision: 19.01.2023

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Replaces Version: 1.0

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade Name: Multi Taq 2 DNA Polymerase

Article number:

00-26101-0025
00-26101-0038
00-26101-0063
00-26101-0100
00-26101-0150
00-26101-0400
23-20100-0040

1.2. Relevant identified uses of the substance or mixture and uses advised against Application of the substance/the preparation

Laboratory chemicals

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company:

Address:

Biotype GmbH
Moritzburger Weg 67
01109 DRESDEN
GERMANY

Telephone:

Mail:

+49 351 8838 400

sds@biotype.de

1.4. Emergency telephone number

Giftnotruf Berlin:

(24h, consultation in English and German)

+49 30 30686700

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation

2.2 Label elements

Classification according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation

Hazard pictograms

Not applicable

Signal words

Not applicable

Hazard-determining components of labelling

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Section 3: Composition / Information of ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterisation

Mixture of the substances listed below with harmless additions.

Glycerol;

CAS-No: 56-81-5, EC-No. 200-289-5

REACH- Registration number: 01-2119471987-18-XXXX

Concentration: > 25 - ≤ 50%

Substance for which workplace exposure limits are available.

For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Take affected persons out into the fresh air.
In case of health problems consult a physician.

Following inhalation

Supply fresh air.
Consult physician in case of complaints.

Following skin contact

Immediately wash with soap and water and rinse thoroughly.
Consult physician in case of complaints.

Following eye contact

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

Following ingestion

Rinse mouth. Do NOT induce vomiting. If symptoms develop, call physician and obtain medical attention.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable.

4.3 Indication of any immediate medical attention and special treatment needed

The treatment shall be determined by a physician after the victim's health has been assessed.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Due to safety reasons unsuitable extinguishing agents

Water with full jet.

5.2 Special hazards arising from the substance or mixture

Inhalation of decomposition products can cause damage to health.

5.3 Advice for firefighters

Protective equipment:
Mouth respiratory protective devices
Do not inhale explosion gases or combustion gases.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Ensure adequate ventilation
Wear protective clothing

6.1.2 For emergency responders
Use personal protective equipment (protective gloves (nitrile rubber, ≥ 0.11 mm))

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleanup

Ensure adequate ventilation. Absorb liquid components with liquid-binding material.

6.4 Reference to other sections

See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Keep away from high temperature sources and ignition sources. When working with the mixture, avoid contact with skin and eyes. Ensure adequate ventilation.
Do not inhale product vapors or aerosols. Do not eat, drink or smoke while in use. Wash hands during breaks and after work. Ensure that drainage, surface and ground water and soil are protected.

Information about fire and explosion protection

No special treatment (preparation) is needed.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and other containers

Keep only in the original receptacle in a cool well-ventilated place. Keep container closed when not in use.

Recommended storage temperature: **-25°C - -15°C**

No decomposition of storage and use as intended.

Hints for combined storage

Store separately from oxidizing agents.

7.3 Specific end use

Laboratory Chemicals

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

56-81-5 Glycerol

Occupational exposure limits: 15 mg/m³ inhalable aerosol [USA]
10 mg/m³ inhalable aerosol [United Kingdom]
TWA 10 mg/m³ [Ireland]

8.2 Exposure controls/personal protection

Suitable technical control equipment

In open handling, devices with local exhaust ventilation must be used. If local extraction is not possible or insufficient, good ventilation of the working area should be ensured if possible.

Personal protective equipment

Respiratory protection

Not necessary if room is well-ventilated.

Protection of hands

Protective gloves

Material of gloves: Nitrile rubber, NBR

Recommended thickness of the material >0.11 mm

Value for the permeation: Level ≥480 min.

Eye protection

Tightly sealed goggles.

Thermal hazards

Not required if the product is used as intended.

Limitation and monitoring of environmental exposure

See sections 6 and 7

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties, general information

Appearance:

Color:

Odor:

Liquid

Colorless

No data available

Other physical and chemical parameters

Melting point/freezing point:

Not determined

pH-value:

Not determined

Decomposition Temperature:

Not determined

Initial boiling point and boiling range:

Not determined

Flash point:

Not determined

Flammability

Not determined

Upper explosion limit:

Not determined

Lower explosion limit:

Not determined

Vapor pressure

Not determined

Relative vapor pressure:

Not determined

Relative density:

Not determined

Solubility:

Soluble in water

Partition coefficient:	Not determined
Kinematic viscosity	Not determined
Particle characteristics	Not determined
Explosive properties:	Product does not present an explosion hazard

- 9.2 Other information**
No further relevant information available

Section 10: Stability and reactivity

- 10.1 Reactivity**
No further relevant information available.
- 10.2 Chemical stability**
No decomposition if stored and used according to specifications.
- 10.3 Possibility of hazardous reactions**
No decomposition if stored and used according to specifications.
In a fire, hazardous decomposition products may be produced.
- 10.4 Conditions to avoid**
No further relevant information available.
- 10.5 Incompatible materials**
No further relevant information available.
- 10.6 Hazardous decomposition products**
No further relevant information available.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no toxicological findings on the substance.

Acute toxicity

Based on available data, the classification criteria are not met.

Calculation:

- Inhalation/Respiratory: $ATE_{mix} > 20$
- Oral/Ingestion: $ATE_{mix} > 2000$

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity at single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity on repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

There are no other hazards associated with this mixture.

Section 12: Ecological information

- 12.1 Toxicity**
Aquatic Toxicity
No further relevant information available.
- 12.2 Persistence and degradability**
No further relevant information available.
- 12.3 Bioaccumulative potential**
No further relevant information available.
- 12.4 Mobility in soil**
No further relevant information available.
- 12.5 Results of PBT and vPvB assessment**
This product contains no substances classified as PBT or vPvB.
- 12.6 Endocrine disrupting properties**
No further relevant information available.
- 12.7 Other adverse effects**
No further relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Do not dispose the product in wastewater. Dispose hazardous waste in accordance with local and national regulations.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packaging

Disposal must be made according to official regulations. Packaging that cannot be cleaned should be disposed of as if it were material.

Cleaned packaging

Not contaminated and cleaned packaging can be disposed.

Recommended cleaning agent: water.

Section 14: Transport information

14.1 UN-Number or ID Number

ADR, ADN, IMDG, IATA: Not dangerous goods/not applicable.

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA: Not dangerous goods/not applicable.

14.3 Transport hazard class(es)

Not classified as dangerous goods.

14.4 Packing group

ADR, ADN, IMDG, IATA: Not dangerous goods/not applicable.

14.5 Enviromental hazards

Not classified as dangerous goods.

14.6 Special precautions for user

Not a hazardous material in the sense of the transport regulations.

For personal protective equipment see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable. Not dangerous according to the above specifications.

Section 15: Regulatory information

15.1 Safety. Health and environmental regulations/legislation specific for the substance or mixture

Named dangerous substances - ANNEX I None of the ingredients is listed.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

EU-regulations

Regulation (EC) No 1005/2009 (substances that deplete the ozone layer)

Not applicable

Regulation (EC) No 1021/2019 (persistent organic pollutants)

Not applicable

Regulation (EC) No 649/2012 (export and import of hazardous chemicals)

Not applicable

Regulation (EC) No 648/2004 (Detergents Regulation)

Not applicable

Authorizations according to Title VII of Regulation (EC) No 1907/2006

Not applicable

Restrictions according to Title VIII of Regulation (EC) No 1907/2006

Not applicable

National regulation

Water Hazard Class (WGK)

Not applicable

Reference to Technical Rules for Hazardous Substances (TRGS)

Listed, TRGS 900

15.2 Chemical safety assessment

A chemical safety assessment was not required.

Section 16: Other information

Changes compared to the last version

Section 1) Addition of additional item number

Sections 6), 8), 9) 11), 12), 14), 15) Revision according to Regulation (EU) No. 2020/878

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

References and data sources

<http://www.baua.de>

<http://dguv.de/ifa/stoffdatenbank>

<http://www.gischem.de>

<http://echa.europa.eu/en/candidate-list-table>