

Safety data sheet

According to Regulation (EG) No. 1907/2006

Name: Multi Taq 2 DNA Polymerase

Version: 3.0

Date of issue: 05.08.2024

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Replaces version: 2.0

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

1.1 Product identifiers

Product name: Multi Taq 2 DNA Polymerase

Article number: 00-26101-0025
00-26101-0038
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

Identified uses:

Laboratory chemicals

Uses advised against

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Company: BIOTYPE GmbH
Address: Moritzburger Weg 67
01109 DRESDEN
GERMANY

Telephone: +49 351 8838 400
Mail: sds@biotype.de

1.4 Emergency telephone

BIOTYPE GmbH +49 351 8838 3038
8 a.m. to 6 p.m.; mon-fri,
consultation in English and German

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

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

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Hazard pictograms

Not applicable

Signal word

Not applicable

Hazard-determining components of labelling

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

2.3 Other hazards

Substance or mixture has not been classified as PBT or vPvB.

This substance or mixture does not have endocrine properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

SECTION 3: Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterization

Glycerol

Concentration: >25 - ≤ 50 %

CAS-No.:

56-81-5

EC-No.:

200-289-5

REACH Registration No.:

01-2119471987-18-XXXX

Substance for which workplace exposure limits applies.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Self-protection of the first aider.
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

No information available.

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. Adapt fire-fighting measures to the surrounding area.

Due to safety reasons unsuitable extinguishing agents

Water with full jet.

5.2 Special hazards arising from the substance or mixture

Non-combustible. Inhalation of decomposition products can cause damage to health.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Avoid contact with substance.
Avoid breathing dust / fume / gas / mist / vapours / aerosol.
Wear protective clothing.

6.1.2 For emergency responders

Wear protective clothing.

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

Absorb liquid components with liquid-binding material.
Place into appropriate containers for disposal.

6.4 Reference to other sections

Firefighting measures see section 5.
Handling and storage see section 7.
Personal protective equipment see section 8.
Disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Personal protective equipment see section 8.
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 on fire and explosion protection

The product is non-flammable. Observe usual preventive fire protection measures.

7.2 Conditions for safe storage, including any incompatibilities

Specific designs for storage rooms or vessels

Keep only in original container.
Store container in a dry, cool, and well-ventilated place.
Keep container tightly closed.

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

Hints for combined storage

Store separately from food.
Store separately from oxidizing agents.

7.3 Specific end use

Laboratory chemical, use only according to the product information.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Glycerol (CAS-No.: 56-81-5)

Australia	TWA: 10 mg/m ³ , the value for inhalable dust containing no asbestos and less than 1% free silica.
Ireland	TWA: 10 mg/m ³
New Zealand	TWA: 10 mg/m ³ , the value for inhalable dust containing no asbestos and less than 1% free silica.
USA	TWA: 5 mg/m ³ , Respirable fraction TWA: 15 mg/m ³ , Inhalable fraction
United Kingdom	TWA: 10 mg/m ³

8.2 Exposure controls / personal protection

Suitable technical control equipment

Good ventilation of the work area should be ensured.

Personal protective equipment

Respiratory protection

No protective equipment is required under intended conditions of use.

Protection of hands

Material of gloves: Nitrile rubber, NBR (≥ 0.1 mm)

The glove material must be impermeable and resistant to the product/substance/preparation. The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

Value for the permeation: Level ≥ 480 min

Eye/face protection

Tightly sealed goggles.

Thermal hazards

Not required if the product is used as intended.

Limitation and monitoring of environmental exposure

Prevent penetration into the sewer system or into surface and groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Color	colorless
Odor	no odor detectable
Odor threshold	no odor detectable
Melting point/freezing point	not applicable
Initial boiling point and boiling range	not applicable
Decomposition temperature	not applicable
Flash point	not applicable
Flammability	not applicable
Ignition temperature	not applicable
Upper explosion limit	not applicable
Lower explosion limit	not applicable
pH-value	not applicable
Kinematic viscosity	not applicable
Dynamic viscosity	not applicable
Density	not applicable
Relative vapor density	not applicable
Solubility	soluble in water
Partition coefficient n-octanol/water (log value)	not applicable
Vapor pressure	not applicable
Particle characteristics	not applicable

9.2 Other information

No explosive properties.
No oxidizing properties.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal ambient conditions.

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.

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.
Hazardous combustion products see section 5.

SECTION 11: Toxicological information

11.1 Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Acute toxicity

Inhalation/Respiration: $ATE_{mix} >20$
Oral: $ATE_{mix} >2000$

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

Endocrine disrupting properties

The substance/mixture does not contain any components having endocrine disrupting properties as defined in REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1% or more.

Handle in accordance with normal precautions when dealing with chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

No information is available on the exact toxicity.
Release into the environment must be avoided.

Non-aquatic toxicity

No information is available on the exact toxicity.
Release into the environment must be avoided.

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 substance/mixture does not contain any components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain any components having endocrine disrupting properties as defined in REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1% or more.

12.7 Other adverse effects

Release into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not dispose of product via wastewater. Do not allow product to enter drains. Do not dispose of with household waste.

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

Take empty containers to an approved waste disposal facility for recycling or disposal.

SECTION 14: Transport information

- 14.1 UN-Number oder 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 dangerous goods / not applicable.
- 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 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Assessment has been made.
- Authorizations according to Title VII of Regulation (EC) No 1907/2006 (REACH) in Annex XIV**
No authorizations necessary.
- Restrictions according to Title VIII of Regulation (EC) No 1907/2006 (REACH) with entries in Annex XVII**
No restrictions to consider.
- Regulation (EC) No 1272/2008 Classification, labelling and packaging of substances and mixtures**
Assessment has been made.
- Regulation (EU) 2018/1881 Amending Regulation (EC) No 1907/2006 as regards Annexes I, III, VI, VII, VIII, IX, X, XI, and XII to address nanofoms of substances**
Not applicable

Regulation (EU) 2020/878 Amending Annex II to Regulation (EC) No 1907/2006

Not applicable

Regulation (EU) No 649/2012 Export and import of hazardous chemicals

Not applicable

National regulation

This safety data sheet was created in accordance with EU regulations, which form the basis for the national law of the member states.

15.2 Chemical safety assessment

A chemical safety assessment was not required.

SECTION 16: Other information

Changes compared to the last version

Section 1)	General template customisation
Sections 2.3); 11.2); 12.6)	Addition of endocrine properties
Section 9.1)	Addition of particle properties

Abbreviations and acronyms

CAS	Chemical Abstracts Service
EC	European Commission
EN	European Norm
EU	European Union
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short-term exposure limit
TWA	Time weighted average
UN	United Nations
vPvB	Very persistent, very bioaccumulative

References and data sources

<http://www.baua.de>
<http://dguv.de/ifa/stoffdatenbank>
<https://ilv.ifa.dguv.de/substances>
<http://www.gischem.de>
<http://echa.europa.eu/en/candidate-list-table>