

Safety Data Sheet

Precision DNase Kit SDS

Date of Issue 16th Jul 2024

Version: 2

Product Components:

1. Precision DNase
2. 10X DNase Reaction Buffer

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006:
ARTICLE 31

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

Component Identifier: 1. Precision DNase		Name: DNase enzyme	
Product Use: Removal of contaminating genomic DNA			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Glycerol	56-81-5/200-289-5	50%

Other components: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the GHS regulations

SECTION 4: First aid measures

EYE CONTACT: Flush contaminated eye(s) with large volumes of water for at least 15 minutes.

SKIN CONTACT: Avoid skin contact. If skin contact occurs, wash contaminated skin with soap and water and remove contaminated clothing. Get medical attention if the skin becomes irritated.

INGESTION: No adverse effects are reasonably anticipated. However, if any symptoms occur keep victim warm and calm. Get medical attention immediately.

INHALATION: If breathing becomes difficult, remove victim to fresh air. Seek medical assistance immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Use fire extinguishing media appropriate for site conditions

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions:

None.

6.3. Methods and material for containment and cleaning up:

Dilute with plenty water. Use an absorbent material to contain/pick up spilled solution. Place all contaminated disposables into a suitable container, seal, label and hold for disposal.

SECTION 7: Handling and storage

7.1. Handling

Avoid contact with eyes and skin. Observe all federal, state and local regulations.

7.2. Storage

Store at -20°C. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

56-81-5 - glycerol

WEL Long-term value: 10 mg/m³

8.2. Exposure Controls

8.11. Occupational

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Safety glasses with side shields are advised. Eye wash stations and deluge showers should also be available, and a lab coat should be worn.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves).

GLOVES: Select the glove material considering penetration time, rate of diffusion and degradation time.

Material of gloves:

Rubber or chemical resistant gloves should be worn.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of suitable gloves depends not only on the material, but also on additional quality marks and varies from manufacturer to manufacturer. Because the product is a preparation for some

substances, the resistance of the glove material cannot be calculated in advance so it must be checked before application.

SECTION 9: Physical and chemical properties

Appearance:	
Form:	Viscous, Liquid
Colour:	Clear, Colourless
Odour:	Odourless
pH-value:	7.5
Relative vapour density:	Not determined
Flash point:	N/A
Auto ignition:	None
Decomposition temperature:	Not determined
Explosion hazard:	None
Specific gravity:	1,15 g/cm ³
Solubility in water:	Soluble in water
Vapour pressure:	Not determined
Evaporation rate:	Not determined
Freezing/Melting point:	Not determined
Boiling point:	Not determined
Other information:	No further relevant information available

SECTION 10: Stability and Reactivity

10.1 Stability: The product is stable under recommended handling and storage conditions

10.2 Materials/Conditions to avoid: None known

10.3 Incompatible Materials: None known

10.4 Possible hazardous reactions: None known

10.5 Hazardous decomposition products: None known

SECTION 11: Toxicological Information

Acute toxicity:

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

LD/LC50 values relevant for classification:		
56-81-5 glycerol		
Oral	LD50	1,200 mg/kg (Rat)

Likely routes of exposure: Skin or eye contact

Acute toxicity: None

Skin contact: Prolonged skin contact may cause irritation

Eye contact: May cause mild irritation

Sensitization: N/A

Reproductive effects: N/A

Target organ effects: N/A

Carcinogenicity: None

SECTION 12: Ecological Information:

Toxicity: Components are found in nature and are fully biodegradable

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Disposal must be made according to official regulations.

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet Regulation (E C) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 1 36, 29.5.2007, pp 35-36 and pp 84-89.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, and amending Directive 67/548/EEC and Regulation (EC) No 1907/2006 (in short CLP). Commission Decision 2000/532/EC establishing a list of wastes pursuant to Article 1 (a) of Directive 75/442/EEC on Waste and Article 1 (4) of Directive 91/689/EEC on Hazardous Waste. CONSLEG: 2000D0532-01/01/2002, Office for Official Publications of the European Communities.

Approved Supply List (8th edition), Information provided for the classification and labelling of substances and preparations for supply, United Kingdom Health and Safety Commission, 2005 (based on Annex I of 67/548/EEC).

Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices, Annex I, 'Essential Requirements, OJ L | 331, 7.1298, p 20.

List of approved workplace exposure limits, Table 1 of EH40/2005, United Kingdom Health and Safety Commission, 2ND edition published 2011, implementing the European Commission's Indicative Occupational Exposure Limit Values Directive 2009/161/EU.

16.3. Changes from previous version

Second Version – Update to SDS template

The above information is based on data available and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it shall make their own determinations of the effects, properties and protections which pertain to their particular conditions.

No representation, warranty or guarantee, expressed or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006:
ARTICLE 31

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

Component Identifier: 2. 10X DNase Reaction Buffer		Name: DNase Reaction Buffer	
Product Use: Removal of contaminating genomic DNA			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

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Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2. Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Tris HCl	1185-53-1/214-684-5	20-<30%

Other components: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the GHS regulations

SECTION 4: First aid measures

EYE CONTACT: In case of contact, immediately flush eyes with copious amounts of water for 15 minutes. Seek medical attention.

SKIN CONTACT: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if symptoms occur.

INGESTION: No adverse effects are reasonably anticipated. However, if any symptoms occur seek medical attention.

INHALATION: If inhaled, remove to fresh air. If breathing becomes difficult seek medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Use fire extinguishing media appropriate for site conditions

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

As in any fire wear a self-contained breathing apparatus if necessary

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: None

6.2 Environmental precautions: None

6.3. Methods and material for containment and cleaning up:

Dilute with plenty water. Use an absorbent material to contain/pick up spilled solution. Place all contaminated disposables into a suitable container, seal, label and hold for disposal.

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Avoid contact with eyes and skin. Observe all federal, state and local regulations.

7.2. Storage

Store at -20°C. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure Controls

8.2.1. Occupational

Avoid contact with skin or eyes. Do not place in mouth. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Safety glasses with side shields are advised.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves).

GLOVES: Rubber or chemical resistant gloves should be worn.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of suitable gloves depends not only on the material, but also on additional quality marks and varies from manufacturer to manufacturer. Because the product is a preparation for some substances, the resistance of the glove material cannot be calculated in advance so it must be checked before application.

SECTION 9: Physical and chemical properties

Appearance:	
Form:	Viscous, Liquid
Colour:	Clear, Colourless
Odour:	Odourless
pH-value:	7.5
Relative vapour density:	Not determined
Flash point:	Not determined
Auto ignition:	Not determined
Decomposition temperature:	Not determined
Explosion hazard:	Not determined
Solubility in water:	Soluble in water
Vapour pressure:	Not determined
Evaporation rate:	Not determined
Freezing/Melting point:	Not determined
Boiling point:	Not determined
Other information:	No further relevant information available

SECTION 10: Stability and Reactivity

10.1 Stability: Stable under recommended handling and storage conditions.

10.3 Materials/Conditions to avoid: No data available

10.4 Incompatible Materials: No data available

10.5 Hazardous decomposition products: No data available

SECTION 11: Toxicological Information

11.1 Acute toxicity:

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

11.2 Primary irritant effect:

Skin corrosion/irritation: Prolonged skin contact may cause irritation

Serious eye damage/irritation: May cause mild irritation

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

11.3 Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological Information:

Toxicity: Components are found in nature and are fully biodegradable

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

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No representation, warranty or guarantee, expressed or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.