

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

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Printing date: 12.05.2021	Date of issue: 26.02.2019	

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

### 1.1 Product identifier

REF 740396  
 Product name Liquid Proteinase K (5 mL)  
 REACH Registration number(s): see SECTION 3.1/3.2 or  
 A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 5 mL Liquid Proteinase K

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**  
 Product for analytical use.  
 Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
 The exposure scenario is integrated into sections 1-16.  
**Uses advised against**  
 not described

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by:**  
 MACHEREY-NAGEL GmbH & Co. KG  
 Valenciener Str. 11, 52355 Düren, GERMANY  
 Tel.: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.  
 You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**5 mL Liquid Proteinase K**  
 Signal word Do not need labelling as hazardous  
 -  
 No hazard class

### 2.2 Label elements

**5 mL Liquid Proteinase K**  
 Do not need labelling as hazardous  
 Signal word: -

### 2.3 Other hazards

**Possible hazards from physicochemical properties**  
 According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---  
**Information pertaining to particular risks to human and possible symptoms**  
 Kit contains small amounts of enzymes: In liquid form no hazard H334. Avoid inhalation of dust. ---  
**Information pertaining to particular risks to the environment**



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Other hazards  
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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 5 mL Liquid Proteinase K

Chemical:	<i>proteinase K, liquid (origin: tritirachium album)</i>	CAS No.:	39450-01-6I
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1		
Formula:	Enzyme Comm. No. 3.4.21.64, origin: tritirachium album		
TSCA Inventory:	listed (CAS 102925-54-2)		
EC No.:	254-457-8	Indice No.:	647-014-00-9
RTECS:	-	MFCD:	00132129
KE No.:	not listed		
Concentration:	1 - <3 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>glycerole</i>	CAS No.:	56-81-5
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>		
Pseudonym:	glycerin, 1,2,3-propanetriol		
TSCA Inventory:	listed (1,2,3-Propanetriol)		
REACH Reg. No.:	01-2119471987-18-xxxx		
EC No.:	200-289-5	Indice No.:	n/a
RTECS:	MA8050000	MFCD:	00004722
KE No.:	KE-29297		
Concentration:	50 - <80 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes

#### 4.1.3 After INHALATION of vapours

After inhalation of dust fresh air should be inhaled. ---

#### 4.1.4 After ORAL Intake

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### 4.2 Most important symptoms and effects, both acute and delayed

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### 4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

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**5.2 Special hazards arising from the substance or mixture**

None.

**5.3 Advice for firefighters**

No, for listed product. Product package burns like paper or plastic.

**5.4 Additional information**

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## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dusting. Do not breathe dust. .

**6.2 Environmental precautions**

not necessary

**6.3 Methods and material for containment and cleaning up**

Remove remaining dust with a vacuum cleaner. If there is no vacuum cleaner, wet dust well and remove mechanical (Inhalation protection). Clean working area with water. Flush used water into drains.

**6.4 Reference to other sections**

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## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Avoid dusting.

**7.2 Conditions for safe storage, including any incompatibilities**

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 10

Water hazard class (DE): 1

**7.2.1 Requirements for stock rooms and containers**

Keep original product packages tightly closed during handling and storage.

**7.3 Specific end use(s)**

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**5 mL Liquid Proteinase K**

Chemical: *proteinase K, liquid (origin: tritirachium album)*

SUVA(CH) MAK value: 0,00006<sub>15min</sub> mg/m<sup>3</sup>

CAS No.: 39450-01-6l

Chemical: *glycerole*

DNEL: [inh] 56 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sup>(fresh water)</sup>: 0.885 mg/L

PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 200 E mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 2 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 50 e\* mg/m<sup>3</sup>

CAS No.: 56-81-5

**8.2 Exposure controls**

Not necessary.

**8.2.1 Respiratory protection**

Not necessary.

**8.2.2 Hand protection**

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Not necessary, recommended for often use.

**8.2.3 Eye protection**

Not necessary.

**8.2.4 Skin protection**

Not necessary.

**8.2.5 Personal hygiene**

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**5 mL Liquid Proteinase K**

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

7-8

Specific gravity:

1.1 g/cm<sup>3</sup>

Solubility in water:

0-100 %

### 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances.

**5 mL Liquid Proteinase K**Chemical: *proteinase K, liquid (origin: tritirachium album)*

CAS No.: 39450-01-6l

TSCA Inventory: listed (CAS 102925-54-2)

Japan CSCL/PRTR: not listed

Japan ISHL: not listed

Korea Exist.Chem.Inventory: not listed

Avoid inhalation of dust.

Chemical: *glycerole*

CAS No.: 56-81-5

TSCA Inventory: listed (1,2,3-Propanetriol)

Exposure Routes: inhalation, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, kidneys

Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed

Korea Exist.Chem.Inventory: KE-29297

LD50<sub>orl rat</sub>: 12.6 g/kgLD50<sub>drm rbt</sub>: >18.7 g/kg

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Avoid inhalation of dust.  
TRGS 905 (DE): R<sub>F</sub> C

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 5 mL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-6l  
Water hazard class (DE): 1  
Storage class (VCI): 13

Chemical: *glycerole* CAS No.: 56-81-5  
PNEC<sub>(fresh water)</sub>: 0.885 mg/L  
PNEC = Predicted No Effect Concentration  
LC<sub>50</sub><sub>fish/96h</sub>: >5000<sub>24h</sub> mg/L  
EC<sub>50</sub><sub>daphnia/48h</sub>: >10<sub>24h</sub> g/L  
IC<sub>50</sub><sub>scenedesmus quadricauda/72h</sub>: IC<sub>57d</sub> >10 g/L  
EC<sub>10</sub><sub>pseudomonas putita/16h</sub>: EC<sub>5</sub>: >10 g/L  
Water hazard class (DE): 0  
Dispersion coefficient<sub>(octanol-water)</sub>: -1.76  
Storage class (VCI): 10

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

### 14.5 Environmental hazards

none

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 Look for your country-specific regulations.

### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

#### 16.1.2 List of relevant P phrases

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

None

### 16.4 Further information

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### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS  
 Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 TRGS 900, German engineering rules governing limits in air at work, updated 03/2019  
 SUVA .CH, Limits in air at work 2009, revised on 01.2009  
 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

#### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU