

# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 1/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

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

#### 1.1 Product Identifier / Product Name

REF	740506
Product Name	Proteinase K (100 mg)
1 x 8 mL PB	
2 x 25-60 mg Proteinase K (Iyo)	UFI: S0KV-C3D9-420Q-9T2H

#### 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 and of the Safety Data Sheet

**Manufactured by:**  
 MACHEREY-NAGEL GmbH & Co. KG  
 Valencienner Str. 11, 52355 Düren, Germany  
 Phone: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

#### 1.4 Emergency Telephone Number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
 USA: American Association Of Poison Control Centers  
 Rockville, MD 20857. tel. 1-800-222-1222, <<https://www.poisonhelp.org>>  
 DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730  
 <<https://www.ggiz-erfurt.de>>

You find our current versions of SDS in Internet: <<http://www.mn-net.com/SDS>>

### SECTION 2: Hazard(s) Identification

#### 2.0 Classification of the complete Product



GHS07 GHS08

Signal Word DANGER

Hazard Identification	Hazard Classes/Categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

#### 2.1 Classification of the substance or mixture

25-60 mg Proteinase K (Iyo)



GHS07 GHS08



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Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

Signal Word	DANGER
<b>Hazard Identification</b>	<b>Hazard Classes/Categories</b>
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

### 8 mL PB

Signal Word	Do not need labelling as hazardous
No Hazard Class	-

List of H phrases: see section 16.2

## 2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According to the implementation of GHS immediate packages only must be labelled with product identifier(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensibilizing substances.

### 25-60 mg Proteinase K (Iyo)



Signal Word: DANGER  
 H334  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 P261sh, P342+311  
 Avoid breathing dust/vapors. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### 8 mL PB

Do not need labelling as hazardous  
 Signal Word: -

### Label elements of the complete product



Signal Word: DANGER  
 H334  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 P261sh, P342+311  
 Avoid breathing dust/vapors. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

## 2.3 Other Hazards

### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant.

### Information pertaining to particular Risks to Human and possible Symptoms

Cause after impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust.

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

### Information pertaining to particular Risks to the Environment

**PBT:** not applicable  
**vPvB:** not applicable



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## SDS acc. Hazard Communication Standard

REF: 740506

Proteinase K (100 mg)

Page: 4/10

Printing Date: 04.04.2023

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### SECTION 5: Fire-Fighting Measures

#### 5.1 Extinguishable Media

##### 5.1.1 Suitable 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.

##### 5.1.2 Unsuitable extinguishing media

data not available

#### 5.2 Special Hazards arising from the Substance or Mixture

#### 5.3 Advice for Firefighters

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

#### 5.4 Additional Information

### SECTION 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Avoid dusting. Do not breathe dust. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

#### 6.2 Environmental Precautions

PBT: not applicable

vPvB: not applicable

#### 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). And dispose in accordance to local regulations for the disposal of hazards. Clean any contaminated equipment and floors with plenty of water.

#### 6.4 Reference to other Sections

### SECTION 7: Handling and Storage

#### 7.1 Precautions for Safe Handling

Avoid dusting. Use only in well-ventilated working areas.

#### 7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package allows a safe storage. Storage class (German chemical industry): see chapter 12.1

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

##### 25-60 mg Proteinase K (Iyo)

Chemical: *proteinase K*

CAS No.: 39450-01-6

##### 8 mL PB

Chemical: *glycerole*

CAS No.: 56-81-5

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

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.885 mg/L

PNEC = Predicted No Effect Concentration



# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 5/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

### 8.2 Exposure Controls

The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory Protection

Use for open access of these substances for example a vapor/dust respirator, class A/AX. No additional recommendations.

#### 8.2.2 Skin protection / Hand protection

Yes, gloves (permeation time >30 min - level 2), consist of PVC.

#### 8.2.3 Eye / Face Protection

Yes, Splash Goggles.

#### 8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

#### 8.2.5 Hygiene Measures

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

#### 8.2.6 Thermal hazards

data not available

### 8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

#### 25-60 mg Proteinase K (Iyo)

a) State of aggregation:	solid (lyophilized)
b) Color:	slightly grey
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	data not available
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	data not available
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

#### 8 mL PB

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	alcoholic
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	data not available
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.11 g/cm <sup>3</sup>



# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 6/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

q) Relative Vapor Density (air=1): data not available  
 r) Particle Size: data not available

### 9.2 Further Information

Properties relevant to substance groups

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No further data available.

### 10.2 Chemical Stability

no known instability.

### 10.3 Possibility of Hazardous Reactions

No further data available.

### 10.4 Conditions to avoid

No more required.

### 10.5 Incompatible Materials

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### 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 chemicals. Quantitative data on the toxicity of this product are not available.

#### 25-60 mg Proteinase K (Iyo)

Chemical: *proteinase K* CAS No.: 39450-01-6

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

Acute Effects: Cause after impairments of health when ingested in small quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust.

#### 8 mL PB

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

LD50 orl rat : 12600 mg/kg

Avoid inhalation of dust.

### 11.2 Other Hazards

#### Possible endocrine disrupting effects

data not available

#### Other Information

no additional data available



# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740506

Proteinase K (100 mg)

Page: 7/10

Printing Date: 04.04.2023

Date of Issue: 18.07.2022

Version: 2.2.2.3

### SECTION 12: Ecological Information

#### 12.1 Toxicity

Following information is valid for pure chemicals.

##### 25-60 mg Proteinase K (Iyo)

Chemical: *proteinase K*

CAS No.: 39450-01-6

##### 8 mL PB

Chemical: *glycerole*

CAS No.: 56-81-5

PNEC (fresh water) : 0.885 mg/L

PNEC = Predicted No Effect Concentration

LC50 fish/96h : >5000 24h mg/L

EC50 daphnia/48h : >10 24h g/L

IC50 scenedesmus quadricauda/72h : IC50 7d >10 g/L

EC10 pseudomonas putida/16h : EC5: >10 g/L

Partition Coefficient (o/w) : -1,76

#### 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

#### 12.6 Endocrine disrupting properties

data not available

#### 12.7 Other Adverse Effects

no additional data available

### SECTION 13: Disposal Considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (RCRA Code D002/D003, EU waste code number 16 05 06).

#### 13.1 Waste Treatment Methods

### 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 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

### SECTION 15: Regulatory Information

#### 15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

##### U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

<https://www.osha.gov/dsg/hazcom/ghs.html>

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory



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## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 8/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

### U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

### Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

## 15.2 Chemical Safety Assessment

not necessary for these small amounts

## SECTION 16: Other Information

### 16.1 Changes compared to the last version

Between versions 2.2.2.3 and 2.2.2.2 following changes were applied: - 1 substance data corrected

### 16.2 List of Hazard and Precaution Phrases

#### 16.2.1 List of relevant H Phrases

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 16.2.2 List of relevant P Phrases

P261sh	Avoid breathing dust/vapors.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### 16.3 Recommended Restriction on Use

Only for Professional User.  
 Look about employee restrictions for young people!  
 Look about employee restrictions for pregnant women and nursing women!  
 An individual package of this product or test kit has a moderate hazardous potential.

### 16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
 Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
 SUVA .CH, limit values in the air at work 2009, revised on 01/2009  
 Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)  
 Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG  
 TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)  
 Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)  
 Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)  
  
 Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)  
 Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)  
 Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)  
 TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019  
 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)  
 Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
 Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)  
 Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)  
 Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

#### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
 2014-04 adjustment according Regulation 487/2013/EU  
 2016-03 adjustment according Regulation 1221/2015/EU  
  
 2017-11 adjustment according the ECHA registration dossier  
 2022-11 adjustment according Regulation 878/2020/EU

### 16.5 Further Information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.  
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## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 9/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

### 16.6 Legend / Abbreviations

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxygen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not specified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitoneal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	lethal concentration 50%
LD50:	lethal dose 50%
leuciscus idus:	fish, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchus mykiss:	fish, rainbow trout
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales promelas:	fish, fathead minnow
PNEC:	Predicted No Effect Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	registration number
Repr:	harmful to reproduction
Resp:	respiratory
scu:	sub cutan
RIP:	REACH Implementations Projects
SDS:	safety data sheet
Sens:	sensitisation
STEL:	short term exposure limit



# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740506	Proteinase K (100 mg)	Page: 10/10
Printing Date: 04.04.2023	Date of Issue: 18.07.2022	Version: 2.2.2.3

STOT: Specific Target Organ Toxicity  
 SVHC: Substance of Very High Concern  
 t/a: tons per year  
 TCCA: Toxic Chemicals Control Act (S. Korea)  
 Tox: toxic  
 TSCA: The Toxic Substances Control Act (US)  
 TWA: time weighted average  
 TRGS: technical regulations (DE)  
 vPvB: very persistent, very bioaccumulating substance

### 16.7 Training Advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



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