

Version 1.5 Revision Date: 04-17-2019

Date of last issue: 06-18-2018 Date of first issue: 09-25-2015

### **SECTION 1. IDENTIFICATION**

Product name	:	Proteinase K,recomb.,PCR Gr	d.Sol.,1.25ml
Product code	:	03115887001	
Manufacturer or supplier's Company name of supplier			id GmbH
Address	:	Sandhoferstrasse 116 68305 Mannheim Germany	
Telephone Telefax Emergency telephone In case of emergencies:	:	+496217590 +496217592890 CHEMTREC	+1 703-741-5970 /
Recommended use of the c	hen	nical and restrictions on use	1-800-424-9300

Restrictions on use : For professional users only.

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200 Respiratory sensitization : Category 1				
Skin sensitization	:	Category 1		
GHS label elements Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing diffi- culties if inhaled.		
Precautionary Statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves. P285 In case of inadequate ventilation wear respiratory protec- tion.		



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#### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50.0 - < 70.0
Proteinase K	39450-01-6	>= 1.0 - < 5.0
A.t 1		

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice	ve out of danger ow this material nce. not leave the vio	safety data sheet to the doctor in atten-
If inhaled	ve to fresh air.	poison control center immediately. ce in recovery position and seek medical
In case of skin contact	n skin, rinse wel	l with water.
In case of eye contact	move contact ler otect unharmed e ep eye wide ope	eye.
If swallowed	ver give anything	act clear. alcoholic beverages. g by mouth to an unconscious person. c, call a physician.



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		Take victim imm	ediately to hospital.
	rtant symptoms : s, both acute and		llergic skin reaction. gy or asthma symptoms or breathing difficul-
Notes to p	hysician :	•	cedure should be established in consultation esponsible for industrial medicine.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	No information available.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid formation of aerosol.



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	Avoid expo Avoid conta For persona Smoking, e plication are Provide suf Dispose of regulations Persons su allergies, ch	ficient air exchange and/or exhaust in work rooms. rinse water in accordance with local and national
Conditions for safe sto	ce. Electrical in	iner tightly closed in a dry and well-ventilated pla- stallations / working materials must comply with ogical safety standards.
Further information or age conditions	n stor- : See label, p	ackage insert or internal guidelines
Further information or age stability	n stor- : No decomp	osition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

-		[		
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
glycerol	56-81-5	TWA (mist,	5 mg/m3	OSHA Z-1
		respirable		
		fraction)		
		TWA (mist,	15 mg/m3	OSHA Z-1
		total dust)	Ū	
		TWA (Mist -	10 mg/m3	OSHA P0
		total dust)		
		TWA (Mist -	5 mg/m3	OSHA P0
		respirable		
		fraction)		
Proteinase K	39450-01-6	IOEL	0.00006 mg/m3	Roche In-
			Ū	dustrial Hy-
				giene Com-
				mittee
				(RIHC)

Engineering measures

No data available

:

### Personal protective equipment

Respiratory protection

: In the case of vapor formation use a respirator with an approved filter.



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Hand protection Remarks		priate protective gloves to prevent skin contact.
Eye protection	: Eye wash bo	n or punctured gloves promptly. ottle with pure water g safety goggles
Skin and body protecti	Choose bod	clothing y protection according to the amount and con- the dangerous substance at the work place.
Hygiene measures	: Wash hands	before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, colorless
Odor	:	very faint
Odor Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (liquids)	:	The product is not flammable.
		Does not sustain combustion.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.126 g/cm3
Solubility(ies) Water solubility	:	completely miscible



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Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	Remarks: No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	•	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong bases Strong oxidizing agents Nitric acid Peroxides
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 60 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

### Components:

#### glycerol:



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sion	Revision Da 04-17-2019	
Acute oral toxicity	:	LD50 Oral (Rat): 12,600 mg/kg
	I	LD50 Oral (Mouse): 4,090 mg/kg
Acute inhalation toxic		Acute toxicity estimate: > 30 mg/l Test atmosphere: vapor Method: Expert judgment
Acute dermal toxicity	: 1	LD50 Dermal (Rabbit): 10,000 mg/kg
Skin corrosion/irrita Not classified based o		nformation.
Product:		
Remarks	:	May cause skin irritation and/or dermatitis.
Components:		
Proteinase K:		
Result		Irritating to skin.
Remarks	:	May cause skin irritation and/or dermatitis.
Not classified based of <b>Product:</b>		
Not classified based of	: `	nformation.
Not classified based of <b>Product:</b>	: `	nformation. Vapors may cause irritation to the eyes, respiratory syst
Not classified based of <b>Product:</b> Remarks <b>Components:</b>	: `	nformation. Vapors may cause irritation to the eyes, respiratory syst
Not classified based of <b>Product:</b> Remarks	: `	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin.
Not classified based of <u>Product:</u> Remarks <u>Components:</u> Proteinase K:	: '	nformation. Vapors may cause irritation to the eyes, respiratory syst
Not classified based of <u>Product:</u> Remarks <u>Components:</u> Proteinase K: Result		nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of <u>Product:</u> Remarks <u>Components:</u> <u>Proteinase K:</u> Result Remarks	:   :   sensitization	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz	: I sensitization skin reaction	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz	: I sensitization skin reaction	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz May cause allergy or	: I sensitization skin reaction ation asthma symp	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz May cause allergy or sensitiz May cause allergy or sensitiz	: I sensitization skin reaction ation asthma symp	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz May cause allergy or sensitiz May cause allergy or sensitiz Remarks	: I sensitization skin reaction ation asthma symp	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.
Not classified based of Product: Remarks Components: Proteinase K: Result Remarks Respiratory or skin sensitization May cause an allergio Respiratory sensitiz May cause allergy or sensitiz May cause allergy or sensitiz Remarks Components:	: I sensitization skin reaction ation asthma symp : 0	nformation. Vapors may cause irritation to the eyes, respiratory syst and the skin. Irritating to eyes. May cause irreversible eye damage.



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Proteinase K:		
Assessment Remarks	<ul><li>May cause sensitization by skin contact.</li><li>Causes sensitization.</li></ul>	
Assessment	: May cause sensitization by inhalation.	
Germ cell mut	tagenicity	
Not classified b	based on available information.	
Carcinogenici	-	
_	based on available information.	
<u>Components:</u>		
glycerol:		
Remarks	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
Reproductive	toxicity	
Not classified b	based on available information.	
STOT-single e	exposure	
Not classified b	based on available information.	
Components:		
Proteinase K:		
Assessment	: May cause respiratory irritation.	
STOT-repeate	ed exposure based on available information.	
Components:		
Proteinase K:		
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.	
Components:		
<b>glycerol:</b> Repeated dose	e toxicity - : BOC changed to TLMild eye irritant	



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Assessment

Mild respiratory irritant No skin irritationEOC changed to TL

#### Aspiration toxicity

Not classified based on available information.

**Components:** 

Proteinase K: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Product:

Ecotoxicology Assessment		
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

#### **Components:**

glycerol:		
Toxicity to fish	:	LC50: > 100 mg/l Exposure time: 96 h
Toxicity to algae	:	EC0 (Scenedesmus quadricauda (Green algae)): > 10,000 mg/l
Toxicity to fish (Chronic tox- icity)	:	> 1 mg/l
Toxicity to microorganisms	:	EC0 (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h
Ecotoxicology Assessment		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
	:	This product has no known ecotoxicological effects. This product has no known ecotoxicological effects.
Acute aquatic toxicity		
Acute aquatic toxicity Chronic aquatic toxicity	:	This product has no known ecotoxicological effects. Not expected to adsorb on soil.
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to	:	This product has no known ecotoxicological effects. Not expected to adsorb on soil.

Toxicity Data on Soil

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Other organisms relevant to the environment	:	No data available
Persistence and degradabilit	ty	
Components:		
<b>glycerol:</b> Biodegradability	:	Remarks: The product is miscible in water and readily biode- gradable in both water and soil. Accumulation is not expected.
Bioaccumulative potential		
Components:		
<b>glycerol:</b> Partition coefficient: n- octanol/water	:	log Pow: -2.66
<b>Proteinase K:</b> Partition coefficient: n- octanol/water	:	Remarks: No data available
<b>Mobility in soil</b> No data available		
Other adverse effects		
Product: Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Pro- tection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufac- tured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company. Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.



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#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

**Domestic regulation** 

**49 CFR** Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components		CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	:	Respiratory or skin s	sensitization

#### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol

56-81-5

>= 50 - < 70 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.



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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations					
Massachusetts Right To Ki	ow				
glycerol		56-81-5			
Pennsylvania Right To Kno	N	50.04.5			
glycerol Water		56-81-5 7732-18-5			
Maine Chemicals of High Concern					
Vermont Chemicals of High Concern					
Washington Chemicals of High Concern					
California Permissible Exposure Limits for Chemical Contaminants					
glycerol		56-81-5			
The ingredients of this product are reported in the following inventories:					
DSL	: This product contains the followi on the Canadian DSL nor NDSL	<b>e</b>			
	Proteinase K				
AICS	: Not in compliance with the inver	itory			
NZIoC	: On the inventory, or in complian	ce with the inventory			
ENCS	: Not in compliance with the inver	itory			
ISHL	: Not in compliance with the inver	itory			
KECI	: Not in compliance with the inver	itory			
DICCC	Not in compliance with the invert				
PICCS	: Not in compliance with the inver	itory			
IECSC	: On the inventory, or in complian	-			
		ce with the inventory			

### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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### **SECTION 16. OTHER INFORMATION**

### **Further information**



HMIS® IV:

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Distributor

MilliporeSigma 3050 Spruce Street SAINT LOUIS MO 63103 USA

#### Full text of other abbreviations

OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
		1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)



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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8 / 1805