

Version: 1.3

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/07/2018 Revision date: 11/07/2018

SECTION 1: Identifica	tion of the substance	e/mixture and of the company/undertaking
1.1. Product identifier		
Product form	: Mixt	ure
Product name	: Prot	einase K (Molecular Biology Grade)
Product code	: E-PI	RKMB
1.2. Relevant identifie	d uses of the substance o	r mixture and uses advised against
1.2.1. Relevant identifie		
Industrial/Professional use s		professional use only
Use of the substance/mixture		as laboratory reagent
	,	
1.2.2. Uses advised aga	linst	
No additional information ava	ailable	
1.3. Details of the sup	plier of the safety data she	eet
Megazyme		
Bray Business Park A98 YV29 Bray - Ireland		
T +353 12861220 - F +353 1	2861264	
cs@megazyme.com - www.i	negazyme.com	
1.4. Emergency telep	hone number	
Emergency number	: +35	3 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards		
2.1. Classification of	the substance or mixture	
Classification according to	Regulation (EC) No. 1272	/2008 [CLP]
Skin corrosion/irritation, Cate	egory 2 H315	
Serious eye damage/eye irrit 2	ation, Category H319	
Respiratory sensitisation, Ca	tegory 1 H334	
Specific target organ toxicity exposure, Category 3, Respi irritation		
Full toxt of H statements : co	o soction 16	

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

	GHS07 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: Proteinase, Tritirachium album serine
Hazard statements (CLP)	 H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P261 - Avoid breathing mist, spray, vapours. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection P284 - [In case of inadequate ventilation] wear This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. P302+P352 - IF ON SKIN: Wash with plenty of water.

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Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

Hazard pictograms (CLP)



Hazardous ingredients

: Proteinase, Tritirachium album serine

2.3. Other hazards

No additional information available

SECT	ION 3: Composition/information on ingredients
3.1.	Substances
Not app	licable
3.2.	Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Proteinase, Tritirachium album serine	(CAS-No.) 39450-01-6 (EC-No.) 254-457-8	70 - 80	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ts, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the su	ibstance or mixture
Hazardo fire	ous decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ION 6: Accidental release mea	sures
6.1.	Personal precautions, protective ec	quipment and emergency procedures
6.1.1. Emerge	For non-emergency personnel ncy procedures	: Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.

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6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for conta	inment and cleaning up
Methods	for cleaning up	: Mechanically recover the product.
Other inf	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storag	e
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene	measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this produc Always wash hands after handling the product.
7.2.	Conditions for safe storage, inc	luding any incompatibilities
Storage	conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
7.3.	Specific end use(s)	
No addit	ional information available	
SECTI	ON 8: Exposure controls/p	ersonal protection
8.1.	Control parameters	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374-2

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Solid particles	EN 143, EN 149



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Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Colour	: white.
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on toxicological effect	S		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Germ cell mutagenicity	: Not classified		

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity :	Not classified
Chronic aquatic toxicity :	Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods :	Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	ΙΑΤΑ	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

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Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.