Printing date 18.11.2019

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Version number 1

Revision: 18.11.2019

1.1 Product ide	ntifior			
	•			SERVA
Irade name: <u>P</u> CAS Number:	oteinase K, recombinant,	min. 35 mAnson-U/mg		serving scientists
CAS Number: 39450-01-6				
59450-01-0 EC number:				
254-457-8				
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	ant information available.		uviseu uguinsi	
v	he substance / the mixture			
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	e supplier of the safety da	ita sheet	C /	
Manufacturer/				
SERVA Electro				
Carl-Benz-Str.			. 63	
D-69115 Heide Tel.: +49 6221	0		A MARINE AND A MAR	
Tel.: +49 6221 FAX: +49 6221			50	
rax: +49 0221 msds.info@serv		AO	75	
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	oartment: Product Safety of	department Tel.: +49 622	1 13840-35	
	telephone number:			
0	ency Information in case of			
	ion Center Mainz - Phone			
(advisory servio	e in German or English la	nguage)		
2.1 Classificati	Hazards identification			
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P304+P340	
$P \left\{ 1 \right\} \downarrow P \left\{ 2 \right\} \downarrow$	(Contd. of page
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P33	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Labelling of pac	kages where the contents do not exceed 125 ml
Hazard pictogra	ms GHS07, GHS08
· Signal word Dan	iger
· Hazard statemen	uts
H334 May cause	allergy or asthma symptoms or breathing difficulties if inhaled.
· Precautionary st	atements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P3.	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
2.3 Other hazard	
	and vPvB assessment
	ssment not available.
• vPvB: vPvB - ass	sessment not available.
SECTION 3: C	Composition/information on ingredients
	aracterisation: Substances
CAS No. Descrip	ption:
CAS No. Descrip 39450-01-6 Prote	otion: einase, Tritirachium album serine
CAS No. Descrip 39450-01-6 Prote Identification nu	otion: einase, Tritirachium album serine umber(s):
• CAS No. Descrip 39450-01-6 Proto • Identification nu • EC number: 254	otion: einase, Tritirachium album serine umber(s):
CAS No. Descrip 39450-01-6 Prote Identification nu EC number: 254 Description:	otion: einase, Tritirachium album serine umber(s):
CAS No. Descrip 39450-01-6 Proto Identification nu EC number: 254 Description: MW: 28900	otion: einase, Tritirachium album serine umber(s): I-457-8
CAS No. Descrip 39450-01-6 Proto Identification nu EC number: 254 Description: MW: 28900	otion: einase, Tritirachium album serine umber(s):

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact
- Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- · After eye contact

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

- · After swallowing
- Wash out mouth. Drink plenty of water and supply fresh air. Consult doctor if you feel unwell.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- · Suitable extinguishing agents
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · 5.2 Special hazards arising from the substance or mixture
- *In case of fire, the following can be formed, but not limited to:* Nitrogen oxides (NOx)

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Carbon monoxide and carbon dioxide

• 5.3 Advice for firefighters

• Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust. Do not inhale dusts.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

6.4 Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

• Information about protection against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles: Store at -15 to -25 °C

• Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

• Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Short term filter device:

Filter P2.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:

Protective gloves.

(Contd. on page 4)

(Contd. of page 2)

^{· 8.1} Control parameters

[•] Components with limit values that require monitoring at the workplace: Not required.

^{· 8.2} Exposure controls

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

 \cdot For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR

• *Eye protection: Tightly sealed goggles.* • *Body protection: Protective work clothing.*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and c General Information	nemical properties
Appearance:	
Form:	lyophilized powder
Colour:	White
Odour:	Nearly odourless
Odour threshold:	Not determined.
Change in condition	
Melting point/freezing point:	undetermined
Initial boiling point and boiling range	e: undetermined
Flash point:	no information available
Flammability (solid, gaseous)	Product is not flammable.
Decomposition temperature:	Not determined.
Self igniting:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	Not determined
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Soluble
Partition coefficient: n-octanol/water:	no information available
Viscosity:	
dynamic:	no information available
kinematic:	no information available

Nitrile rubber, NBR

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• 9.2 Other information

There are no more data available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant informations available
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. • 10.3 Possibility of hazardous reactions
- As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion

Reactions with strong oxidizing agents

- 10.4 Conditions to avoid high ttemperatures
- exposure to the light
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- 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.
- Acute effects (acute toxicity, irritation and corrosivity) Respiratory irritation is possible.
- · CMR effects (carcinogenity, 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
- May cause respiratory irritation.
- 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

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Do not allow product to reach ground water, water course or sewage system.
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.

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· 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN-Number	
ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	Void
Label	-
ADN/R Class:	Void
14.4 Packing group	
ADR, IMDĞ, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN ''Model Regulation'':	Void

SECTION 15: Regulatory information

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

· National regulations

• Technical instructions (air):

 Class
 Share in %

 I
 80-100

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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	This information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship.
1	Department issuing SDS: Product safety department
(Contact: +49 6221 13840-35
2	Abbreviations and acronyms:
ł	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Transport of Dangerous Goods by Rail)
1	CAO: International Civil Aviation Organisation
	PBT: persistent, bioaccumulative, toxic substance (REACH)
۱	PvB: very persistent, very bioaccumulative substance (REACH)
ł	REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
	CLP: Regulation on classification, labelling and packaging of substances and mixtures
	w: body weight
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio
	Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods
	ATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	PBT: Persistent, Bioaccumulative and Toxic
	PVB: very Persistent and very Bioaccumulative
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	Resp. Sens. 1: Respiratory sensitisation – Category 1
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
•	* Data compared to the previous version altered.