Printing date 05/03/2018

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0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Identificatio	n	
· Product ident	tifier CEDS 7A	
• Trade name:	Protease Inhibitor Mix HP	<u>.</u>
• Article numb • Application o	er: 39106 f the substance / the mixture Laboratory chemicals	
· Manufacture	rophoresis GmbH r. 7 delberg 21 13840-0 21 13840-10	
• Emergency te Medical Emer Poison Inform	department: Product Safety department Tel.: +49 6221 13840-35 Plephone number: rgency Information in case of poisoning: nation Center Mainz - Phone: +49 (0) 6131 19240 vice in German or English language)	
2 Hazard(s) ia	lentification	
GHS label ele Hazard pictog Signal word V Hazard stater Classification NFPA rating HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH FIRE C HEALTH C FIRE C HEALTH C FIRE C HEALTH C FIRE C HEALTH C FIRE C HEALTH C FIRE C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C FIRE C C HEALTH C C FIRE C C C C C C C C C C C C C C C C C C C	grams Void Void nents Void a system: s (scale $0 - 4$)Health = 0 Fire = 0 Reactivity = 0s (scale $0 - 4$)Health = *0 Fire = 0 Reactivity = 0s mathematical systemsS T and vPvB assessment blicable.	
Composition	n/information on ingredients	
-		
• Description: A • Dangerous co	Mixture of the substances listed below with nonhazardous additions.	
-	Trypsin inhibitor, pancreatic basic	2.5-7
103476-89-7	L-leucinamide, N-acetyl-L-leucyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-	1-3%
	formylbutyl]-, sulfate (2:1)	

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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO_{2} extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Nitrogen oxides (NOx) Hydrogen chloride (HCl) Carbon monoxide and carbon dioxide
- · Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: No special measures required.
- · 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: Store in dry conditions.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

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Control parameters	
a	
	imit values that require monitoring at the workplace:
	not contain any relevant quantities of materials with critical values that have to
monitored at the wo	
Additional informa	tion: The lists that were valid during the creation were used as basis.
Exposure controls	
Personal protective	equipment:
	and hygienic measures:
	onary measures for handling chemicals should be followed.
	ent: Suitable respiratory protective device recommended.
Protection of hands	
The glove material	has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests the chemical mixtur	s no recommendation to the glove material can be given for the product/ the preparation re.
Selection of the g	love material on consideration of the penetration times, rates of diffusion and t
degradation	
Material of gloves	
quality and varies	
	bugh time has to be found out by the manufacturer of the protective gloves and has to
For the permanen suitable:	t contact of a maximum of 15 minutes gloves made of the following materials a
Natural rubber, NR	
Nitrile rubber, NBR	
	ety glasses
Eye protection: Saf	2.0

• Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
• Solubility in / Miscibility with Water at 20 °C (68 °F):	12.7 g/l
· Solvent content: Organic solvents:	0.0 %
Solids content:	100.0 %

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Safety Data Sheet acc. to OSHA HCS

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• Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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13 Disposal considerations

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· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- \cdot **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

Void
Void
Void
Void
No
Not applicable.
p f Not applicable.
Not dangerous according to the above specifications.
Void

15 Regulatory information

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

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

· Proposition 65

None of the ingredients is listed. • Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

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\cdot Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

- · Contact: +49 6221 13840-35
- Date of preparation / last revision 05/03/2018 / 1
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

ADR: Accora europeen sur le transport d Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit