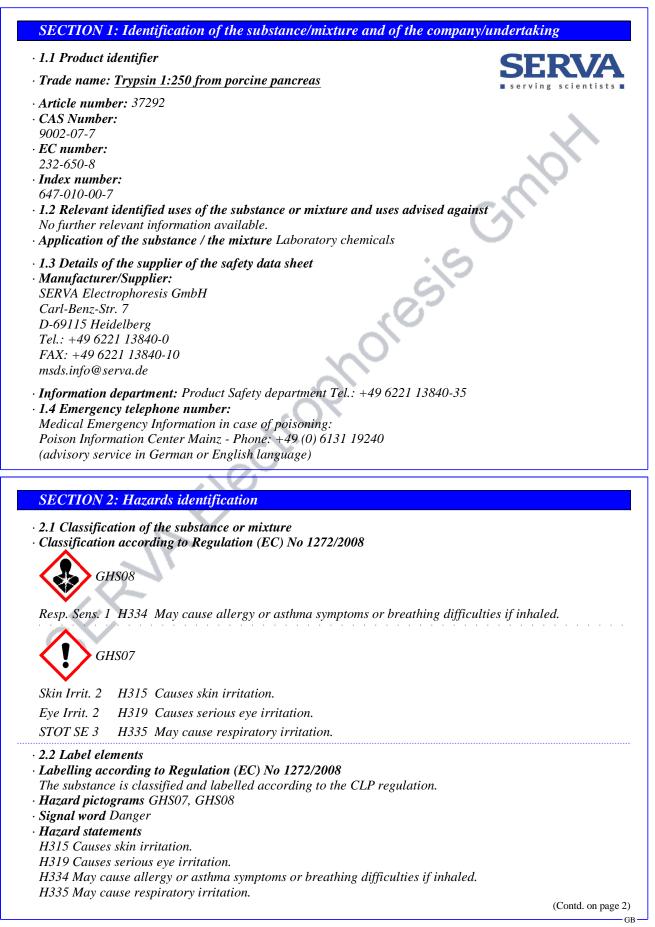
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· Precautionary s	statements
P261	Avoid breathing dust.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	
P304+P340	
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
D242 D211	present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
	ckages where the contents do not exceed 125 ml
	ams GHS07, GHS08
• Signal word Da	
• Hazard stateme	
•	e allergy or asthma symptoms or breathing difficulties if inhaled.
• Precautionary s	statements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	I = J = J = J = J
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
· 2.3 Other hazar	
	and vPvB assessment essment not available.
• vPvB: vPvB - as	ssessment not available.
SECTION 3.	Composition/information on ingredients
· 3.1 Chemical cl	haracterisation: Substances
· CAS No. Descri	iption:

- 9002-07-7 Trypsin
- Identification number(s):
- · EC number: 232-650-8
- · Index number: 647-010-00-7

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.
- · 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 Rinse out mouth and then drink plenty of water.
- · 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 formation of toxic vapours and gases is possible. In case of fire, the following can be formed, but not limited to: Carbon monoxide and carbon dioxide

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· 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
- 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

- · 8.1 Control parameters
- Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · 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:

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. Filter P2.

• Protection of hands:

Protective gloves.

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

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· 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.*

• *Eye protection: Tightly sealed goggles.*

• Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

SECTION 7. Thysical and chemical	
9.1 Information on basic physical and o	chemical properties
General Information	
· Appearance: Form:	lyophilisate
Colour:	white to almost white
Odour:	Odourless
Odour threshold:	Not determined.
Change in condition	
Melting point/freezing point:	undetermined
Initial boiling point and boiling range	e: undetermined
Flash point:	Not applicable
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:	Not determined.
Viscosity:	
dynamic:	no information available
kinematic:	no information available
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No further relevant informations available.

· 10.4 Conditions to avoid high ttemperatures

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- 10.5 Incompatible materials:
- Avoid contact with:
- Strong acids Strong oxidizers
- 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.
- · LD/LC50 values that are relevant for classification:

Oral LD50 >5,000 mg/kg (rat)

- 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.
- · Additional toxicological information:
- · 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 biodegradable
- 12.3 Bioaccumulative potential bioaccumulation potential is not to be expected
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: 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.
- · 12.6 Other adverse effects No further relevant information available.

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.

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

SECTION 14: Transport information			
· 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, ADN, IMDG, IATA · Class	Void		
· 14.4 Packing group · ADR, IMDG, IATA	Void		
· 14.5 Environmental hazards:	Not applicable.		
· 14.6 Special precautions for user	Not applicable.		
• 14.7 Transport in bulk according to Annex 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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II Substance is not listed.

· National regulations

- 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.

SECTION 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
- · Abbreviations and acronyms:
- 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
- *bw: body weight*

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: 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)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: 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 (Contd. of page 6)

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