



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Version: 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier : Substance Product form Substance name : Trypsin EC Index-No. : 647-010-00-7 EC-No. : 232-650-8 CAS-No. : 9002-07-7 Product code : 201700383 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : The product is intended for research, analysis and scientific education. Use of the substance/mixture : For professional use only Function or use category : Laboratory chemicals 1.2.2. Uses advised against Restrictions on use : Do not use : Ingestion, Inhalation, Dermal 1.3. Details of the supplier of the safety data sheet European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F-67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu 1.4. Emergency telephone number Emergency number : +33(0)390215608

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Respiratory sensitisation, Category 1	H334
Serious eye damage/eye irritation, Category 2	H319
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Respiratory	H335
tract irritation	
Full text of H- and EUH-statements: see section 16	

#### Adverse physicochemical, human health and environmental effects

Expert judgement and weight of evidence determination.

#### 2.2. Label elements

Hazard pictograms (CLP)



Signal word (CLP) Hazard statements (CLP) : Danger

: H315 - Causes skin irritation. H319 - Causes serious eye irritation.

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	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements (CLP) :	P261 - Avoid breathing dust.
,	P280 - Wear protective gloves.
	P284 - respiratory protection.
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or
	doctor/physician.
Labelling according to: exemption for inner packaging	where the contents do not exceed 10ml
Hazard pictograms (CLP) :	
	GHS08

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Trypsin	CAS-No.: 9002-07-7 EC-No.: 232-650-8 EC Index-No.: 647-010-00-7	≤ 100	Resp. Sens. 1, H334 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

#### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	;
First-aid measures after inhalation	: Move to fresh air. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of water/
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open.
First-aid measures after ingestion	: Rinse mouth. Specific medical surveillance. Prolonged medical observation may be indicated.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: Delayed adverse effects possible.
Symptoms/effects after inhalation	: Insufficient data available.
Symptoms/effects after skin contact	: Insufficient data available.
Symptoms/effects after eye contact	: Insufficient data available.

Symptoms/effects after ingestion : Symptoms may include dizziness, headache, nausea and loss of coordination.

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

Get medical advice/attention. If possible show this sheet, if not available show packaging or label. Active substance. Pharmaceutical.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Extinguishing blanket.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: See Heading 2.2.	
5.3. Advice for firefighters		
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	quipment and emergency procedures	
General measures	: Avoid any direct contact with the product. Do not breathe dust/fume/gas/mist/vapours/spray.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Wear suitable protective clothing, gloves and eye or face protection.	
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
No additional information available		
6.3. Methods and material for containm	nent and cleaning up	
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly. Wash the non-recoverable remainder with : Sodium hypochlorite solution.	
6.4. Peterence to other sections		

No additional information available

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.	
Precautions for safe handling	: Material should be handled with caution. Avoid any direct contact with the product. Material should be handled in a laboratory hood whenever possible.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.	
7.2. Conditions for safe storage, inclu	ding any incompatibilities	
Technical measures Storage conditions	<ul><li>Comply with applicable regulations.</li><li>Store locked up.</li></ul>	

### 7.3. Specific end use(s)

See Heading 1.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

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#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### **8.2. Exposure controls**

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Keep in a well-ventilated room. Use only in a exhaust booth with integrated air filter. High efficiency particulate air filter (HEPA filter).

#### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses. DIN EN 166

## 8.2.2.2. Skin protection

Skin and body protection: Use chemically protective clothing. DIN EN 13034

#### Hand protection:

Chemically resistant protective gloves. ISO 374-1

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

Dust production: dust mask with filter type P3. DIN EN 140 & 149. Liquid product : Aerosol mask. Wear breathing apparatus if exposed to vapours/dusts/aerosols

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

SECTION 9: Physical and	I chemical properties		
9.1. Information on basic ph	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: Not available		
Appearance	: Powder.		
Odour	: Not applicable.		
Odour threshold	: Not available		
Melting point	: 256 – 258 °C		
Freezing point	: Not available		
Boiling point	: Not available		
Flammability	: Not available		
Explosive limits	: Not applicable		
Lower explosion limit	: Not applicable		
Upper explosion limit	: Not applicable		
Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: Not available		
рН	: Not available		
pH solution	: Not available		

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Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle size	<ul> <li>Not applicable</li> <li>Not available</li> <li>Not applicable</li> <li>Not available</li> </ul>
Particle size	Not available

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
None under normal use. See Section 7.
10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

SECTION 11: Toxicological information		
11.1 Information on bazard classes	as defined in Regulation (EC) No 1272/2008	
11.1. Information on nazaru classes		
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	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

#### 11.2. Information on other hazards

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SECTION 12: Ecological information
12.1. Toxicity
Ecology - general       : Hazardous waste. Use suitable disposal containers.         Hazardous to the aquatic environment, short-term       : Not classified         'acute)       : Hazardous to the aquatic environment, long-term       : Not classified         'chronic)       : 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. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Dispose in a safe manner in accordance with local/national regulations.

### **SECTION 14: Transport information**

n accordance with ADR / IMDG / IATA				
ADR	IMDG	ΙΑΤΑ		
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable		
No supplementary information available				

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#### 14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

### Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

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

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not applicable.

#### **POP Regulation (Persistent Organic Pollutants)**

Not applicable.

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

SECTION 16: Other information		
Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

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Full text of H- and EUH-statements:		
H335	May cause respiratory irritation.	
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	

Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.