in accordance with Regulation (EC) No 1907/2006



Product name: Numaferm TEV protease

Overworked on the: 25.07.2022

Number of Socket: 1 Replaces version number:

SECTION 1: Name of the substance or mixture and the company

1.1 Product Identifier

Numacut[™] TEV protease

1.2 Relevant identified uses of the substance or mixture and uses discouraged Relevant identified uses

Biochemical Research/Analysis

Uses that are not recommended

none

1.3 Details of the supplier providing the safety data sheet

Supplier

Numaferm GmbH Merowingerplatz 1A D-40225 Dusseldorf

Phone / E-Mail

+49 211 5425 6443 / E-Mail: info@numaferm.com

1.4 Emergency number

+49 211 5425 6443

SECTION 2: Possible dangers

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

Irritation of the skin (category 2), H315

Eye irritation (category 2), H319

Sensitization by inhalation (category 1), H334

Sensitization by skin contact (category 1), H317

Specific target organ toxicity - single exposure (category 3), respiratory system, H335

For the full text of the hazard statements listed in this section, see Section 16.

2.2 Drawingelements

Regulation (EC) No. 1272/2008

Pictogram(s) and signal word of the product





Signal word: Danger

Warnings

H315: Causes skin irritation.

H317: May cause allergic skin reactions.

H319: Causes severe eye irritation.

H334: May cause allergy, asthma-like symptoms or difficulty breathing if inhaled.

H335: May irritate the respiratory tract.

Safety

P261 Avoid inhalation of dust/smoke/gas/mist/steam/aerosol.

P264 Wash skin thoroughly after use.

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P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IN CONTACT WITH THE SKIN: Wash with plenty of water.

P304 + P340 + P312 WHEN INHALING: Bring the person into the fresh air and ensure unhindered breathing. In case of malaise, call poison information center / doctor.

P305 + P351 + P338 IN CASE OF CONTACT WITH THE EYES: Rinse gently with water for a few minutes. If possible, remove any existing contact lenses. Continue to rinse.

Reduced marking (<= 125 mL)

Pictograph



Signal word danger

Indication(s) of danger

H334 May cause allergy, asthma-like symptoms, or difficulty breathing when inhaled.

H317 May cause allergic skin reactions.

Precautions

P261 Avoid inhalation of dust/smoke/gas/mist/steam/aerosol.

P302 + P352 IN CASE OF CONTACT WITH THE SKIN: Wash with plenty of water.

P304 + P340 + P312 WHEN INHALING: Bring the person into the fresh air and ensure unhindered breathing. In case of malaise, call poison information center / doctor.

2.3 Other hazards

This substance/mixture does not contain components in concentrations of 0,1 % or higher classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on constituents

3.2 Farragoes

Composition/information on constituents

Ingredient: TEV protease CAS No.: 139946-51-3

Classification: Skin Irrit. 2; Eye irritant. 2; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H315, H319, H334, H317, H335 Concentration >= 25 - < 35 %

The text of the hazard statements cited is set out in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

First responders need to protect themselves. Show this safety data sheet to the attending physician.

After inhalation:

After inhalation: fresh air. Consult a doctor.

After skin contact:

After skin contact: Remove all contaminated garments immediately. Wash skin with water / shower. Consult a doctor.

After eye contact:

After eye contact: Rinse with plenty of water. Consult an ophthalmologist. Remove contact lenses.

After swallowing:

After swallowing: Drink water immediately (maximum 2 drinking glasses). Consult a doctor.

4.2 Main acute and delayed symptoms and effects

The main known symptoms and effects are described on the label (see section 2.2) and/or in Chapter 11

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^{*}A registration number for this substance is not available because the substance or its use are exempt from registration under Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require registration or registration is planned for a later date. For the full text of the hazard statements listed in this section, see Section 16.

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4.3 Indications of immediate medical assistance or special treatment

No data available

SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Water Foam Carbon Dioxide (CO2) Extinguishing Powder

Suitable extinguishing agents

There are no extinguishing agent restrictions for this substance/mixture.

5.2 Specific hazards posed by the substance or mixture

Combustible. In the event of a fire, dangerous fire gases or vapours may be produced.

5.3 Notes for firefighting

Stay in the danger zone only with breathing apparatus independent of circulating air . Avoid skin contact by maintaining a safe distance or wearing suitable protective clothing.

SECTION 6: Measures in case of accidental release

6.1 Personal precautions, protective equipment and procedures to be followed in emergencies

Note for personnel not trained for emergencies: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Clearing the danger zone, proceeding according to the emergency plan, involving experts. Personal protective equipment see section 8.

6.2 Environmental protection

Do not let it get into the sewers.

6.3 Methods and material for retention and cleaning

Seal sewerage. Collect, dike and pump out. Observe possible material restrictions! (See Section 7 and Section 10, respectively). Carefully record. Dispose of. Clean. Avoid dust generation.

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Instructions for safe handling

Carry out work under deduction. Do not inhale the substance/mixture.

Notes on Hygiene

Change contaminated clothing immediately. Preventive skin protection. Wash hands and face after work. Information on protective measures can be found in section 2.2.

7.2 Conditions for safe storage, taking into account intolerances

Requirements for storage rooms and containers

Tightly sealed. Dry. Keep under lock and key or accessible only to experts or their agents. Recommended storage temperature see product label.

Storage class (TRGS 510): 11: Flammable solids

7.3 Specific end applications

Apart from the uses referred to in Section 1.2, no other specific uses are foreseen.

SECTION 8: Limitation and monitoring of exposure/Personal protective equipment

8.1 Parameters to monitor

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Does not contain substances with occupational exposure limit values.

8.2 Limitation and monitoring of exposition / Personal protective equipment

Personal protective equipment

Eye/face protection

For eye protection, only use equipment that has been tested and approved according to official standards, such as NIOSH (US) or EN 166 (EU). Safety glasses

Skinprotection

This recommendation only applies to the product mentioned in the safety data sheet that is supplied by us and the intended use specified by us. In the case of solution in or mixing with other substances and in the case of conditions deviating from EN374, you must contact the supplier of CE approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Breakthrough time: > 480 min This recommendation only applies to the product mentioned in the safety data sheet that is supplied by us and the intended use specified by us. In the case of solution in or when mixing with other substances and in the case of conditions deviating from EN374, you must contact the supplier of CE approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Spray contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Breakthrough time: > 480 min

Respiratory

Recommended filter type: Filter P 2 The operator must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the manufacturer's user information and documented accordingly if dust occurs. Our recommendations for respiratory protection filters are based on the following standards: DIN EN 143, DIN 14387 and related standards for respiratory protection systems. Recommended filter type: Filter type P2 The operator shall ensure that the maintenance, cleaning and testing of respiratory protective devices are carried out in accordance with the manufacturer's user information and documented accordingly.

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Parameter	Value	Method	Remark
a)	State of matter	Solid/Powder		
b)	Colour	Bright yellow		
c)	Smell	uncharacteristic		
d)	Melting point/freezing point	No data available		
e)	Boiling point or boiling point and boiling area	No data available		
f)	Inflammability	No data available		
g)	Lower explosion limit	No data available		
	upper explosion limit			
h)	Flash point	No data available		
i)	Ignition temperature	No data available		
j)	Decomposition temperature	No data available		
k)	pH	No data available		
(l)	Kinematic viscosity	No data available		
m)	Solubility	soluble		
n)	Partition coefficient n-octanol/water (log value)	No data available		
0)	Vapor pressure	No data available		
p)	Density and/or relative density	No data available		
q)	Relative vapour density	No data available		
r)	Particle properties	No data available		

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

For combustible, organic substances and mixtures in general, the following applies: With a correspondingly fine distribution, a dust explosive capacity is generally to be assumed in a whirled-up state.

10.2 Chemical stability

The product is chemically stable under normal environmental conditions (room temperature).

10.3 Possibility of dangerous reactions

Violent reactions possible with: Strong oxidizing agents

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

No data available

10.6 Dangerous decomposition products

In case of fire: see Chapter 5

SECTION 11: Toxicologicaldata

11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

acute toxicity

Symptoms: Mucosal irritation in the mouth, throat, esophagus and gastrointestinal tract. Symptoms: Possible symptoms: Mucosal irritation, Cough, Shortness of breath, Possible

consequences: Damage to the respiratory tract Skin: No data available

Corrosive/irritanteffect on the skin

Mixture causes skin irritation.

Severe eye damage/irritation

Mixture causes severe eye irritation.

Sensitization of the respiratory tract/skin

Mixture can cause allergy, asthma-like symptoms or difficulty breathing when inhaled. Mixture can cause allergic skin reactions.

Germ cellmutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity at single exposure

Mixture can irritate the respiratory tract.

Specific target organ toxicity with repeated exposure

No data available

Risk of aspiration

No data available

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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain constituents that have endocrine disrupting properties in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0,1 % or more.

Other dangerous properties cannot be excluded.

The usual precautions when handling chemicals must be observed.

11.2.2 Other information

SECTION 12: Environmental information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in the soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture does not contain components in concentrations of 0.1~% or higher classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Evaluation: The substance/mixture does not contain constituents that have endocrine disrupting properties in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7. Other harmful effects

No data available

SECTION 13: <u>Instructions for disposal</u>

13.1 Waste treatment process

Product:

Comply with waste directive 2008/98/EC. Product residues must be disposed of in compliance with national and regional regulations. Leave chemicals in original containers. Do not mix with other waste. Uncleaned containers must be treated according to the product. Find out more about take-back systems for chemicals and packaging at www.Retrologistik.de or use the address to contact us if you have any questions.

SECTION 14: Transport information

14.1 UN number or ID number

14.2 Proper UN shipping designation

ADR/RID: No dangerous goods IMDG: No dangerous goods IATA: No dangerous goods

14.3 Transport hazard classes

ADR / RID / IMDG code / ICAO-TI / IATA-DGR

14.4 Packaging Group

VP III:

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14.5 Environmental hazards

Labels of substances hazardous to the environment

ADR/ RID / IMDG code: no ICAO-TI / IATA-DGR: no

14.6 Special precautions for the user

see sections 6 - 8

14.7 Bulk transport by sea according to IMO instruments

SECTION 15: Legislation

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

EU rules

Regulation (EC) No 1005/2009 (substances that deplete the ozone layer):

Regulation (EC) No 850/2004 (Pfirst organic pollutants):

Regulation (EC) No6-49/2012 (export and import of dangerous chemicals):

Regulation (EC) No 648/2004 (Detergents Regulation):

Authorisations under Title VII of Regulation (EC) No 1907/2006:

Restrictions referred to in Title VIII of Regulation (EC) No 1907/2006:

National regulations

Water hazard class

Reference to Technical Rules for Hazardous Substances (TRGS)

Solvent Ordinance (31st BImSchV)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product

SECTION 16: Other information

Full text of the hazard statements in sections 2 and 3.

H315 Causes skin irritation.

H317 May cause allergic skin reactions.

H319 Causes severe eye irritation.

H334 May cause allergy, asthma-like symptoms, or difficulty breathing when inhaled.

H335 May irritate the respiratory tract.

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