Printing date 04/12/2023

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Reviewed on 04/12/2023

1 Identification 9. Poduct identifier • Arcide name: Collagenase NB 6 GMP Grade Inconclostriblium histolyticum • Arcide name: Collagenase NB 6 GMP Grade Inconclostriblium histolyticum • Arcide name: Collagenase NB 6 GMP Grade Inconclostriblium histolyticum • Arcide name: Collagenase NB 6 GMP Grade Inconclostriblium histolyticum • Arcide name: 9001-21 • Arcide name: 9001-21 • Camber: 9001-21 • Camber: 9002-21 • Camber: 9002-21 • Camber: 9003-21 • Camber: 9003-21 • Camber: 9003-21 • Camber: 90040000000000000000000000000000000000	1 Hining date 04/12/2025	<i>Revieweu 0h 04/12/2023</i>
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 Trade name: Collagenase NB & GMP Grade <u>incon Clostridium histolyticum</u> Article number: N0002779, N002880 CAS Number: 9001-12-1 EC number: 323-582-9 Application of the substance / the mixture: Laboratory chemicals Details of the supplier of the safety data sheet Manufacturer/Supplier: Nordmark Pharma GmbH Pinmaudlee 4 D-25456 Uctersen Tel:: +49 4122 712-0 FAX:: +49 4122 712-200 sicherheitsdatenblatt@nordmark-pharma.de Information department: Product Safety department Tel:: +49 4122 712-7120 Emergency Information in case of poisoning: Poison Information Center Göttingen - Phone: +49 (0) 551 19240 (advisory service in German or English language) 2 Hazard(s) identification Classification - Respiratory 1 H314 May cause allergy or asthma symptoms or breaking difficulties if inhaled. Poison Information Conter Göttingen - Phone: +49 (0) 551 19240 (advisory service in German or English language) 2 Hazard(s) identification Classification - Respiratory 1 H315 Causes skin irritation. Eye Irritation 2 M315 Causes skin irritation. Eye Irritation 2 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. Hadel elements Class stance is classified and labeled according to the Globally Harmonized System (GHS). Hazard betweenets: Gauses stin irritation. May cause respiratory irritation. <l< th=""><th></th><th></th></l<>		
Article number: N0002779, N0002789 CAS Number: 9001-12-1 9001-1	· Product identifier	
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 Details of the supplier of the safety data sheet Manufacturer/Supplier: Nordmark Pharma GmbH Pinnauallee 4 D-25450 Olersens Tel: +49 4122 712-20 FAX: +49 4122 712-20 Sicherheitsdatenblatt@nordmark-pharma.de Information department: Product Safety department Tel.: +49 4122 712-7120 Emergency telephone number: Medical Emergency Information in case of poisoning: Poison Information Center Göttingen - Phone: +49 (10) 551 19240 (advisory service in German or English language) 2 Hazard(s) identification classification of the substance or mixture Wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	• CAS Number: 9001-12-1 • EC number: 232-582-9	pratory chemicals
 Emergency telephone number: Medical Emergency Information in case of poisoning: Poison Information Center Göttingen - Phone: +49 (0) 551 19240 (advisory service in German or English language) 2 Hazard(s) identification Classification of the substance or mixture 	Manufacturer/Supplier: Nordmark Pharma GmbH Pinnauallee 4 D-25436 Uetersen Tel.: +49 4122 712-0 FAX.: +49 4122 712-220	
 Classification of the substance or mixture GHS08 Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. GHS07 Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. Label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard statements: Causes skin irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or irritation. 	• Emergency telephone number: Medical Emergency Information in case of poiso Poison Information Center Göttingen - Phone: ++	ning: 49 (0) 551 19240
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		(Contd. on page 2)

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Trade name: Collagenase NB 6 GMP Grade from Clostridium histolyticum

(Contd. of page 1) · Precautionary statements Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves / eye protection / face protection. Wear respiratory protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0*Reactivity* = 0· HMIS-ratings (scale 0 - 4) HEALTH *2 *Health* = *2 FIRF 0 Fire = 0*Reactivity* = 0REACTIVITY 0 • Other hazards · Results of PBT and vPvB assessment: · **PBT:** PBT - assessment not available. · **vPvB**: vPvB - assessment not available. **3** Composition/information on ingredients · Chemical characterization: Substances · CAS No. Description: 9001-12-1 Collagenase • Identification number(s): · EC number: 232-582-9 · Description: · MW: ca. 95000

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4 First-aid measures

- · 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.

Remove contaminated clothing immediately.

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(Contd. of page 2)

• 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 immediately.

- After swallowing: Wash out mouth Drink plenty of water and supply fresh air. Seek medical ad-
- Wash out mouth. Drink plenty of water and supply fresh air. Seek medical advice if discomfort occurs.
- 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:
- CO2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture Formation of dangerous gases or vapours is possible in case of fire. In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Sulphur oxides (SOx)
- · 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.
 Ensure adequate ventilation Avoid formation of dust.
 Do not inhale dusts.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up Dispose contaminated material as waste according to item 13. Pick up mechanically.*
- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.
- 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.

7 Handling and storage

- **Precautions for safe handling:** Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
- · Information about protection against explosions and fires: Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- \cdot Requirements to be met by storerooms and receptacles: Store at +2 to +8 °C
- · Information about storage in one common storage facility: Not required.

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(Contd. of page 3)

• *Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.* • *Specific end use(s):* No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · 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.
- · Exposure controls
- Additional information about design of technical systems: No further data; see item 7.
- · 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
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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

• 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.

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Natural rubber, NR Nitrile rubber, NBR
- Eye protection: Safety glasses
- · Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information:		
· Color:	Light brown	
· Odor:	Weak, characteristic	
• Odor threshold:	Not determined.	
• Melting point/Melting range:	no information available	
 Boiling point/Boiling range: 	no information available	
· Flammability (solid, gaseous):	Product is not flammable.	
• Explosion limits:		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	

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Trade name: Collagenase NB 6 GMP Grade from Clostridium histolyticum

	(Contd. of page 4
· Decomposition temperature:	Not determined.
· pH-value:	6-7
Viscosity:	
Kinematic viscosity:	Not applicable.
Dynamic viscosity:	Not applicable.
Solubility in / Miscibility with:	
Water at 20 °C (68 °F):	300 g/l
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not applicable.
Density:	no information available
Relative density:	Not determined.
• Other information	
Appearance:	
Form:	lyophilisate
Important information on protection of healt	h and
environment, and on safety:	
Danger of explosion:	Product is not explosive. However, formation of
_	explosive dust-/air mixtures are possible.
· Molecular weight	~95,000 g/mol

10 Stability and reactivity

- *Reactivity:* No further relevant informations available
- · Chemical stability:
- Thermal decomposition / conditions to be avoided: Protein denaturation
- · Possibility of hazardous reactions: No further relevant informations available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: In case of fire: See Section 5

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- on the skin: Causes skin irritation.
- on the eye: Causes serious eye irritation.
- · Sensitization:
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- · Specific target organ toxicity single exposure: May cause respiratory irritation.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity:
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.

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(Contd. of page 5)

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

· General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

· 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 Transport information

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	Void
· Class · Label	
· ADN/R Class:	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
• Environmental hazards • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex 1 MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Section 355 (extremely hazardous substances): Substance is not listed.

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Reviewed on 04/12/2023 Printing date 04/12/2023 Trade name: Collagenase NB 6 GMP Grade from Clostridium histolyticum (Contd. of page 6) • Section 313 (Specific toxic chemical listings): Substance is not listed. • TSCA (Toxic Substances Control Act): ACTIVE · Hazardous Air Pollutants Substance is not listed. · Proposition 65 Substance is not listed. · Chemicals known to cause cancer: Substance is not listed. · Chemicals known to cause reproductive toxicity for females: Substance is not listed. · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed. · Cancerogenity categories · EPA (Environmental Protection Agency) Substance is not listed. · TLV (Threshold Limit Value) Substance is not listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07, GHS08 · Signal word Danger · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. · Precautionary statements Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves / eye protection / face protection. Wear respiratory protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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: Tel.: +49 4122 712-7120

• Date of preparation / last revision 04/12/2023

• 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

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(Contd. of page 7)
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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial 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
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3