

Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Version 1.0, valid as of October 18, 2016

Section 1: Product and Company Information

1.1. Product identifiers

Product Name : DENARASE, 100 kU, 500 kU, 1 MU, 5 MU
Article Nr : 20804-100k, 20804-500k, 20804-1M, 20804-5M
Company : c-LEcta

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Enzyme for the degradation of DNA and RNA in liquids.
For industrial use only.

1.3. Details of the supplier of the safety data sheet

Company : c-LEcta GmbH, Perlickstraße 5, 04103 Leipzig, Germany
Telephone : +49 341 3552140
Fax : +49 341 35521433
Email adress : contact@c-LEcta.com

1.4. Emergency telephone number

Emergency Phone # : + 49 341 3552140

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

The product does not need to be labelled in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

none

Section 3: Composition/Information on Ingredients

3.1. Substances

3.2. Mixtures

No components need to be disclosed according to the applicable regulation.

Section 4: First Aid Measures

4.1. Description of first aid measures

After inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After skin contact

Wash off with soap and plenty of water.

After eye contact

Flush eyes with water as a precaution.

After ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

Section 5: Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products is not known.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4. Further information

No data available

Section 6: Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid formation of aerosols and dust. Avoid breathing aerosols and dust (can be formed in case of improper use). Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material without creating aerosols and dispose of as described in section 13. Avoid skin contact. Keep in suitable, closed containers for disposal.

6.4. Reference to other Sections

For disposal see section 13.

Section 7: Handling and Storage**7.1. Precautions for safe handling**

Avoid formation and inhalation of aerosols and dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where aerosols are formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Recommend storage temperature: -20 °C.

7.3. Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls / Personal Protection**8.1. Control parameters****Components with workplace control parameters**

Does not contain components with workplace control parameters.

8.2. Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

a) Appearance	Form: liquid Colour: clear, transparent
b) Odour	no data available
c) Odour threshold	no data available
d) pH	8.2
e) Melting point/Freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2. Other safety information

No data available

Section 10: Stability and Reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Materials to avoid

No data available

10.6. Hazardous decomposition products

No data available

Section 11: Toxicological Information**11.1. Information on toxicological effects****Acute Toxicity**

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May be harmful/irritant if inhaled.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin sensitization and/or irritation.
Eyes	May cause eye irritation.

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. PBT- and vPvB-Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6. Other adverse effect

No data available

Section 13: Disposal consideration**13.1. Waste treatment methods****Recommendation**

Dispose of in compliance with the respective local/regional/national/international regulations.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information**14.1. UN-number**

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4. Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5. Environmental hazards

ADR/RID:

IMDG: -

IATA: -

14.6. Special precautions for user

No data available

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16: OTHER INFORMATION**Further Information**

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The above information is believed to be correct and true but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

The manufacturer does not have any influence on the conditions of product application. The user is therefore obliged to define appropriate safety measures for product handling. The information on this MSDS does not contain any analytical specifications. In this context, the respective product data sheet is applicable. c-LEcta GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.
