1 Identification of substance:

- **Product details:**
- **Trade name:** Dextranase
- **Application of the substance / the preparation:** Laboratory chemicals
- **Manufacturer/Supplier:**
  Cellendes GmbH
  Markwiesenstr. 55
  72770 Reutlingen
  Telephone: ++49 7121 15940 0
  Fax: ++49 7121 15940 99
  info@cellendes.com
  www.cellendes.com
- **Informing department:**
  Dr. Helmut Wurst
  Telephone: ++49 7121 15940 0
- **Emergency information:**
  Dr. Helmut Wurst
  Telephone: ++49 7121 15940 0
  (8 - 16 hour)

2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
  The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **GHS label elements** Void

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aqueous solution of dextranase (from Chaetomium gracile), CAS-# 9025-70-1, EC-# 232-803-9
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
  Take affected persons into the open air and position comfortably
  Seek medical treatment in case of complaints.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
  Rinse the mouth with water immediately
  Seek immediate medical advice.

5 Fire fighting measures

- **Suitable extinguishing agents**
  CO₂ extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
  -
- **Protective equipment:** Wear self-contained breathing apparatus.

(Contd. on page 2)
6 Accidental release measures

- Person-related safety precautions: Avoid contact with eyes and skin.
- Measures for environmental protection:
  Do not allow product to reach sewage system or water bodies.
  Do not allow to enter the ground/soil.
- Measures for cleaning/colllecting:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of the material collected according to regulations.
- Additional information: See Section 13 for information on disposal.

7 Handling and storage

- Handling
  Information for safe handling:
  The usual precautionary measures for handling chemicals must be observed.
  Avoid contact with the eyes and skin.
- Information about protection against explosions and fires: No special measures required.

- Storage
  Requirements to be met by storerooms and containers: Store only in the original container.
  Information about storage in one common storage facility:
  Store away from foodstuffs.
  Store away from oxidizing agents.
  Further information about storage conditions: Keep container tightly sealed.
  Recommended storage temperature: below 20°C, do not freeze

8 Exposure controls and personal protection

- 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 compilation were used as basis.
- Personal protective equipment
  General protective and hygienic measures
  Keep away from foodstuffs, beverages and food.
  Do not eat, drink or smoke while working.
  Wash hands during breaks and at the end of the work.
  Avoid contact with the eyes and skin.
  Take off immediately all contaminated clothing
  Breathing equipment: Not required.
Trade name: Dextranase

- Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- As protection from splashes gloves made of the following materials are suitable: PVC gloves

- Not suitable are gloves made of the following materials:

  - Leather gloves
  - Strong gloves

- Eye protection:

  Tightly sealed safety glasses.

- Body protection: Protective work clothing.

9 Physical and chemical properties:

<table>
<thead>
<tr>
<th>General Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour:</td>
<td>Brownish</td>
</tr>
<tr>
<td>Odour:</td>
<td>Weak, non-distinctive</td>
</tr>
</tbody>
</table>

- Change in condition

  - Melting point/Melting range: Not determined
  - Boiling point/Boiling range: 100°C

- Flash point: Not applicable

- Self-inflammability: Product is not self igniting.

- Danger of explosion: Product is not explosive.

- Density: Not determined

- Solubility in / Miscibility with Water: mixable

(Contd. on page 4)
10 Stability and reactivity
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided: strong oxidizing agents
- Dangerous reactions none, if used as directed
- Dangerous products of decomposition: none, if stored and handled correctly.

11 Toxicological information
- Acute toxicity: no data available
- Primary irritant effect:
  - on the skin: irritative effect possible
  - on the eye: irritative effect possible
- Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
- Additional toxicological information:
  Caution - substance not yet tested completely
  Possibly harmful by inhalation, harmful if swallowed and harmful in contact with skin.
  The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
  When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:
- Ecotoxic effects: Not determined
- Additional ecological information:
- General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
  Do not allow product to reach ground water, water bodies or sewage system.

13 Disposal considerations
- Product:
- Recommendation For disposal, local regulations issued by the authorities must be observed.
- Uncleaned packagings:
- Recommendation: Dispose of as unused product. Disposal must be made according to official regulations.

14 Transport information
- Land transport ADR/RID (cross-border)
  - ADR/RID-GGVS/E Class: -
- Maritime transport IMDG:
  - IMDG Class: -
- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: -
- UN "Model Regulation": -
- Transport/Additional information: Not dangerous according to the above specifications.
These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**
  Cellendes GmbH
  Markwiesenstr. 55
  D-72770 Reutlingen
  Fax: ++49 7121 15940 99  [http://www.cellendes.com](http://www.cellendes.com)  [info@cellendes.com](mailto:info@cellendes.com)

- **Contact:**
  Apotheker N. Clausen ([nils.clausen@cellendes.com](mailto:nils.clausen@cellendes.com))

**Abbreviations and acronyms:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the “International Civil Aviation Organization” (ICAO)

**15 Regulatory information**

- **Designation according to EC guidelines:**
  Observe the normal safety regulations when handling chemicals
  The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
  The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
  Warning - contains substance not yet fully tested

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**16 Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Designation according to EC guidelines:**
  Observe the normal safety regulations when handling chemicals
  The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
  The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
  Warning - contains substance not yet fully tested

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**Abbreviations and acronyms:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the “International Civil Aviation Organization” (ICAO)