1. Name of substance/preparation and company

1.1 Commercial product:

   Glucose Oxidase, rec., lyo.

   Cat.-No.:

   2208121

1.2 Company:

   Roche Diagnostics GmbH

   Sandhoferstr. 116

   D-68305 Mannheim

   Tel. ++49-621-7590

   Information obtainable from: ++49-621-759-2763 or ++49-621-759-4848

1.3 In Emergencies:

   Central Works Security Roche Diagnostics GmbH ++49-621-759-2211

   Centre for Detoxification: Mainz ++49-6131-232466-232467

   München ++49-89-19240

2. Composition/Information on constituents

   CAS-No.:

   0009001-37-0

   Molecular formula:

   Molecular weight:

   0

   Notes:

   Is to be classified according to EEC directive 67/548 and 88/379 as hazardous.

   Classification:

   Harmful

3. Hazards identification

   Warnings:

   20/22 Harmful by inhalation and if swallowed

   42/43 May cause sensitization by inhalation and skin contact

   Notes:

   Substance slightly hazardous to water and ground water

4. First aid measures

   First aid:

   Eye contact: Wash eyes with water for at least 15 minutes.

   Skin contact: Wash off with water.

   Ingestion: Seek medical advice.

   Inhalation: Remove victim to fresh air, if malaise develops go to a physician.

   Instructions for physician:

   Symptomatic treatment by a physician.

5. Fire-fighting measures

   Extinguishing media:

   No restriction

   Thermal decomposition:

   Dangerous decomposition is not anticipated.

6. Accidental release measures

   After spillage:

   Sweep up spilled substance in dry condition, avoiding dust formation.

   Absorbent material:

   Not necessary.

   Damage limitation:

   Special measures to limit damage are not necessary.

7. Handling and storage

   7.1 Handling:

   Combustible substance.

   Avoid formation of dust.

   7.2 Storage:

   Store dry at + 4 C.

   Do not store with:

   No restriction
8. Exposure controls/personal protection

- TLV: undefined
- Respiratory protection: Filter against harmful dust in case of contact with the substance
- Eye protection: prot.glasses
- Hand protection: protective gloves
- Hygiene: Wash hands before breaks and at the end of the work.

9. Physical and chemical properties

- Physical state: solid
- Colour: yellowish brown
- Odour: odourless
- pH: 7.0(at 1 G/L H2O)
- Boiling point: no data available
- Melting point: no data available
- Flash point: cannot be determined
- Substance does not have any oxidizing properties
- Ignition temperature: no data available
- Explosion limits: no data available
- Vapour pressure: cannot be determined
- Density: no data available
- Solubility in water: > 1 g/l (at 25 C)
- Viscosity: cannot be determined

10. Stability and reactivity

- Hazardous: None known when used appropriately.
- Hazardous decomposition products: None

11. Toxicological information

- LD50 oral: not known
- LD50 intravenous: 13 mg/kg (mouse)
- LD50 skin: not known
- LD50 inhal: not known

Toxicologic information: Substance may cause allergies

12. Ecological information

- Hazards: Substance slightly hazardous to water and ground water

13. Disposal considerations

- Waste disposal route: Can be sent to an incineration plant in accordance with local regulations.
- Disposal of emptied packs: Dispose of empty packs via local recycling or waste disposal routes - if necessary, clean them beforehand.
14. Transport information

<table>
<thead>
<tr>
<th>RID/ADR:</th>
<th>UN-No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICAO/IATA:</td>
<td>MFAG:</td>
</tr>
<tr>
<td>IMDG-Code:</td>
<td>EMS:</td>
</tr>
</tbody>
</table>

Proper Shipping Name: Is not subject to current regulations for transportation of hazardous goods (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO).

15. Regulatory

<table>
<thead>
<tr>
<th>Notes:</th>
<th>This product must be labeled in accordance with EEC directive 67/548 and 88/379.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard symbol:</td>
<td>Xn</td>
</tr>
<tr>
<td>Warnings:</td>
<td>see section 3.</td>
</tr>
<tr>
<td>Precautions:</td>
<td>Keep container tightly closed</td>
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<tr>
<td></td>
<td>Keep away from food, drink and animal feeding stuff</td>
</tr>
<tr>
<td></td>
<td>Do not breathe dust</td>
</tr>
<tr>
<td></td>
<td>Avoid contact with skin</td>
</tr>
</tbody>
</table>

16. Other information

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed. Special permission has been granted in accordance with EU Directive 88/379, Article 9, which permit small packages of up to 125 ml or g containing materials that are harmful to health or irritant to be unlabelled with the hazard identification information given in the safety data sheet.