

SAFETY DATA SHEET

According to EC Directive 1907/2006/EC



Glucose Oxidase, rec., lyophilizate

Version 1.1
Processing date 07.09.2009

Page 1/4
Printing date 11.07.2011

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

| | | |
|----------------------------|---|---|
| Commercial Product Name: | Glucose Oxidase, rec., lyophilizate | |
| Mat.-No./ Genisys-No.: | 12208121001 | |
| Intended use: | Laboratory use | |
| Company: | Roche Diagnostic Canada 201 Boulevard Armand-Frappier 116 H7V 4A2 Laval, QC, Canada | |
| E-mail: | laval.techinfo@roche.com | |
| Telephone: | 1-877-273-3433 | |
| Telefax: | 1-877-686-1598 | |
| Responsible Department: | Roche Care Center +49(0)621-759-4848 +49(0)8856-60-2629 | |
| In case of emergencies: | CHEMTREC | 1-800-424-9300 |
| Centre for detoxification: | Canadian Association of Poison Control Centres München | http://www.capcc.ca +49(0)89-19240 |

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Is to be classified according to EEC directive 67/548 and 99/45 as hazardous.

The usual precautions taken when handling chemicals should be observed.

Classification: Harmful

Warnings: R20/22 Harmful by inhalation and if swallowed.
R42/43 May cause sensitization by inhalation and skin contact.

Note: slightly hazardous to water and ground

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients: Glucose-Oxidase
Labelling: Xn; R20/22-R42/43; S22-S24-S37-S45

Ingredients Glucose-Oxidase (GOD) from *Aspergillus niger*; CAS-No. 9001-37-0
Labelling: Xn; R20/22-R42/43; S22-S24-S37-S45

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Page 2/4
Printing date 11.07.2011

4. FIRST AID MEASURES

| | |
|-----------------------------|---|
| General advice: | Show this safety data sheet to the doctor in attendance. |
| Inhalation: | Remove victim to fresh air, if malaise develops go to a physician. |
| Skin contact: | Wash skin with water thoroughly. |
| Eye contact: | Promptly wash eyes with water for at least 15 minutes, seek medical advice. |
| Ingestion: | If accidentally swallowed obtain immediate medical attention. |
| Instructions for physician: | Symptomatic treatment by a physician. |

5. FIRE-FIGHTING MEASURES

| | |
|----------------------|---|
| Extinguishing media: | No restriction. |
| Decomposition: | Dangerous decomposition is not anticipated. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------------|--|
| Actions to be taken on spillage: | Sweep up spilled solids in dry condition, avoiding dust formation. |
| Absorbent material: | Not necessary. |
| Actions to be taken to limit damage: | Special measures to limit damage are not necessary. |

7. HANDLING AND STORAGE

| | |
|-----------------------------|---|
| Handling: | Combustible substance. Avoid formation of dust; dust extraction by suction is required for procedures associated with dust formation. |
| Storage: | at 2~ 8°C 36~ 46°F. |
| Do not store together with: | No restriction. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

| | |
|-------------------------|---|
| Respiratory protection: | Filter P2 only in the case of a given exposure. |
| Eye protection: | Safety glasses |
| Hand protection: | Protective gloves |
| Hygiene measures: | Wash hands before breaks and at the end of workday. |

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Page 3/4
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form: solid
Colour: yellowish-brown
Odour: none
pH: 7,0
Fire promoting: Substance does not have any oxidizing properties.
Water solubility: > 1,0 g/l at 25 °C

10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use
Hazardous decomposition products: No data available

11. TOXICOLOGICAL INFORMATION

Toxicological data of ingredients

Glucose-Oxidase (GOD) from Aspergillus niger

Toxicity (others): LD50 intravenous mouse 13 mg/kg
LD50 intraperitoneal mouse 3 mg/kg
LD50 subcutane mouse 4,5 mg/kg
LD50 subcutane rabbit 7,5 mg/kg

Toxicological information for the product

Intoxication has so far not become known. Substance/product may cause allergies.

12. ECOLOGICAL INFORMATION

Water hazard class: 1
Self-classification

13. DISPOSAL CONSIDERATIONS

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

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Page 4/4
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Retail packages of biochemical and diagnostics catalog merchandise are recycled through the acquisition of licenses in "Der Grüne Punkt". Contaminated primary packaging materials of diagnostics catalog merchandise in the sense of § 7 of the Packaging Ordinance are disposed of legally through the company Interseroh.

14. TRANSPORT INFORMATION

Is not subject to current regulations for transportation of dangerous goods (ADR/RID, IMDG, IATA/ICAO)

15. REGULATORY INFORMATION

Labelling according to EC-Directives

| | | |
|----------------|---|---|
| Note: | This product must be labeled in accordance with EEC directive 67/548 and 99/45. | |
| Hazard symbol: | Xn | Harmful |
| Warnings: | R20/22 | Harmful by inhalation and if swallowed. |
| | R42/43 | May cause sensitization by inhalation and skin contact. |
| Safety advice: | S22 | Do not breathe dust. |
| | S24 | Avoid contact with the skin. |
| | S37 | Wear suitable gloves. |
| | S45 | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |

National regulations

German BetriebssicherheitsVO: Not subject to German Ordinance on Industrial Health and Safety (formerly Regulations on Flammable Liquids).

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16. OTHER INFORMATION

Further 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.