

# 1. Identification of the substance/preparation and of the company

| Product name<br>Usage     | BIOSOL<br>Fertilizer  |
|---------------------------|---|
| Company name              | Sandoz GmbH<br>Biochemiestrasse 10<br>6250 Kundl / Tirol<br>Austria |
| Emergency phone<br>number | +43 5338 200 0, E-Mail: sds.support@novartis.com                    |

# 2. Hazards identification

Pictogram, Signal Word No classification required according REGULATION (EC) NO 1272/2008

Hazard statementsSpecific hazardsIn case of moisture exothermal biogenic processes possible.Classification according EU Directive 67/548/EEC or 1999/45/EC see chapter 15

# 3. Composition / information on ingredients

#### Chemical characterisation of the substance / preparation:

Chemical NameDry MyceliumFor TLV values of declared components, see chapter 8Full text of H-Phrases see under chapter 16

# 4. First aid measures

| Inhalation   | Remove the victim from danger zone, avoid further exposure.  |
|--------------|--|
| Skin Contact | Rinse contaminated skin with plenty of water.  |
| Eye Contact  | Immediately rinse eyes thoroughly with running water as long as possible (approx. 15 min).<br>Take injured quickly to factory medical center or call an ambulance (code word: eye accident). |
| Ingestion    | Clean mouth with water and drink afterwards plenty of water. Call a physician.   |

# 5. Fire fighting measures

| Suitable Extinguishing<br>Media          | Water spray or fog, foam, dry chemical powder, CO2, dry sand       |
|--|--|
| Unsuitable<br>Extinguishing Media        | No restrictions  |
| Protective equipment<br>for firefighters | Wear self-contained breathing apparatus and fire protective suite. |

# 6. Accidental release measures

| Personal precautions  | Avoid contact with skin, eyes and clothing.                                      |  |
|---|--|--|
| Environmental<br>precautions  | Must not be released into sewers, drains or wells.                               |  |
| Methods for cleaning  | Transfer large quantities into a container, rinse the rest with plenty of water. |  |
| For personal protection see chapter 8; for disposal considerations see chapter 13 |  |  |

# 7. Handling and storage

Storage and Handling Keep dry. Precautions

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#### For industrial hygiene measures see chapter 8

Preventive PrecautionsTake precautionary measures against static discharges. Avoid formation of dust.(fire/explosion)Maximum Storage70 °CTemperature (safety)70 °C

# 8. Exposure controls / Personal protection

#### **Occupational Exposure Controls**

| Industrial Hygiene | After finishing work wash hands and face with water and soap |   |  |
|--------------------|--|---|--|
| Open Handling      | Respiration  | : Disposable fine dust protection mask (EN149) or reusable halfmask (EN140)   |  |
|                    | Eye  | : Safety glasses (EN166)  |  |
|                    | Hand   | : Disposable gloves or chemical-resistant gloves, normal length (EN374/EN388) |  |

These values are derived from experiments, literature and information from the glove manufacturer. They can also be derived from similar materials. In daily work please be aware that the using time depends on several factors and can be shorter than the oficially tested permeation time.

# 9. Physical and chemical properties

#### Appearance

| Appearance                          |   |
|-------------------------------------|---|
| Formulation                         | amorphous solid   |
| Physical state                      | solid   |
| Colour                              | yellow brown  |
| Odour                               | characteristic  |
| Safety relevant basic               | data  |
| Melting point/range                 | unknown   |
| Boiling Point                       | unknown   |
| Bulk Density                        | 750 kg/m3   |
| Solubility (Aqueous<br>Solvents)    | not available   |
| Solubility (Solvents)               | not available   |
| рН                                  | 3 - 5 (Concentration: 100 g/l, Temperature: 20 °C)  |
| рКа                                 | not available   |
| Specific Resistivity                | 9.4 - 9.8 * 10E8 Ohm m  |
| Safety Tests                        |   |
| Autoignition                        | Temperature: 400 °C   |
| Dynamic<br>Decomposition            | Exothermy: 170 °C<br>Method: Grewer test method, air stream, as is (temp.progr. 1,2°C/min, examined up to 350°C)<br>Exothermy: 170 °C |
|                                     | Method: Lütolf, open cup, as is (Temp.progr. 2.5°C/min, examined up to 350°C)   |
| Combustibility Test                 | Standard conditions: $2 = after$ ignition the fire dies out rapidly (Temperature: $20 \degree C$ )                                    |
| -                                   | Standard conditions: 2 = after ignition the fire dies out rapidly (Temperature: 100 °C)   |
| Dust Explosion                      | Positive Minimum Ignition Energy: 300 - 1000 mJ   |
| Isoperibolic<br>Decomposition (>8h) | Stable up to: 130 °C<br>Method: long duration test open cup (8h)  |
| Flammable Gases over                |   |
| Explosivity/Reactivity              | Deflagration: No suspect of deflagration based on thermal data  |
| . , , , ,                           | Drop-Weight Test: Negative  |

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# 10. Stability and reactivity

# Dangerous Combustioncarbon monoxideProductssulfur dioxidenitrogen oxides

Carbon dioxide

# 11. Toxicological information

| Acute Toxicity        | unknown  |
|-----------------------|--|
| Irritation, Corrosion | unknown  |
| Sensitisation         | unknown  |
| Additional advice     | Based on the present knowledge, the product needs not be classified as toxic for humans. |
| Mutagenicity          | unknown  |

# **12. Ecological information**

Ecotoxicity Summary Easily biodegradable.

#### **Environmental Toxicity**

| Fish acute toxicity                 | unknown |
|-------------------------------------|---------|
| Aquatic invertebrate acute toxicity | unknown |
| Algae Toxicity                      | unknown |
| Bacterial Respiration<br>Inhibition | unknown |

#### Persistence and degradability

Biological Elimination unknown

# 13. Disposal considerations

Disposal Requirements May be incinerated if local official regulations are observed.

# **14. Transport information**

| Regulation     | Class          | UN No. | PG | Label | LQ   |  |
|----------------|----------------|--------|----|-------|------|--|
| RID/ADR:       | not restricted | 0      |    |       | N.A. |  |
| IMDG-Code:     | not restricted | 0      |    |       |      |  |
| ICAO/IATA-DGR: | not restricted | 0      |    |       |      |  |

ICAO/IATA-DGR: no dangerous good Proper shipping name: -

# 15. Regulatory information

**EC Label** assessment: No labelling requirements according to EC Directives.

Chemical Safety Assessment not required.

# **16. Other information**

| Changes since the   | <ol><li>Hazards identification</li></ol> |
|---------------------|--|
| previous version in | 11. Toxicological information            |

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| chapter            | 14. Transport information |
|--------------------|---------------------------|
| Abbreviations used |                           |
| Recipient          | To whom it may concern    |

Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.