

1 Identification of substance:

- **Product name:** Mycobacterium butyricum, desiccated
- **Catalog number:** 264010
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Tel: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800)638-8663, or ChemTrec at (800)424-9300.

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
mycobacterium butyricum
- **Chemical characterization**

· **Dangerous components:**

mycobacterium butyricum	100.0%
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3 Hazards identification

· **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 21/22 Harmful in contact with skin and if swallowed.
- **NFPA ratings (scale 0-4)**



Health = 2
Fire = 0
Reactivity = 0

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
Primary injection may produce a typical response which may include and is not limited to fever, malaise, lymphadenopathy, granuloma developmeent, delayed hypersensitivity response, and immune response.
- **After eye contact**
Rinse opened eye for 15 minutes under running water. Then consult a doctor.

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- Refer to skin contact
· **After swallowing** Call a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** No special measures required.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** 2 - 8 C
 - **Information about storage in one common storage facility:** Store away from oxidizing agents.
 - **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

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 creation were used as basis.
- **Personal Protective Equipment**
 - **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
 - **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

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Product name: *Mycobacterium butyricum*, desiccated· **Eye protection:** Safety glasses

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9 Physical and chemical properties:· **General Information**

Form:	Solid. Powder
Color:	Light beige
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable· **Flammability (solid, gaseous)** Product is not flammable.· **Danger of explosion:** Product does not present an explosion hazard.· **Density:** Not determined· **Solubility in / Miscibility with****Water:** Partly soluble· **Solids content:** 100.0 %**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known· **Dangerous products of decomposition:** Carbon monoxide (CO) and carbon dioxide (CO₂)**11 Toxicological information**· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** No irritating effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

Harmful

The product shows the following dangers according to internally approved calculation methods for preparations:

USA

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Reviewed on 11/17/2003

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12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** *Generally not hazardous for water.*

13 Disposal considerations

- **Product:**
- **Recommendation**
*Smaller quantities can be disposed of with solid waste.
This product is not considered a RCRA hazardous waste.
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to state and federal regulations.*

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **Marine pollutant:** *No*

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**
Substance is not listed.
- **SARA Section 313 (specific toxic chemical listings)**
Substance is not listed.
- **TSCA (Toxic Substances Control Act)**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause cancer**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause developmental toxicity:**
Substance is not listed.

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **Product related hazard information:**

The product has been classified and marked in accordance with regulations on hazardous materials.

· **Hazard symbols:**

Xn Harmful

· **Risk phrases:**

21/22 Harmful in contact with skin and if swallowed.

· **Safety phrases:**

7 Keep container tightly closed.

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

36 Wear suitable protective clothing.

16 Other information:

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· **Department issuing MSDS:** Safety and Environment Department

· **Contact:** Technical Service Representative

USA