

### 1 Identification of substance:

- **Product name:** M. Tuberculosis H37 Ra
- **Catalog number:** 231141
- **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:

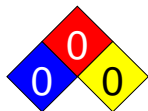
- **Chemical characterization:**
- **CAS No. Description:**  
Not applicable
- **Additional information:** This product contains heat killed M. Tuberculosis H37 Ra.
- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

Mycobacterium tuberculosis H37 Ra	100.00%
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### 3 Hazards identification

- **NFPA ratings (scale 0-4)**



Health = 0  
Fire = 0  
Reactivity = 0

### 4 First aid measures

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this MSDS.
- **The following symptoms may occur:**  
Primary injection may produce typical response which may include and is not limited to fever, malaise, lymphadenopathy, granuloma development, delayed hypersensitivity response, and immune response.  
Chronic exposure: delayed hypersensitivity response and immune response to Tuberculosis test serums.

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**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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:** Ensure good ventilation/exhaustion at the workplace.
  - **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:** Not required.
  - **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.
  - **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).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

USA

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

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

**· Change in condition**

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

**· Flash point:** Not applicable

**· Auto igniting:** Product is not self igniting.

**· 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.

**· Materials to be avoided:** Incompatible material: strong oxidizers.

**· Dangerous reactions** No dangerous reactions known

**· Dangerous products of decomposition:** Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

**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:

**12 Ecological information:****· Ecotoxicological effects:****· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

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**General notes:** Generally not hazardous for water.**13 Disposal considerations****Product:****Recommendation**

Must not be disposed of with solid waste.

After the product is used, disinfect with bleach (sodium hypochlorite), or an approved disinfectant, or incinerate, or autoclave at 121 C for at least 15 minutes before disposing.

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.**Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport information****DOT regulations:****Hazard class:** -**Land transport ADR/RID (cross-border)****ADR/RID class:** -**Maritime transport IMDG:****IMDG Class:** -**Marine pollutant:** No**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -**Transport/Additional information:**

If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation. However, if a Hazard Class Number is listed the product is regulated.

**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.

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· **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.

· **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 substance is not subject to classification according to the sources of literature known to us.

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
III	90.0

· **Water hazard class:** Generally not hazardous for water.

**16 Other information:**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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

· **Contact:** Technical Service Representative