1 Identification of substance:

- Product name: MacConkey Agar
- Catalog number: 212122
- Manufacturer/Supplier: BD Diagnostic Systems
  7 Loveton Circle
  Sparks, MD 21152
  Tel: (410) 771-0100 or (800) 638-8663
- 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
- Description: Mixture consisting of the following components.

- Dangerous components:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>bile salts No. 3</td>
<td>9.93%</td>
</tr>
</tbody>
</table>

3 Hazards identification

- Hazard description:

  Xi Irritant

- Information pertaining to particular dangers for man and environment
  R 36/37/38 Irritating to eyes, respiratory system and skin.

- Classification system
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- NFPA ratings (scale 0-4)

<table>
<thead>
<tr>
<th>Category</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Fire</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

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.
- After eye contact Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- After swallowing If symptoms persist consult doctor.

(Contd. on page 2)
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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/collection**: No special measures required.
- **Additional information**:
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

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 - 30 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**: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.
    - Immediately remove all soiled and contaminated clothing.
    - 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.
Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 08/02/2004
Reviewed on 11/17/2003

Product name: MacConkey Agar

- Protection of hands:
  - Chemical resistant gloves (i.e. nitrile, or equivalent).
- Eye protection: Safety glasses
- Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties:

- General Information
  - Form: Solid.
  - Color: Beige
  - Odor: Characteristic
  - Change in condition: Undetermined
  - 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.
  - Vapor pressure: Not applicable
  - Density: Not determined
  - Solubility in / Miscibility with Water: Soluble
  - pH-value: 7.1 +/- 0.2
  - Solvent content:
  - 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: Chlorine (Cl)

11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
Product name: MacConkey Agar

- **Subacute to chronic toxicity:** Target organs: respiratory tract, eyes, kidneys, and skin.
- **Additional toxicological information:**
  The product shows the following dangers according to internally approved calculation methods for preparations:
  Irritant

### 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), 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)**
  None of the ingredients is listed.
Product name: MacConkey Agar

- SARA Section 313 (specific toxic chemical listings)
  None of the ingredients is listed.

- TSCA (Toxic Substances Control Act)
  9002-18-0 agar
  63-42-3 lactose
  497-19-8 sodium carbonate
  548-62-9 crystal violet

- California Proposition 65 - Chemicals known to cause cancer
  None of the ingredients is listed.

- California Proposition 65 - Chemicals known to cause reproductive toxicity
  None of the ingredients is listed.

- Carcinogenicity categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.

- Product related hazard information:
  The product has been classified and marked in accordance with regulations on hazardous materials.

  - Hazard symbols:
    Xi Irritant
  - Hazard-determining components of labeling:
    Bile Salts
  - Risk phrases:
    36/37/38 Irritating to eyes, respiratory system and skin.
  - Safety phrases:
    7 Keep container tightly closed.
    22 Do not breathe dust.
    24/25 Avoid contact with skin and eyes.
    36/37 Wear suitable protective clothing and gloves.

16 Other information:
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- Department issuing MSDS: Safety and Environment Department
- Contact: Technical Service Representative