**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Identification of the substance or mixture**

<table>
<thead>
<tr>
<th>Product code</th>
<th>10567014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>DMEM</td>
</tr>
</tbody>
</table>

**Company/undertaking identification**

<table>
<thead>
<tr>
<th>Life Technologies Corporation</th>
<th>Life Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>5781 Van Allen Way</td>
<td>5250 Mainway Drive</td>
</tr>
<tr>
<td>PO Box 6482</td>
<td>Burlington, ONT</td>
</tr>
<tr>
<td>Carlsbad, CA 92008</td>
<td>CANADA L7L 6A4</td>
</tr>
<tr>
<td>+1 760 603 7200</td>
<td>800/263-6236</td>
</tr>
</tbody>
</table>

**24 hour Emergency Response:**

866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

**Country specific Emergency Number (if available):**

CHEMTREC Brazil (Rio De Janeiro)  +55)-2139581449 (português)

For human ex-vivo tissue and cell culture processing applications. CAUTION: When used as a medical device, Federal law restricts this device to sale by or on the order of a physician.

**SECTION 2: Hazards identification**

**GHS - Classification**

**Signal Word**

None

**Health hazards**

Not classified

**Physical hazards**

Not classified

**Hazard Statements**

Not Applicable

**Precautionary Statements**

Not Applicable

**Principle Routes of Exposure**

Potential Health Effects
eyes
May cause eye irritation with susceptible persons.

Skin
May cause skin irritation in susceptible persons.

inhalation
May be harmful by inhalation.

Ingestion
May be harmful if swallowed.

Specific effects

<table>
<thead>
<tr>
<th>Carcinogenic effects</th>
<th>None.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenic effects</td>
<td>None.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>None.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>None.</td>
</tr>
</tbody>
</table>

Target Organ Effects
No known effects under normal use conditions.

HMIS

<table>
<thead>
<tr>
<th>Health</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

SECTION 3: Composition/information on ingredients
The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: First aid measures

Skin contact
Rinse cautiously with water for several minutes. Immediate medical attention is not required.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Ingestion
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

inhalation
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed
Not Applicable

Notes to Physician
Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media

Special protective equipment for firefighters
Standard procedure for chemical fires.

Specific hazards arising from the chemical
Not known

SECTION 6: Accidental release measures

Personal precautions
Always wear recommended Personal Protective Equipment. Use personal protection equipment.

Methods for cleaning up
Soak up with inert absorbent material.
No special environmental precautions required.

See Section 12 for more information.

### SECTION 7: Handling and storage

**Handling**
Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage**
Keep in a dry, cool and well-ventilated place.

### SECTION 8: Exposure controls/personal protection

**Exposure Limits**
We are not aware of any national exposure limit.

**Engineering measures**
Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**
Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

- **Respiratory protection**
  In case of insufficient ventilation, wear suitable respiratory equipment.

- **Hand protection**
  Impervious gloves.

- **Eye protection**
  Wear safety glasses with side shields (or goggles).

- **Skin and Body Protection**
  Lightweight protective clothing.

- **Hygiene measures**
  Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**
No special environmental precautions required.

### SECTION 9: Physical and chemical properties

**General information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data available</td>
</tr>
<tr>
<td>n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Viscosity: No data available
pH value: 6-8

SECTION 10: Stability and reactivity

Stability: Stable under normal conditions.
Materials to avoid: No dangerous reaction known under conditions of normal use.
Possibility of hazardous reactions: Hazardous reaction has not been reported
Hazardous decomposition products: None under normal use conditions.
Polymerization: Hazardous polymerization does not occur.
Conditions to avoid: None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

No toxicity information is available.

Principle Routes of Exposure

Potential Health Effects

eyes: May cause eye irritation with susceptible persons.
Skin: May cause skin irritation in susceptible persons.
Inhalation: May be harmful by inhalation.
Ingestion: May be harmful if swallowed.

Carcinogenic effects: None.
Mutagenic effects: None.
Reproductive toxicity: None.
Sensitization: None.

SECTION 12: Ecological information

Ecotoxicity: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Mobility: No information available.
Biodegradation: Inherently biodegradable.
Bioaccumulation: Material does not bioaccumulate.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information
IATA
Proper Shipping Name  No dangerous good in sense of these transport regulations
Hazard Class  None
Subsidiary class  None
Packing group  None
UN-No  None
Environmental hazards  None

SECTION 15: Regulatory information

US Federal Regulations

SARA 313
This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contains HAPs.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class
Non-controlled
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision  SDS sections updated.

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“The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

www.thermofisher.com