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>11885084</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)</td>
</tr>
</tbody>
</table>

Company/undertaking identification

Life Technologies
5791 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response:
866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

For in vitro diagnostic use. CAUTION: Not for human or animal therapeutic use.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
Not Hazardous

Health hazards
Not Hazardous

Physical hazards
Not Hazardous

Principle Routes of Exposure

<table>
<thead>
<tr>
<th>Eyes</th>
<th>May cause eye irritation with susceptible persons.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>May cause skin irritation in susceptible persons.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be harmful by inhalation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

www.lifetechnologies.com
**Specific effects**
- Carcinogenic effects: None
- Mutagenic effects: None
- Reproductive toxicity: None
- Sensitization: None

**Target Organ Effects**
None under normal use conditions

**SECTION 6: Accidental release measures**

**Personal precautions**
Use personal protection equipment.

**Methods for cleaning up**
Soak up with inert absorbent material.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

**SECTION 3: Composition/information on ingredients**

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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

**SECTION 4: First aid measures**

**Skin contact**
Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

**Eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Ingestion**
Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**Inhalation**
Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Notes to Physician**
Treat symptomatically.

**SECTION 5: Firefighting measures**

**Suitable extinguishing media**

**Special protective equipment for firefighters**
Wear self-contained breathing apparatus and protective suit.

**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
Prevent product from entering drains.

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 information available</td>
</tr>
<tr>
<td>Odor</td>
<td>No information 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>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

Stability
Stable under normal conditions.

Materials to avoid
No dangerous reaction known under conditions of normal use.

Hazardous decomposition products
None under normal use conditions.

Polymerization
Hazardous polymerization does not occur.

SECTION 11: Toxicological information

Acute Toxicity
Principle Routes of Exposure

Potential Health Effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>eyes</td>
<td>May cause eye irritation with susceptible persons</td>
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<tr>
<td>Skin</td>
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<td>May be harmful if swallowed</td>
</tr>
</tbody>
</table>

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

Target Organ Effects: None under normal use conditions

SECTION 12: Ecological information

Ecotoxicity: No information available
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

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No dangerous good in sense of these transport regulations</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>None</td>
</tr>
<tr>
<td>Subsidiary class</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>UN-No</td>
<td>None</td>
</tr>
</tbody>
</table>

Product name: Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)

www.lifetechnologies.com
Reason for revision
Not Applicable. SDS sections updated.

For in vitro diagnostic use. CAUTION: Not for human or animal therapeutic use.

“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"