1 Product and Company Identification

1.1 Product Name: DMEM/F-12 with 15 mM HEPES
1.2 Catalog Number: 36254
1.3 Synonyms: Not Available
1.4 Product Use: Cell Culture
1.5 Manufacturer/Supplier: STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
1.6 In Case of Emergency Call: 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture.

2.2 Label elements
Not a hazardous substance or mixture.

2.3 Other hazards
None

3 Composition / Information on Ingredients

3.1 Mixtures
No components need to be disclosed according to the applicable regulations.

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

4.1.2 In case of skin contact
Wash off with soap and plenty of water.

4.1.3 In case of eye contact
Flush eyes with water as a precaution.

4.1.4 If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available
5 Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media
Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Fire Fighting Instructions
Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

7 Handling and Storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

8 Exposure Controls/Personal Protection

8.1 Exposure limits
Contains no substances with occupational exposure limit values.

8.2 Engineering controls
Use mechanical exhaust or laboratory fumehood to avoid exposure.

8.3 Personal protective equipment

8.3.1 Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.3.2 Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**8.3.3 Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**8.3.4 General hygiene considerations**
General industrial hygiene practice.

### 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

- **Appearance**: Clear, red fluid
- **Odour**: No data available
- **Odour threshold**: No data available
- **Melting point/freezing point**: No data available
- **Boiling point/boiling range**: No data available
- **Decomposition temperature**: No data available
- **Relative density**: No data available
- **Solubility in water**: No data available
- **Solubility in other liquids**: No data available
- **pH**: 7.2 - 7.4
- **Partition coefficient: n-octanol/water**: No data available
- **Viscosity**: No data available
- **Vapour pressure**: No data available
- **Vapour density**: No data available
- **Evaporation rate**: No data available
- **Flash point**: No data available
- **Flammability (solid, gas)**: No data available
- **Upper/lower flammability or explosive limits**: No data available
- **Auto-ignition temperature**: No data available

#### 9.2 Other information

No data available

### 10 Stability and Reactivity

#### 10.1 Reactivity
No data available

#### 10.2 Chemical stability
No data available

#### 10.3 Possibility of hazardous reactions
No data available

#### 10.4 Conditions to avoid
No data available

#### 10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products

No data available

11 Toxicological Information

11.1 Acute toxicity
No data available

11.2 Skin corrosion/irritation
No data available

11.3 Serious eye damage/eye irritation
No data available

11.4 Aspiration hazard
No data available

11.5 Specific target organ toxicity - single exposure
No data available

11.6 Specific target organ toxicity - repeated exposure
No data available

11.7 Respiratory and/or skin sensitization
No data available

11.8 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.9 Reproductive toxicity
No data available

11.10 Germ cell mutagenicity
No data available

11.11 Signs and symptoms of exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.12 RTECS # No data available

12 Ecological Information

12.1 Toxicity No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Other adverse effects No data available
13 Disposal Considerations

13.1 Waste disposal method
Dispose in accordance with local, provincial/state, and federal regulations.

14 Transport Information

14.1 UN number
No data available

14.2 UN proper shipping name
| DOT       | Not dangerous goods |
| ADR/RID   | Not dangerous goods |
| IMDG      | Not dangerous goods |
| IATA      | Not dangerous goods |

14.3 Transport hazard class(es)
No data available

14.4 Packing group
No data available

14.5 Environmental hazards
No data available

14.6 Special precautions
No data available

15 Regulatory Information

15.1 WHMIS Classification
Not WHMIS controlled

15.2 Regulatory information statement
This SDS was prepared according to the Canadian Controlled Products Regulation and contains all the information required by those regulations.
This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

16 Other Information

16.1 Prepared by:
Quality Control, STEMCELL Technologies Inc.

16.2 Revision:
N/A

16.3 Notice:
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