

Material Safety Data Sheet

CryoStor™ CS-10

Cat. No: 07930

1 Product and Company Identification:

- 1.1 Product Name:** CryoStor™ CS-10
- 1.2 Catalog Number:** 07930
- 1.3 Synonyms:** Not Available
- 1.4 Product Use:** Ultra low temperature (<-135 °C) storage of biological material (cells and tissues)
- 1.5 Manufacturer/Supplier:** StemCell Technologies Inc.
Suite 400, 570 West 7th Avenue
Vancouver, BC V5Z 1B3
Canada
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** September 9, 2009
- 1.8 Prepared By:** Quality Control

2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Dimethyl Sulfoxide (DMSO)	67-68-5	10%

3 Hazards Identification:

- 3.1 Emergency Overview:** This product is a potential irritant to eyes, respiratory system, and skin. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined.
- 3.2 Routes of Exposure:** Absorbed through skin, eye contact, inhalation, and ingestion.
- 3.3 Potential Health Effects:**
- 3.3.1 Eye:** May cause eye irritation.
- 3.3.2 Skin:** May cause skin irritation.
- 3.3.3 Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
- 3.3.4 Ingestion:** May cause nausea if swallowed.
- 3.4 Chronic Effects/Carcinogenicity:** Not Available
- 3.5 OSHA Regulatory Status:** Not Available

4 First Aid Measures:

- 4.1 Eyes:** In case of contact with eyes, flush thoroughly with water for > 10 minutes. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with soap and copious amounts of water. Wash contaminated clothing before reuse. Should irritation occur, contact a physician.
- 4.3 Ingestion:** If swallowed, give two glasses of water and induce vomiting. Call a physician.
- 4.4 Inhalation:** If inhaled, remove person to fresh air. If breathing becomes difficult, call a physician.

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4.5 **Puncture Wounds:** Wash thoroughly with soap and water. Allow to bleed freely. Call a physician.

4.6 **Note to Physician:** Not Available

5 Fire Fighting Measures:

5.1 **Flash Point/Method:** Not Available

5.2 **Explosive Limits:**

5.2.1 **Upper:** Not Available

5.2.2 **Lower:** Not Available

5.3 **Autoignition Temperature:** Not Available

5.4 **Hazardous Combustion Products:** Nature of combustion products not known.

5.5 **Conditions of Flammability:** Non-flammable

5.6 **Extinguishing Media:** Use extinguishing media appropriate to surrounding fire conditions.

5.7 **Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.8 **Explosion Data:**

5.8.1 **Sensitivity to Mechanical Impact:** Not Available

5.8.2 **Sensitivity to Static Discharge:** Not Available

6 Accidental Release Measures:

6.1 **Leak and Spill Procedure:** Wear chemical-resistant gloves. Absorb spill and place in closed container for disposal. Wash area thoroughly after clean-up is complete.

7 Handling and Storage:

7.1 **Handling:** Should be handled by trained personnel observing good laboratory practices. Avoid breathing vapor. Avoid skin contact or swallowing. May cause allergic reaction in sensitized individuals.

7.2 **Storage:** Store at 2-8 °C.

8 Exposure Controls/Personal Protection:

8.1 **Engineering Controls:** Use with adequate ventilation.

8.2 **Personal Protective Equipment:**

8.2.1 **Respiratory Protection:** This is a laboratory-use product for which no industrial protective equipment has been designated.

8.2.2 **Eye Protection:** Safety Glasses.

8.2.3 **Skin Protection:** Lab Coat, Latex Gloves.

8.3 **General Hygiene Considerations:** Wash hands after use.

8.4 **Exposure Limits:**

8.4.1 **ACGIH TLV-TWA:** Not Available

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8.4.2 OSHA PEL-TWA: Not Available

9 Physical/Chemical Properties:

9.1 Appearance:	Clear liquid.
9.2 Odor:	Slight odor
9.3 Physical State:	Liquid
9.4 pH:	7.5 - 7.7
9.5 Boiling Point:	Not Available
9.6 Melting Point:	Approximately 0 °C
9.7 Freezing Point:	Approximately -4 °C
9.8 Vapor Pressure:	Not Available
9.9 Vapor Density:	Not Available
9.10 Specific Gravity:	Not Available
9.11 Evaporation Rate:	Not Available
9.12 Solubility in Water:	Soluble
9.13 Odor Threshold:	Not Applicable
9.14 Coefficient of Water/Oil Distribution:	Not Available

10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Storage and use of product at elevated temperatures >22 °C
10.3 Incompatibility (Material to Avoid):	Acid chlorides, phosphorous halides, strong acids, strong oxidizing agents, strong reducing agents
10.4 Hazardous Decomposition/By-Products:	Carbon monoxide, carbon dioxide, sulfur oxides
10.5 Hazardous Polymerization:	Not Available

11 Toxicological Information

11.1 Effects of Short-Term Exposure:	Not Available
11.2 Effects of Long-Term Exposure:	Not Available
11.3 Irritancy of Product:	Not Available
11.4 Sensitization to Product:	Not Available
11.5 Carcinogenicity:	Not Available
11.6 Reproductive Toxicity:	Not Available
11.7 Teratogenicity and Embryotoxicity:	Not Available
11.8 Mutagenicity:	Not Available
11.9 Name of Toxicologically Synergistic Products:	Not Available
11.10 LD50 (specify species and route):	Not Available

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11.11 LC50 (specify species): Not Available

12 Ecological Information

12.1 Not Available

13 Disposal Considerations

13.1 Waste Disposal Method: Disposal should be in accordance with existing practices at your institution. Observe all Federal, Provincial/State and local laws.

14 Transport Information

14.1 Transport Canada

14.1.1 PIN No.: Not Available.

14.2 U.S. Department of Transportation:

14.2.1 Proper Shipping Name: Not Available.

14.2.2 Hazard Class: This substance is not known to be hazardous for transport.

14.2.3 ID. Number: Not Available.

14.2.4 Packing Group: Not Available.

14.2.5 Label Statement: Not Available.

15 Regulatory Information

15.1 WHMIS Classification: Not Available

15.2 Note: This MSDS was prepared according to the Canadian Controlled Products Regulation and contains all the information required by those regulations.

16 Other Information

16.1 Preparation Information: Refer to PIS No. 07930.

16.2 This MSDS has been revised in the following section(s): Not Applicable

16.3 Original Issue Date: September 9, 2009

16.4 Notice: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StemCell Technologies Inc., shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 1.7 of this document and may be subject to ammendment by StemCell Technologies Inc.

16.5 Disclaimer: **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT USED FOR DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.**