

# Material Safety Data Sheet

Heparin Solution, 0.2%

Cat. No: 07980

## 1 Product and Company Identification

- 1.1 Product Name:** Heparin Solution, 0.2%
- 1.2 Catalog Number:** 07980
- 1.3 Synonyms:** Not Available
- 1.4 Product Use:** Cell Culture
- 1.5 Manufacturer/Supplier:** StemCell Technologies Inc.  
Suite 400, 570 West 7<sup>th</sup> Avenue  
Vancouver, BC V5Z 1B3  
Canada
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** November 15, 2010
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Heparin sodium	9041-08-1	0.2

## 3 Hazards Identification

- 3.1 Emergency Overview:** This product is a potential irritant to eyes, respiratory system, and skin. Caution: Avoid contact and inhalation. Target organ: Blood.
- 3.2 Routes of Exposure:** Absorbed through skin, eye contact and inhalation.
- 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 be harmful 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 at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with soap and copious amounts of water. Should irritation occur, contact a physician.
- 4.3 Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- 4.4 Inhalation:** If inhaled, remove person to fresh air. If breathing becomes difficult, call a physician.
- 4.5 Puncture Wounds:** Wash thoroughly with soap and water. Allow to bleed freely. Call a physician.
- 4.6 Note to Physician:** Heparin and its salts act as anticoagulants subcutaneously or intravenously.

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## 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:** Emits toxic fumes under fire conditions.
- 5.5 Conditions of Flammability:** Not Available
- 5.6 Extinguishing Media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.
- 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
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## 6 Accidental Release Measures

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

- 7.1 Handling:** Should be handled by trained personnel observing good laboratory practices. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. Wash thoroughly after handling.
- 7.2 Storage:** Store at 2-8°C.
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## 8 Exposure Controls/Personal Protection

- 8.1 Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.
- 8.2 Personal Protective Equipment:**
- 8.2.1 Respiratory Protection:** Government approved respirator.
  - 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

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## 9 Physical/Chemical Properties:

9.1 Appearance:	Clear pale yellow liquid
9.2 Odor:	None
9.3 Physical State:	Liquid
9.4 pH:	Not Available
9.5 Boiling Point:	Not Available
9.6 Melting Point:	Not Available
9.7 Freezing Point:	Not Available
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:	Not Available
9.13 Odor Threshold:	Not Applicable
9.14 Coefficient of Water/Oil Distribution:	Not Available

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## 10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Not Available
10.3 Incompatibility (Material to Avoid):	Not Available
10.4 Hazardous Decomposition/By-Products:	Nature of decomposition products not known.
10.5 Hazardous Polymerization:	Will not occur.

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## 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

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11.10 LD50 (specify species and route): Not Available

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: D2B

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. 07980.

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

16.3 Original Issue Date: December 13, 2007

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.**