

# Material Safety Data Sheet

DNase I Solution

Cat. No: 07900

## 1 Product and Company Identification:

- 1.1 Product Name:** DNase I Solution
- 1.2 Catalogue Number:** 07900
- 1.3 Synonyms:** DNase I; Deoxyribonucleate 5'-oligonucleotidohydrolase; Deoxyribonuclease A
- 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 Prepared:** June 4, 2010
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Deoxyribonuclease I	9003-98-9	1 mg/mL

## 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. Ingestion
- 3.3 Potential Health Effects:**
- 3.3.1 Eye:** May cause irritation of the eye.
- 3.3.2 Skin:** May cause skin irritation.
- 3.3.3 Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- 3.3.4 Ingestion:** May cause nausea or vomiting.
- 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. 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, call 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.

# Material Safety Data Sheet

DNase I Solution

Cat. No: 07900

---

4.6 **Note to Physician:** Not applicable

---

## 5 Fire Fighting Measures:

5.1 **Flash Point/Method:** >200 °C

### 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:** Includes carbon dioxide, carbon monoxide, dense smoke.

5.5 **Conditions of Flammability:** Not Available.

5.6 **Extinguishing Media:** Use fire-extinguishing media appropriate for site conditions.

5.7 **Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective garments.

### 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 appropriate containers 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 contact with skin or eyes. May cause allergic reaction in sensitized individuals.

7.2 **Storage:** Store at -20°C.

---

## 8 Exposure Controls/Personal Protection:

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

### 8.2 Personal Protective Equipment:

8.2.1 **Respiratory Protection:** None required if ventilation is adequate.

8.2.2 **Eye Protection:** Safety glasses.

8.2.3 **Skin Protection:** Lab coat, rubber or chemical resistant gloves.

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

### 8.4 Exposure Limits:

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

---

# Material Safety Data Sheet

DNase I Solution

Cat. No: 07900

---

8.4.2 OSHA PEL-TWA: Not Available.

---

## 9 Physical/Chemical Properties:

9.1 Appearance:	Clear solution
9.2 Odor:	No odor.
9.3 Physical State:	Liquid
9.4 pH:	Approximately 7.2
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:	Soluble in water.
9.13 Odor Threshold:	Not Available.
9.14 Coefficient of Water/Oil Distribution:	Not Available.

---

## 10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Excess heat, flame, and pressure.
10.3 Incompatibility (Material to Avoid):	Strong oxidizing agents
10.4 Hazardous Decomposition/By-Products:	Not Available.
10.5 Hazardous Polymerization:	Not Applicable.

---

## 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.

# Material Safety Data Sheet

DNase I Solution

Cat. No: 07900

---

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 of the information required by those regulations.

---

## 16 Other Information

16.1 Preparation Information: Refer to PIS No.07900.

16.2 This MSDS has been revised in the following section(s): 1.1, 1.8, 2.1, 3.3.3, 4.1-4.2, 4.4-4.6, 7.1, 9.4, 10.3

16.3 Original Issue Date: 23 January, 2004

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 Issue Date shown in Section 1.6 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.**