1 Product and Company Identification

1.1 Product Name: CellAdhere™ Type I Collagen, Bovine, Solution

1.2 Catalog Number: 07001

1.3 Synonyms: Not Available1.4 Product Use: Cell Culture

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 Prepared: September 17, 2012

1.8 Prepared By: Quality Control

2 Composition / Information on Ingredients

2.1	Component	CAS No.	%W/W
	Bovine collagen	[9007-34-5]	0.6-0.7
	Hydrochloric Acid	7647-01-0	0.03 - 0.04

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

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properties have yet to be determined.

3.2 Routes of Exposure: Absorbed through skin, eye contact 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 be harmful if swallowed.

3.4 Chronic Effects/Carcinogenicity: Not Available3.5 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, contact a physician.

4.3 Ingestion: If swallowed, immediately induce vomiting. 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.

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4.6 Note to Physician: Not Available

Fire Fighting Measures

5.1 Flash Point/Method: Not Applicable

5.2 Explosive Limits:

5.2.1 Upper: Not Applicable 5.2.2 Lower: Not Applicable **5.3** Autoignition Temperature: Not Applicable 5.4 Hazardous Combustion Products: Hydrogen Chloride 5.5 Conditions of Flammability: Not Applicable

5.6 Extinguishing Media: Use whatever is appropriate to the surrounding fire.

5.7 Fire Fighting Procedures: Not Applicable - No toxic waste in run-off.

5.8 Explosion Data:

5.8.1 Sensitivity to Mechanical Impact: Not Applicable 5.8.2 Sensitivity to Static Discharge: Not Applicable

Accidental Release Measures

6.1 Leak and Spill Procedure: Wear chemical-resistant gloves. Ventilate area. Neutralize spill with

soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover. Remove from area. Flush spill area with water.

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Handling and Storage

7.1 Handling: Should be handled by trained personnel observing good laboratory practices. Avoid

breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or

repeated exposure. May cause allergic reaction in sensitized individuals. Keep container

tightly closed.

Store at 2-8°C. 7.2 Storage:

Exposure Controls/Personal Protection 8

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 to opaque

9.2 Odor: Typical enzyme odor

9.3 Physical State: Liquid

9.4 pH: Approximately 2.0

9.5 Boiling Point: Decomposes
9.6 Melting Point: Not Applicable
9.7 Freezing Point: Not Available
9.8 Vapor Pressure: Not Available
9.9 Vapor Density: Not Available

9.10 Specific Gravity: Not Available9.11 Evaporation Rate: Not Available

9.12 Solubility in Water: Immiscible in water

9.13 Odor Threshold: Not Available9.14 Coefficient of Water/Oil Distribution: Not Available

10 Stability/Reactivity:

10.1 Chemical Stability: Stable

10.2 Conditions to Avoid: Not Applicable10.3 Incompatibility (Material to Avoid): Not Applicable

10.4 Hazardous Decomposition/By-Products: As with any organic material, this product may produce

toxic carbon monoxide and dioxide fumes if heated to decomposition and airborne dust may present an

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explosion hazard.

10.5 Hazardous Polymerization: Will not occur

11 Toxicological Information

Not Available 11.1 Effects of Short-Term Exposure: Not Available 11.2 Effects of Long-Term Exposure: 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 Not Available 11.8 Mutagenicity:

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11.9 Name of Toxicologically Synergistic Products: Not Available
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.

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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: E

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. 07001

16.2 This MSDS has been revised in the following section(s): 1.

16.3 Original Issue Date: April 26, 2012

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.

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