

# Material Safety Data Sheet

EasySep™ RBC Lysis Buffer 10X Concentrate

Cat. No: 20110\_20120

## 1 Product and Company Identification

- 1.1 Product Name:** EasySep™ RBC Lysis Buffer 10X Concentrate
- 1.2 Catalog Number:** 20110, 20120
- 1.3 Synonyms:** Not Available
- 1.4 Product Use:** Cell Separation
- 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:** February 7, 2014
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Ammonium chloride	12125-02-9	>1.0%

## 3 Hazards Identification

- 3.1 Emergency Overview:** This product is a moderate eye irritant, and may cause respiratory tract and skin irritation. This product may be harmful if inhaled or 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:** Causes eye irritation.
- 3.3.2 Skin:** May cause skin irritation.
- 3.3.3 Inhalation:** May be harmful if inhaled.
- 3.3.4 Ingestion:** May be harmful if swallowed.
- 3.4 Chronic Effects/Carcinogenicity:** Not Available
- 3.5 OSHA Regulatory Status:** Irritant

## 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 removing contact lenses and separating eyelids with fingers. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with copious amounts of soap and 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, have a trained person administer oxygen. 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

## 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: Includes nitrogen oxides (NOx), Hydrogen chloride gas.
- 5.5 Conditions of Flammability: Not Available
- 5.6 Extinguishing Media: Use media appropriate to the surrounding fire.
- 5.7 Fire Fighting Procedures: Not Available
- 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: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Absorb spill using absorbent material from commercial chemical spill kit. Contain absorbent waste in appropriate disposal container. Do not let product enter drains.

## 7 Handling and Storage

- 7.1 Handling: Should be handled by trained personnel observing good laboratory practices. Avoid breathing vapor. Avoid contact with skin and eyes.
- 7.2 Storage: Store at room temperature (15 - 25°C). Keep tightly closed.

## 8 Exposure Controls / Personal Protection

- 8.1 Engineering Controls: Use with adequate ventilation. Safety shower, eye bath.
- 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 and other exposed areas after use.
- 8.4 Exposure Limits:
- 8.4.1 ACGIH TLV-TWA: Ammonium chloride: 10 mg/m<sup>3</sup>
- 8.4.2 OSHA PEL-TWA: Ammonium chloride: 10 mg/m<sup>3</sup>

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## 9 Physical / Chemical Properties

9.1 Appearance:	Colourless fluid
9.2 Odor:	None
9.3 Physical State:	Liquid
9.4 pH:	Approximately 7.2 - 7.4
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 Available
9.14 Coefficient of Water/Oil Distribution:	Not Available

## 10 Stability / Reactivity

10.1 Chemical Stability:	Not Available
10.2 Conditions to Avoid:	Not Available
10.3 Incompatibility (Material to Avoid):	Strong acids, strong bases, oxidizing agents.
10.4 Hazardous Decomposition/By-Products:	Includes nitrogen oxides (NOx), Hydrogen chloride gas.
10.5 Hazardous Polymerization:	Will not occur.

## 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
11.11 LC50 (specify species):	Not Available

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## 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. 20110, 20120

**16.2 This MSDS has been revised in the following section(s):** 3.1, 3.3.1, 3.5, 4.3, 4.6, 5.5, 5.7, 6.1, 7.1, 8.4.1, 8.4.2, 9.10, 9.12, 10.1, 10.2, 10.4, 11.3, 11.11, 16.5

**16.3 Original Issue Date:** September 8, 2006

**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 amendment by STEMCELL Technologies Inc.

**16.5 Disclaimer:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.