

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 7th Avenue
Vancouver, BC V5Z 1B3
Canada
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** January 25, 2011
- 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 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.
 - 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 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:** Do not induce vomiting. If swallowed, wash out mouth with water provided person is conscious. Drink two glasses of milk or water to dilute. 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.

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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: Treat symptomatically.

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 NH₃, HCl, NO_x, CO₂, CO and dense smoke.

5.5 Conditions of Flammability: Not Available

5.6 Extinguishing Media: Use media appropriate to the surrounding fire.

5.7 Fire Fighting Procedures: Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Do not enter fire area without proper protection and equipment based on the severity of the blaze. This may include a self-contained breathing apparatus and full protective equipment.

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 skin and eye contact. Ventilate area near spill. Absorb spill using absorbent material from commercial chemical spill kit. Contain absorbent waste in appropriate disposal container. Flush area thoroughly with water to approved outside drainage.

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.

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: No respiratory protection needed under normal industrial operating conditions.

8.2.2 Eye Protection: Safety glasses.

8.2.3 Skin Protection: Lab coat, latex gloves.

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8.3 General Hygiene Considerations: Wash hands and other exposed areas after use.

8.4 Exposure Limits:

8.4.1 ACGIH TLV-TWA: 10 mg/m³

8.4.2 OSHA PEL-TWA: Not Available

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: Approximately 1
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: Extreme Heat
10.3 Incompatibility (Material to Avoid): Strong acids, strong bases, oxidizing agents.
10.4 Hazardous Decomposition/By-Products: Ammonia, 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: Standard Draize Test: eye, rabbit 500 mg/24 h - mild
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):	1650 mg/kg (oral, rat)

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): 2.1, 3.3.3, 5.4, 8.4.1, 9.4, 9.5, 9.7, 10.3, 11.3, 11.11, 15.1

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 ammendment by StemCell Technologies Inc.

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