

Material Safety Data Sheet

Biotin-conjugated Monoclonal Antibody

1 Product and Company Identification

1.1 Product Name/Catalog Number:

Product Name	Catalog Number
Anti-Human CD14 Antibody, Clone M5E2, Biotin	60004BT
Anti-Human CD19 Antibody, Clone H1B19, Biotin	60005BT, 60005BT.1
Anti-Human CD2 Antibody, Clone RPA-2.10, Biotin	60007BT, 60007BT.1
Anti-Human CD3 Antibody, Clone UCHT1, Biotin	60011BT, 60011BT.1
Anti-Human CD34 Antibody, Clone 581, Biotin	60013BT, 60013BT.1
Anti-Human CD4 Antibody, Clone OKT4, Biotin	60016BT, 60016BT.1
Anti-Human CD45 Antibody, Clone HI30, Biotin	60018BT, 60018BT.1
Anti-Human CD56 (NCAM) Antibody, Clone HCD56, Biotin	60021BT, 60021BT.1
Anti-Human CD8a Antibody, Clone RPA-T8, Biotin	60022BT, 60022BT.1
Anti-Mouse CD44 Antibody, Clone IM7, Biotin	60068BT, 60068BT.1
Anti-Human CD5 Antibody, Clone UCHT2, Biotin	60082BT
Anti-Human CD117 (c-Kit) Antibody, Clone 104D2, Biotin	60087BT

1.2 Synonyms: Not Available

1.3 Product Use: Flow cytometry

1.4 Manufacturer/Supplier: STEMCELL Technologies Inc.
Suite 400, 570 West 7th Avenue
Vancouver, BC V5Z 1B3
Canada

1.5 In Case of Emergency Call: 604-877-0713

1.6 Date Effective: October 17, 2013

1.7 Prepared By: Quality Control

2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
No components present at hazardous levels	Not Available	Not Available

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. 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

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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, 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:** Not Available
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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:** Nature of combustion products not known.
- 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 breathing vapor. Avoid contact with eyes, skin and clothing.
- 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.

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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

8.4.2 OSHA PEL-TWA: Not Available

9 Physical/Chemical Properties

9.1 Appearance: Clear fluid

9.2 Odor: None

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: Not Available

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: 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: 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

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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

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 the information required by those regulations.

16 Other Information

16.1 Preparation Information: Refer to product specific Product Information Sheet (PIS)

16.2 This MSDS has been revised in the following section(s): 1.1

16.3 Original Issue Date: December 10, 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

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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 INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.