

Material Safety Data Sheet

Alexa Fluor® 488-conjugated Monoclonal Antibody

1 Product and Company Identification

1.1 Product Name/Catalog Number:

Product Name	Catalog Number
Anti-Mouse CD11b Antibody, Clone M1/70, Alexa Fluor® 488	60001AD, 60001AD.1
Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488	60002AD, 60002AD.1
Anti-Human CD14 Antibody, Clone M5E2, Alexa Fluor® 488	60004AD, 60004AD.1
Anti-Human CD19 Antibody, Clone HIB19, Alexa Fluor® 488	60005AD
Anti-Mouse CD19 Antibody, Clone 6D5, Alexa Fluor® 488	60006AD, 60006AD.1
Anti-Human CD20 Antibody, Clone 2H7, Alexa Fluor® 488	60008AD
Anti-Human CD3 Antibody, Clone UCHT1, Alexa Fluor® 488	60011AD
Anti-Human CD34 Antibody, Clone 581, Alexa Fluor® 488	60013AD, 60013AD.1
Anti-Human CD38 Antibody, Clone HIT2, Alexa Fluor® 488	60014AD, 60014AD.1
Anti-Mouse CD3e Antibody, Clone 145-2C11, Alexa Fluor® 488	60015AD
Anti-Human CD4 Antibody, Clone OKT4, Alexa Fluor® 488	60016AD, 60016AD.1
Anti-Mouse CD4 Antibody, Clone RM4-5, Alexa Fluor® 488	60017AD, 60017AD.1
Anti-Human CD45 Antibody, Clone HI30, Alexa Fluor® 488	60018AD, 60018AD.1
Anti-Mouse CD45R Antibody, Clone RA3-6B2, Alexa Fluor® 488	60019AD
Anti-Mouse CD49b Antibody, Clone DX5, Alexa Fluor® 488	60020AD
Anti-Human CD56 Antibody, Clone HCD56, Alexa Fluor® 488	60021AD, 60021AD.1
Anti-Mouse CD8a Antibody, Clone 53-6.7, Alexa Fluor® 488	60023AD, 60023AD.1
Anti-Rat CD90 Antibody, Clone OX-7, Alexa Fluor® 488	60024AD, 60024AD.1
Anti-Mouse CD117 Antibody, Clone 2B8, Alexa Fluor® 488	60025AD, 60025AD.1
Anti-Mouse F4/80 Antibody, Clone BM8, Alexa Fluor® 488	60027AD, 60027AD.1
Anti-Mouse Gr-1 Antibody, Clone RB6-8C5, Alexa Fluor® 488	60028AD, 60028AD.1
Anti-Mouse Sca1 Antibody, Clone E13-161.7, Alexa Fluor® 488	60032AD, 60032AD.1
Anti-Mouse TER119 Antibody, Clone TER-119, Alexa Fluor® 488	60033AD
Anti-Mouse CD150 Antibody, Clone TC15-12F12.2, Alexa Fluor® 488	60036AD, 60036AD.1
Anti-Human CD49f Antibody, Clone GoH3, Alexa Fluor® 488	60037AD, 60037AD.1
Anti-Human CD105 Antibody, Clone 43A3, Alexa Fluor® 488	60039AD, 60039AD.1
Anti-Human CD11b Antibody, Clone ICRF44, Alexa Fluor® 488	60040AD, 60040AD.1
Anti-Mouse SSEA-1 Antibody, Clone MC-480, Alexa Fluor® 488	60060AD, 60060AD.1
Anti-Mouse SSEA-3 Antibody, Clone MC-631, Alexa Fluor® 488	60061AD, 60061AD.1
Anti-Human SSEA-4 Antibody, Clone MC-813-70, Alexa Fluor® 488	60062AD, 60062AD.1
Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, Alexa Fluor® 488	60064AD, 60064AD.1
Anti-Human TRA-1-81 Antibody, Clone TRA-1-81, Alexa Fluor® 488	60065AD, 60065AD.1
Anti-Mouse CD44 Antibody, Clone IM7, Alexa Fluor® 488	60068AD, 60068AD.1
Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, Alexa Fluor® 488	60069AD

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- 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:** July 08, 2013
- 1.7 Prepared By:** Quality Control
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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. Avoid prolonged or repeated exposure.
- 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.
- 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 with a green hue
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
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

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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 Applicable

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 04, 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 INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.**