

Safety Data Sheet

BIOTIN-CONJUGATED MONOCLONAL ANTIBODY
EFFECTIVE DATE: 2016-03-17

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 HIB19, 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 |
| Anti-Human CD24 Antibody, Clone 32D12, Biotin | 60134BT |

1.2 Product Use: Flow Cytometry

1.3 Manufacturer/Supplier: STEMCELL Technologies Inc.
 Suite 500-1618 Station Street
 Vancouver, British Columbia V6A 1B6 Canada

1.4 In Case of Emergency Call: 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards No data available

3 Composition / Information on Ingredients

3.1 Substances

| Hazardous Components (Chemical Name) | CAS # | Concentration | EC # |
|--------------------------------------|------------|---------------|-----------|
| Sodium azide | 26628-22-8 | <0.1% | 247-852-1 |

4 First Aid Measures

4.1 Description of first aid measures

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If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

4.1.3 In case of eye contact

Flush eyes with water as a precaution.

4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures**5.1 Extinguishing Media****5.1.1 Suitable Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.1.2 Unsuitable Extinguishing Media

No data available

5.2 Special hazards arising from the substance or mixture**5.2.1 Flammable Properties and Hazards**

No data available

5.2.2 Flash Pt

No data available

5.2.3 Autoignition Pt

No data available

5.2.4 Explosive Limits

LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products

No data available

5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

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For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

7 Handling and Storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure Controls/Personal Protection

8.1 Exposure limits

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

8.3 Personal protective equipment

8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3.4 General hygiene considerations

General industrial hygiene practice.

8.3.5 Environmental exposure controls

No data available

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

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| | |
|--|-------------------|
| Appearance | Clear liquid |
| Odour | No data available |
| Odour threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Boiling point/boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

10 Stability and Reactivity

| | |
|--|-------------------|
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | No data available |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | No data available |
| 10.5 Incompatible materials | No data available |
| 10.6 Hazardous decomposition products | No data available |

11 Toxicological Information

| | |
|---|-------------------|
| 11.1 Acute toxicity | |
| Oral: | No data available |
| Inhalation: | No data available |
| Dermal: | No data available |
| Other: | No data available |
| 11.2 Skin corrosion/irritation | No data available |
| 11.3 Serious eye damage/eye irritation | No data available |
| 11.4 Respiratory and/or skin sensitization | No data available |
| 11.5 Germ cell mutagenicity | |

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No data available

11.6 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

No data available

11.8 Specific target organ toxicity - single exposure

No data available

11.9 Specific target organ toxicity - repeated exposure

No data available

11.10 Aspiration hazard

No data available

11.11 Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence (Sodium azide)

11.13 RTECS # No data available

12 Ecological Information**12.1 Toxicity** No data available**12.2 Persistence and degradability** No data available**12.3 Bioaccumulative potential** No data available**12.4 Mobility in soil** No data available**12.5 Other adverse effects** No data available

13 Disposal Considerations**13.1 Waste disposal method**

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Contaminated packaging

Dispose of as unused product.

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14 Transport Information

| | | |
|--|-------------------|---------------------|
| 14.1 UN number | No data available | |
| 14.2 UN proper shipping name | DOT | Not dangerous goods |
| | ADR/RID | Not dangerous goods |
| | IMDG | Not dangerous goods |
| | IATA | Not dangerous goods |
| 14.3 Transport hazard class(es) | No data available | |
| 14.4 Packing group | No data available | |
| 14.5 Environmental hazards | No data available | |
| 14.6 Special precautions | No data available | |

15 Regulatory Information

15.1 USA

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312:

No SARA Hazards

Massachusetts Right To Know Components

| Component | CAS # | Revision Date |
|--------------|------------|---------------|
| Sodium azide | 26628-22-8 | 2007-07-01 |

Pennsylvania Right To Know Components

| Component | CAS # | Revision Date |
|--------------|------------|---------------|
| Sodium azide | 26628-22-8 | 2007-07-01 |

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.3 Canada

Not WHMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information

16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.

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16.3 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 Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.

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