

# Material Safety Data Sheet

Neutralization Buffer

Cat. No: 01735

## 1 Product and Company Identification

- 1.1 Product Name:** Neutralization Buffer
- 1.2 Catalogue Number:** 01735
- 1.3 Synonyms:** Not Available
- 1.4 Product Use:** For laboratory research purposes
- 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:** June 12, 2014
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Potentially biohazardous material derived from human blood.	Not Available	Not Available
Sodium Azide	26628-22-8	0.1%

## 3 Hazards Identification

- 3.1 Emergency Overview:** Contains components derived from human blood. As with all human derivatives, universal handling precautions are recommended. Sodium azide is a hazardous and poisonous substance. 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

## 4 First Aid Measures

- 4.1 Eyes:** In case of contact with eyes, remove contact lenses and flush thoroughly with water for at least 15 minutes. Separate lids with fingers to assure adequate flushing. 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.

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- 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:** Not Available
  - 5.5 **Conditions of Flammability:** Not Available
  - 5.6 **Extinguishing Media:** Use whatever is appropriate to the surrounding fire.
  - 5.7 **Fire Fighting Procedures:** Not Available – No toxic waste in run-off.
  - 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:** Contains components derived from human blood. Donors have been tested for hepatitis B surface antigen (HBsAg) and anti-HIV-1 and/or HIV-1 antigen. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions. Should be handled by trained personnel observing good laboratory practices. May cause allergic reaction in sensitized individuals. Avoid prolonged or repeated exposure. May be disposed of down drain but flush drain with large amounts of water.
  - 7.2 **Storage:** Store at 2 - 8°C
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## 8 Exposure Controls/Personal Protection

- 8.1 **Engineering Controls:** Use with adequate ventilation.
- 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.

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- 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
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## 9 Physical / Chemical Properties

- 9.1 Appearance:** Clear fluid
- 9.2 Odor:** Not Available
- 9.3 Physical State:** Liquid
- 9.4 pH:** Not Available
- 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
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## 10 Stability / Reactivity

- 10.1 Chemical Stability:** Stable
- 10.2 Conditions to Avoid:** Not Available
- 10.3 Incompatibility (Material to Avoid):** Heavy metals may form extremely explosive azides.
- 10.4 Hazardous Decomposition/By-Products:** Nature of decomposition products not known.
- 10.5 Hazardous Polymerization:** Not Available
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## 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

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<b>11.7 Teratogenicity and Embryotoxicity:</b>	Not Available
<b>11.8 Mutagenicity:</b>	Not Available
<b>11.9 Name of Toxicologically Synergistic Products:</b>	Not Available
<b>11.10 LD50 (specify species and route):</b>	Not Available
<b>11.11 LC50 (specify species):</b>	Not Available

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## 12 Ecological Information

**12.1** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Sodium azide is harmful to aquatic life with long lasting effects.

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## 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.

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## 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

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## 15 Regulatory Information

**15.1 WHMIS Classification:** D1A, D3

**15.2 Note:** This MSDS was prepared according to the Canadian Controlled Products Regulation and contains all the information required by those regulations.

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## 16 Other Information

**16.1 Preparation Information:** Not Available

**16.2 This MSDS has been revised in the following section(s):** 16.1

**16.3 Original Issue Date:** January 16, 2014

**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.

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