

# Material Safety Data Sheet

Trypan Blue

Cat. No: 00654, 07050

## 1 Product and Company Identification

<b>1.1 Product Name:</b>	Trypan Blue
<b>1.2 Catalogue Number:</b>	00654, 07050
<b>1.3 Synonyms:</b>	Not Available
<b>1.4 Product Use:</b>	Tissue Culture
<b>1.5 Manufacturer/Supplier:</b>	StemCell Technologies Inc. Suite 400, 570 West 7 <sup>th</sup> Avenue Vancouver, BC V5Z 1B3 Canada
<b>1.6 In Case of Emergency Call:</b>	604-877-0713
<b>1.7 Date Prepared:</b>	October 23, 2012
<b>1.8 Prepared By:</b>	Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-sulphonate]	72-57-1	0.4

## 3 Hazards Identification

<b>3.1 Emergency Overview:</b>	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. Potential carcinogen.
<b>3.2 Routes of Exposure:</b>	Absorbed through skin, eye contact, inhalation, and ingestion.
<b>3.3 Potential Health Effects:</b>	
<b>3.3.1 Eye:</b>	May cause eye irritation.
<b>3.3.2 Skin:</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>3.3.3 Inhalation:</b>	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
<b>3.3.4 Ingestion:</b>	May be harmful if swallowed.
<b>3.4 Chronic Effects/Carcinogenicity:</b>	Carcinogen.
<b>3.5 OSHA Regulatory Status:</b>	Not Available

## 4 First Aid Measures

<b>4.1 Eyes:</b>	In case of contact with eyes, flush thoroughly with water. Call a physician.
<b>4.2 Skin:</b>	In case of contact with skin, wash the affected area with soap and copious amounts of water. Should irritation occur, contact a physician.
<b>4.3 Ingestion:</b>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<b>4.4 Inhalation:</b>	If inhaled, remove person to fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>4.5 Puncture Wounds:</b>	Wash thoroughly with soap and water. Allow to bleed freely. Call a physician.

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4.6 **Note to Physician:** Not Available

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## 5 Fire Fighting Measures

- 5.1 **Flash Point/Method:** Not Applicable
- 5.2 **Explosive Limits:**
- 5.2.1 **Upper:** Not Applicable
- 5.2.2 **Lower:** Not Applicable
- 5.3 **Autoignition Temperature:** Not Applicable
- 5.4 **Hazardous Combustion Products:** Emits toxic fumes under fire conditions
- 5.5 **Conditions of Flammability:** Not Applicable
- 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 Applicable
- 5.8.2 **Sensitivity to Static Discharge:** Not Applicable
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## 6 Accidental Release Measures

- 6.1 **Leak and Spill Procedure:** Evacuate area. Wear personal protective equipment. Avoid breathing vapors, mist or gas. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.
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## 7 Handling and Storage

- 7.1 **Handling:** Avoid inhalation of vapor or mist. Safety shower and eye bath. Do not get in eyes, on skin or clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.
- 7.2 **Storage:** Keep tightly closed. Store in a cool, dry place at room temperature (15-25°C).
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## 8 Exposure Controls/Personal Protection

- 8.1 **Engineering Controls:** Use mechanical exhaust or laboratory fume hood.
- 8.2 **Personal Protective Equipment:**
- 8.2.1 **Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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- 8.2.2 Eye Protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- 8.2.3 Skin Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use.
- 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:** Dark blue liquid
- 9.2 Odor:** None
- 9.3 Physical State:** Liquid
- 9.4 pH:** Not Available
- 9.5 Boiling Point:** Not Available
- 9.6 Melting Point:** Not Applicable
- 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):** Strong oxidizing agents
- 10.4 Hazardous Decomposition/By-Products:** Nature of decomposition product not Known.
- 10.5 Hazardous Polymerization:** Not Applicable

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## 11 Toxicological Information

- 11.1 Effects of Short-Term Exposure:** Not Available

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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:	IARC: Group 2B: Possibly carcinogenic to humans (Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-sisulphonate])  ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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
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## 13 Disposal Considerations

13.1	Waste Disposal Method:	Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber. Observe all Federal, State, Provincial and Local environmental regulations.
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## 14 Transport Information

### 14.1 Transport Canada

14.1.1	PIN No.:	Not Available
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### 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:	D2A
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**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:** Refer to PIS No. 07050

**16.2 This MSDS has been revised in the following section(s):** 2.1, 3.3.2, 3.4, 4.4, 6.1, 7.1, 8.2, 9.4, 9.5, 9.7, 10.4, 11.3, 11.5

**16.3 Original Issue Date:** March 8, 1999

**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.**