

Material Safety Data Sheet

Trypan Blue

Cat. No: 00654, 07050

1 Product and Company Identification

- 1.1 **Product Name:** Trypan Blue
- 1.2 **Catalogue Number:** 00654, 07050
- 1.3 **Synonyms:** Not Available
- 1.4 **Product Use:** Tissue Culture
- 1.5 **Manufacturer/Supplier:** StemCell Technologies Inc.
Suite 400, 570 West 7th Avenue
Vancouver, BC V5Z 1B3
Canada
- 1.6 **In Case of Emergency Call:** 604-877-0713
- 1.7 **Date Prepared:** November 10, 2009
- 1.8 **Prepared By:** Quality Control

2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Trypan Blue Powder	72-57-1	0.4

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. Potential carcinogen.
- 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:** Carcinogen. May cause congenital malformation in the fetus.
- 3.5 **OSHA Regulatory Status:** Not Available

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 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

6 Accidental Release Measures

- 6.1 Leak and Spill Procedure:** Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Wear disposable coveralls and discard them after use. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 Handling and Storage

- 7.1 Handling:** NIOSH/MSHA-approved respirator, mechanical exhaust, chemical-resistant gloves, chemical safety goggles, other protective clothing. Safety shower and eye bath. Do not breathe vapor. 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).

8 Exposure Controls/Personal Protection

- 8.1 Engineering Controls:** Use only in chemical fume hood.
- 8.2 Personal Protective Equipment:**
- 8.2.1 Respiratory Protection:** Wear NIOSH/MSHA-approved respirator
 - 8.2.2 Eye Protection:** Wear chemical safety goggles
 - 8.2.3 Skin Protection:** Wear suitable protective clothing, heavy rubber gloves, rubber boots
- 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:	Dark blue liquid
9.2 Odor:	None
9.3 Physical State:	Liquid
9.4 pH:	Approximately 7.2
9.5 Boiling Point:	Approximately 100°C
9.6 Melting Point:	Not Applicable
9.7 Freezing Point:	Approximately 0°C
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

10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Not Applicable
10.3 Incompatibility (Material to Avoid):	Strong oxidizing agents
10.4 Hazardous Decomposition/By-Products:	Toxic fumes of Carbon Monoxide, Carbon Dioxide
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:	Severe irritant
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: 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.

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: D2A

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 PIS No. 07050

16.2 This MSDS has been revised in the following section(s): 1.1, 1.5, 1.8, 1.5.1

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 USED FOR DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.**