

# Material Safety Data Sheet

ALDEFLUOR™ DEAB Reagent, 1.5mM in 95% ethanol

Cat. No: 01705

## 1 Product and Company Identification

- 1.1 Product Name:** ALDEFLUOR™ DEAB Reagent, 1.5mM in 95% ethanol
- 1.2 Catalog Number:** 01705
- 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  
V5Z 1B3
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** October 24, 2011
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Ethyl alcohol	64-17-5	Not Available
4-Diethylaminobenzaldehyde	120-21-8	1.5 mM

## 3 Hazards Identification

- 3.1 Emergency Overview:** Danger; Highly flammable liquid and vapour; Causes eye and skin irritation. May cause respiratory irritation. Avoid breathing vapor or mist. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only with adequate ventilation. Avoid contact with eyes, skin and clothes. Wash thoroughly after handling.
- 3.2 Routes of Exposure:** Absorbed through skin, eye contact, inhalation, and ingestion.
- 3.3 Potential Health Effects:**
- 3.3.1 Eye:** Causes eye irritation.
- 3.3.2 Skin:** May be harmful if absorbed through skin. Causes skin irritation.
- 3.3.3 Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
- 3.3.4 Ingestion:** May be harmful if swallowed.
- 3.4 Chronic Effects/Carcinogenicity:** Not Available
- 3.5 OSHA Regulatory Status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 4 First Aid Measures

- 4.1 Eyes:** In case of contact with eyes, flush thoroughly with water for at least 15 minutes. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with soap and copious amounts of water. Contact a physician.

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- 4.3 Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician.
- 4.4 Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. 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:** Flammable. Keep away from heat/sparks/open flame/hot surface. No smoking.
- 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:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. 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:** Should be handled by trained personnel observing good laboratory practices. Avoid ingestion and inhalation. Avoid contact with eyes, skin and clothing. Avoid contact with heat, sparks and flame.
- 7.2 Storage:** Store at 2 - 8°C. Keep away from heat, sparks and flame. Keep away from sources of ignition. Keep container tightly closed.
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## 8 Exposure Controls/Personal Protection

- 8.1 Engineering Controls:** Safety shower and eye bath. Mechanical exhaust or laboratory fumehood required.
- 8.2 Personal Protective Equipment:**
- 8.2.1 Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 8.2.2 Eye Protection:** Chemical safety goggles.
- 8.2.3 Skin Protection:** Impervious clothing; compatible chemical-resistant gloves. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- 8.3 General Hygiene Considerations:** Wash hands thoroughly after use.
- 8.4 Exposure Limits:**
- 8.4.1 ACGIH TLV-TWA:** Ethyl alcohol: 1000 ppm TWA
- 8.4.2 OSHA PEL-TWA:** Ethyl alcohol: 1000 ppm TWA  
Ethyl alcohol: 1900 mg/m<sup>3</sup> TWA
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## 9 Physical/Chemical Properties:

- 9.1 Appearance:** Clear pale yellow liquid
- 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:** Not Available

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<b>10.2 Conditions to Avoid:</b>	Avoid heat, flames, sparks.
<b>10.3 Incompatibility (Material to Avoid):</b>	Not Available
<b>10.4 Hazardous Decomposition/By-Products:</b>	Not Available
<b>10.5 Hazardous Polymerization:</b>	Not Available

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## 11 Toxicological Information

<b>11.1 Effects of Short-Term Exposure:</b>	Ethyl alcohol: LD50 Oral - rat - 7,060 mg/kg LC50 Inhalation - rat - 10 h - 20,000 ppm 4-Diethylaminobenzaldehyde: LD50 Oral - rat - 6,460 mg/kg LD50 Dermal - rabbit - 400 mg/kg
<b>11.2 Effects of Long-Term Exposure:</b>	Not Available
<b>11.3 Irritancy of Product:</b>	Not Available
<b>11.4 Sensitization to Product:</b>	Not Available
<b>11.5 Carcinogenicity:</b>	Not Available
<b>11.6 Reproductive Toxicity:</b>	Ethyl alcohol: Human - female - oral
<b>11.7 Teratogenicity and Embryotoxicity:</b>	Not Available
<b>11.8 Mutagenicity (germ cell):</b>	Not Available
<b>11.9 Name of Toxicologically Synergistic Products:</b>	Not Available
<b>11.10 LD50 (specify species and route):</b>	Ethyl alcohol: LD50 Oral - rat - 7,060 mg/kg 4-Diethylaminobenzaldehyde: LD50 Oral - rat - 6,460 mg/kg LD50 Dermal - rabbit - 400 mg/kg
<b>11.11 LC50 (specify species):</b>	Ethyl alcohol: LC50 Inhalation - rat - 10 h - 20,000 ppm

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## 12 Ecological Information

### 12.1 Toxicity – Ethyl alcohol

Toxicity to fish	LC50 – Oncorhynchus mykiss (rainbow trout) – 13,000 mg/L – 96 h LC50 – Oncorhynchus mykiss (rainbow trout) – 10,400 mg/L – 96 h LC50 – Pimephales promelas (fathead minnow) – 15,300 mg/L – 96 h LC50 – other fish – 10,000 mg/L – 24 h
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## 13 Disposal Considerations

<b>13.1 Waste Disposal Method:</b>	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: Not Available

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: B2, D2B

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. 01700

16.2 This MSDS has been revised in the following section(s): Not applicable

16.3 Original Issue Date: October 24, 2011

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.**