

Safety Data Sheet

ALDEFLUOR™ ASSAY BUFFER
EFFECTIVE DATE: 2014-11-03

1 Product and Company Identification

- 1.1 **Product Name:** ALDEFLUOR™ Assay Buffer
- 1.2 **Catalog Number:** 01701, 01702
- 1.3 **Synonyms:** Not Available
- 1.4 **Product Use:** For Laboratory Research Purposes
- 1.5 **Manufacturer/Supplier:** STEMCELL Technologies Inc.
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.6 **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 Harmonised System (GHS).
- 2.2 **Label elements**
Not a hazardous substance or mixture.
- 2.3 **Other hazards** Human source material

3 Composition / Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
Human source material	No data available	No data available	No data available

4 First Aid Measures

- 4.1 **Description of first aid measures**
- 4.1.1 **If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- 4.1.2 **In case of skin contact**
Wash off with soap and plenty of water.
- 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.
- 4.2 **Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 **Indication of any immediate medical attention and special treatment needed**
No data available

Safety Data Sheet

ALDEFLUORTM ASSAY BUFFER**EFFECTIVE DATE: 2014-11-03**

5 Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media

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

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Fire Fighting Instructions

Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

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.

Safety Data Sheet

ALDEFLUOR™ ASSAY BUFFER
EFFECTIVE DATE: 2014-11-03

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 Other protection

Human source: Appropriate safety procedure must be followed for human source material as found in: [Canadian Biosafety Standards and Guidelines \(CBSG\), First Edition](#).

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Transparent fluid
Odour	No data available
Odour threshold	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Decomposition temperature	No data available
Relative density	No data available
Solubility in water	No data available
Solubility in other liquids	No data available
pH	6.5 - 7.1
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Vapour pressure	No data available
Vapour density	No data available
Evaporation rate	No data available
Flash point	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Auto-ignition temperature	No data available

9.2 Other information

No data available

10 Stability and Reactivity

10.1 Reactivity

No data available

Safety Data Sheet**ALDEFLUOR™ ASSAY BUFFER****EFFECTIVE DATE: 2014-11-03**

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**
No data available
- 11.2 Skin corrosion/irritation**
No data available
- 11.3 Serious eye damage/eye irritation**
No data available
- 11.4 Aspiration hazard**
No data available
- 11.5 Specific target organ toxicity - single exposure**
No data available
- 11.6 Specific target organ toxicity - repeated exposure**
No data available
- 11.7 Respiratory and/or skin sensitization**
No data available
- 11.8 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.
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.
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.
- 11.9 Reproductive toxicity**
No data available
- 11.10 Germ cell mutagenicity**
No data available
- 11.11 Signs and symptoms of exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- 11.12 RTECS #** No data available

12 Ecological Information

- 12.1 Toxicity** No data available

Safety Data Sheet

ALDEFLUORTM ASSAY BUFFER**EFFECTIVE DATE: 2014-11-03**

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	Dispose in accordance with local, provincial/state, and federal regulations.
-----------------------------------	--

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 WHMIS Classification

Not WHMIS controlled

15.2 Regulatory information statement

This SDS was prepared according to the Canadian Controlled Products Regulation and contains all the information required by those regulations.

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

16 Other Information

16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.**16.2 Revision:** N/A**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.

Safety Data Sheet**ALDEFLUOR[™] ASSAY BUFFER****EFFECTIVE DATE: 2014-11-03**

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

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N**EFFECTIVE DATE: 2015-05-05**

1 Product and Company Identification

- 1.1 Product Name:** Hydrochloric Acid (HCl), 2N
- 1.2 Catalog Number:** 01704
- 1.3 Product Use:** Laboratory Chemical
- 1.4 Manufacturer/Supplier:** STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.5 In Case of Emergency Call:** 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Corrosive to metals (Category 1)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

2.2 Label elements

Pictogram



Signal word Danger

Hazard statement(s)

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

2.3 Other hazards No data available

Safety Data Sheet**HYDROCHLORIC ACID (HCl), 2N****EFFECTIVE DATE: 2015-05-05****3 Composition / Information on Ingredients****3.1 Substances**

Synonyms	Hydrochloric acid solution, hydrogen chloride
Molecular formula	HCl
Molecular weight	36.46 g/mol

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
hydrogen chloride	7647-01-0	7.29%	231-595-7

4 First Aid Measures**4.1 Description of first aid measures****4.1.1 If inhaled**

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

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.1.3 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

4.1.4 If swallowed

Do NOT induce vomiting. 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**

Not flammable or combustible.

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N

EFFECTIVE DATE: 2015-05-05

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

Hydrogen chloride gas

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

For precautions see section 2.2.

7.2 Conditions for safe storage

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

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8 Exposure Controls/Personal Protection

8.1 Exposure limits

Components with workplace control parameters

Component	CAS #	Value	Control parameters	Basis
hydrogen chloride	7647-01-0	(c)	2 ppm 3 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N
EFFECTIVE DATE: 2015-05-05

Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
	C	2 ppm	Canada. British Columbia OEL	
	C	5 ppm 7.5 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants	
A substance which may not be recirculated in accordance with section 108				
	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)	
Remarks	Upper Respiratory Tract irritation Not classifiable as a human carcinogen			
	C	5 ppm 7.5 mg/m ³	USA. NIOSH Recommended Exposure Limits	
Often used in an aqueous solution.				
	C	5 ppm 7.5 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
The value in mg/m ³ is approximate. Ceiling limit is to be determined from breathing-zone air samples.				
	C	5 ppm 7.5 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
	TWA	5 ppm 8 mg/m ³	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values	
Indicative				
	STEL	10 ppm 15 mg/m ³	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values	
Indicative				

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

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N
EFFECTIVE DATE: 2015-05-05

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

Do not let product enter drains.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Colourless 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	Not applicable
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	Stable under recommended storage conditions.
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	Hazardous decomposition products formed under fire conditions - Hydrogen chloride gas

11 Toxicological Information

11.1 Acute toxicity

Oral: No data available

Safety Data Sheet**HYDROCHLORIC ACID (HCl), 2N****EFFECTIVE DATE: 2015-05-05**

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

No data available

11.6 Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

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. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

11.12 Signs and symptoms of exposure

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

Stomach - Irregularities - Based on Human Evidence (Sulfuric acid)

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

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N
EFFECTIVE DATE: 2015-05-05

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. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN number

DOT	1789
ADR/RID	1789
IMDG	1789
IATA	1789

14.2 UN proper shipping name

DOT	Hydrochloric acid
ADR/RID	HYDROCHLORIC ACID
IMDG	HYDROCHLORIC ACID
IATA	Hydrochloric acid

14.3 Transport hazard class(es)

DOT	8
ADR/RID	8
IMDG	8
IATA	8

14.4 Packing group

DOT	III
ADR/RID	III
IMDG	III
IATA	III

14.5 Environmental hazards

DOT	Marine pollutant: No
ADR/RID	No
IMDG	Marine pollutant: No
IATA	No

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:

The following components are subject to reporting levels established by SARA Title III, Section 313:

Safety Data Sheet

HYDROCHLORIC ACID (HCl), 2N

EFFECTIVE DATE: 2015-05-05

Component	CAS #	Revision Date
Hydrogen chloride	7647-01-0	1993-04-24

SARA 311/312:

Acute Health Hazard

Massachusetts Right To Know Components

Component	CAS #	Revision Date
Hydrogen chloride	7647-01-0	1993-04-24

Pennsylvania Right To Know Components

Component	CAS #	Revision Date
Hydrogen chloride	7647-01-0	1993-04-24
Water	7732-18-5	

New Jersey Right To Know Components

Component	CAS #	Revision Date
Hydrogen chloride	7647-01-0	1993-04-24
Water	7732-18-5	

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

WHMIS Classification: E Corrosive Material

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.**16.2 Revision:** N/A

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.**

Safety Data Sheet

ALDEFLUOR™ DEAB REAGENT, 1.5 MM

EFFECTIVE DATE: 2015-05-05

1 Product and Company Identification

- 1.1 **Product Name:** ALDEFLUOR™ Diethylaminobenzaldehyde (DEAB) Reagent, 1.5 mM in 95% ethanol
- 1.2 **Catalog Number:** 01705
- 1.3 **Product Use:** Laboratory Chemical
- 1.4 **Manufacturer/Supplier:** STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.5 **In Case of Emergency Call:** 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Flammable liquids (Category 2)
Eye irritation (Category 2B)

2.2 Label elements

Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H320 Causes eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists: Get medical advice/ attention.

Safety Data Sheet**ALDEFLUORTM DEAB REAGENT, 1.5 MM****EFFECTIVE DATE: 2015-05-05**

P370+378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

2.3 Other hazards

No data available

3 Composition / Information on Ingredients**3.1 Substances**

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
ethyl alcohol	64-17-5	95%	200-578-6
4-diethylaminobenzaldehyde	120-21-8	0.03%	204-377-4

4 First Aid Measures**4.1 Description of first aid measures****4.1.1 If inhaled**

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.1.4 If swallowed

Do NOT induce vomiting. 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**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Safety Data Sheet

ALDEFLUOR[™] DEAB REAGENT, 1.5 MM**EFFECTIVE DATE: 2015-05-05****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

Carbon oxides

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**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7 Handling and Storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage

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

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Safety Data Sheet

ALDEFLUOR™ DEAB REAGENT, 1.5 MM
EFFECTIVE DATE: 2015-05-05

8 Exposure Controls/Personal Protection

8.1 Exposure limits

Components with workplace control parameters

Component	CAS #	Value	Control parameters	Basis
ethyl alcohol	64-17-5	TWA	1000 ppm 1800 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWAEV	1000 ppm 1800 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEL	1000 ppm	Canada. British Columbia OEL
		TWA	1000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1000 ppm 1900 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m ³ is approximate.		
		TWA	1000 ppm 1900 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	1000 ppm 1920 mg/m ³	UK. EH40 WEL – Workplace Exposure Limits
		Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used		

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).

Safety Data Sheet

ALDEFLUOR[™] DEAB REAGENT, 1.5 MM**EFFECTIVE DATE: 2015-05-05****8.3.4 General hygiene considerations**

General industrial hygiene practice.

8.3.5 Environmental exposure controls

Do not let product enter drains.

9 Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Appearance	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	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Vapours may form explosive mixture with air.
10.4 Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - Carbon oxides

11 Toxicological Information**11.1 Acute toxicity**

Oral:	No data available
Inhalation:	No data available

Safety Data Sheet**ALDEFLUORTM DEAB REAGENT, 1.5 MM****EFFECTIVE DATE: 2015-05-05**

Dermal: No data available

Other: No data available

11.2 Skin corrosion/irritation

No data available

11.3 Serious eye damage/eye irritation

Eyes: no data available

11.4 Respiratory and/or skin sensitization

No data available

11.5 Germ cell mutagenicity

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. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

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

Eyes: Causes 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.

Stomach - Irregularities - Based on Human Evidence (Ethanol)

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

Safety Data Sheet

ALDEFLUOR™ DEAB REAGENT, 1.5 MM
EFFECTIVE DATE: 2015-05-05

13 Disposal Considerations

13.1 Waste disposal method

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN number	DOT	1170
	ADR/RID	1170
	IMDG	1170
	IATA	1170
14.2 UN proper shipping name	DOT	Ethanol solutions
	ADR/RID	ETHANOL SOLUTION
	IMDG	ETHANOL SOLUTION
	IATA	Ethanol solution
14.3 Transport hazard class(es)	DOT	3
	ADR/RID	3
	IMDG	3
	IATA	3
14.4 Packing group	DOT	II
	ADR/RID	II
	IMDG	II
	IATA	II
14.5 Environmental hazards	DOT	Marine pollutant: No
	ADR/RID	No
	IMDG	Marine pollutant: No
	IATA	No
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:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Safety Data Sheet

ALDEFLUORTM DEAB REAGENT, 1.5 MM**EFFECTIVE DATE: 2015-05-05****Massachusetts Right To Know Components**

Component	CAS #	Revision Date
ethyl alcohol	64-17-5	2007-03-01

Pennsylvania Right To Know Components

Component	CAS #	Revision Date
ethyl alcohol	64-17-5	2007-03-01
Water	7732-18-5	
4-diethylaminobenzaldehyde	120-21-8	

New Jersey Right To Know Components

Component	CAS #	Revision Date
ethyl alcohol	64-17-5	2007-03-01
Water	7732-18-5	
4-diethylaminobenzaldehyde	120-21-8	

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

WHMIS Classification: B2 Flammable liquid

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.

16.2 Revision: N/A

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.**

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)**EFFECTIVE DATE: 2015-05-05**

1 Product and Company Identification

- 1.1 Product Name:** Dimethylsulphoxide (DMSO)
- 1.2 Catalog Number:** 01706
- 1.3 Product Use:** Laboratory Chemical
- 1.4 Manufacturer/Supplier:** STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.5 In Case of Emergency Call:** 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Flammable liquids (Category 4)

2.2 Label elements

Pictogram None**Signal word** Warning

Hazard statement(s)

H227 Combustible liquid.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

2.3 Other hazards

 No data available

3 Composition / Information on Ingredients

3.1 Substances

Synonyms Methyl sulfoxide**Molecular formula** C₂H₆OS**Molecular weight** 78.13 g/mol

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
dimethyl sulfoxide	67-68-5	≤100%	200-664-3

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)**EFFECTIVE DATE: 2015-05-05**

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled

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

Rinse thoroughly with plenty of water for at least 15 minutes as a precaution.

4.1.4 If swallowed

Do NOT induce vomiting. 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

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

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

Carbon oxides, sulphur oxides

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.

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)

EFFECTIVE DATE: 2015-05-05

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

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

Components with workplace control parameters

Component	CAS #	Value	Control parameters	Basis
dimethyl sulfoxide	67-68-5	TWA	250.000000 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

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.

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)**EFFECTIVE DATE: 2015-05-05****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

Do not let product enter drains.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear, colourless liquid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	16 - 19°C (61 - 66°F)
Boiling point/boiling range	189°C (372°F)
Flash point	87°C (189°F) - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit - 42% (V) Lower explosion limit - 3.5% (V)
Vapour pressure	0.55 hPa (0.41 mmHg) at 20°C (68°F)
Density	1.1 g/mL
Relative vapour density	2.70 - (Air = 1.0)
Solubility	H ₂ O - completely miscible
Partition coefficient: n-octanol/water	log Pow: -2.03
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	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)**EFFECTIVE DATE: 2015-05-05**

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Carbon oxides, sulphur oxides

11 Toxicological Information

11.1 Acute toxicity

Oral: LD50 Oral - Rat - 14,500 mg/kg
Inhalation: LC50 Inhalation - Rat - 4 h – 40,250 ppm
Dermal: LD50 Dermal - Rabbit - > 5000 mg/kg
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

Genotoxicity in vitro - Mouse – lymphocyte
Cytogenetic analysis
Genotoxicity in vitro - Mouse – lymphocyte
Mutation in mammalian somatic cells
Genotoxicity in vivo - Rat - Intraperitoneal
Cytogenetic analysis
Genotoxicity in vivo - Mouse - Intraperitoneal
DNA damage

11.6 Carcinogenicity

Carcinogenicity - Rat - Oral
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.
Carcinogenicity - Mouse - Oral
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Other: Tumors.
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.
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.
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

Reproductive toxicity - Rat – Intraperitoneal
Effects on Fertility: Abortion.

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)**EFFECTIVE DATE: 2015-05-05**

Reproductive toxicity - Rat - Intraperitoneal

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity - Rat - Subcutaneous

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Reproductive toxicity - Mouse – Oral

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity - Mouse - Intraperitoneal

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

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.

Aggravated Medical Condition: Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.

11.12 Signs and symptoms of exposure

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

Effects due to ingestion may include: Nausea, Fatigue, Headache

Eyes - Eye disease - Based on Human Evidence

11.13 RTECS # PV6210000

12 Ecological Information**12.1 Toxicity**

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/L - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/L - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 24,600 mg/L - 48 h (OECD Test Guideline 202)

Safety Data Sheet

DIMETHYLSULPHOXIDE (DMSO)
EFFECTIVE DATE: 2015-05-05

Toxicity to algae

EC50 - Pseudokirchneriella subcapitata (green algae) - 17,000 mg/L - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability

Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Other adverse effects No data available

Stability in water: - 0.12 - 1.2 h at 30°C

Remarks: Hydrolyses readily.

13 Disposal Considerations
13.1 Waste disposal method

Offer surplus and non-recyclable solutions to a licensed disposal company. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information
14.1 UN number

DOT	1993
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2 UN proper shipping name

DOT	Combustible liquid, n.o.s. (Dimethyl sulfoxide)
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3 Transport hazard class(es)

DOT	NONE
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4 Packing group

DOT	III
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5 Environmental hazards

DOT	Marine pollutant: No
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.6 Special precautions

No data available

Safety Data Sheet**DIMETHYLSULPHOXIDE (DMSO)****EFFECTIVE DATE: 2015-05-05****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:

Fire Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Component	CAS #	Revision Date
dimethyl sulfoxide	67-68-5	2007-03-01

New Jersey Right To Know Components

Component	CAS #	Revision Date
dimethyl sulfoxide	67-68-5	2007-03-01

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

WHMIS Classification: B3 Combustible Liquid

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.

16.2 Revision: N/A

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.**