

## Safety Data Sheet

**CELLADHERE™ LAMININ-521**
**EFFECTIVE DATE: 2016-04-04**

### 1 Product and Company Identification

- 1.1 **Product Name:** CellAdhere™ Laminin-521
- 1.2 **Catalog Number:** 77003, 77004
- 1.3 **Product Use:** Cell Culture
- 1.4 **Manufacturer/Supplier:** STEMCELL Technologies Inc.  
 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

Skin Irritation (Category 3)  
 Eye Irritation (Category 2B)

#### 2.2 Label elements

**Pictogram** None

**Signal word** Warning

#### Hazard statement(s)

H316 Causes mild skin irritation.  
 H320 Causes eye irritation.

#### Precautionary statement(s)

P264 Wash {hands} thoroughly after handling.  
 P332+313 If skin irritation occurs, get medical advice/attention.  
 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.

2.3 **Other hazards** No data available

### 3 Composition / Information on Ingredients

#### 3.1 Substances

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
Glycerol	56-81-5	10%	200-289-5
Sodium azide	26628-22-8	<0.1%	247-852-1

### 4 First Aid Measures

#### 4.1 Description of first aid measures

##### 4.1.1 If inhaled

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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**

Flush eyes with water as a precaution. Consult a physician.

**4.1.4 If swallowed**

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

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**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**

No data available

**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.

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**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.

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**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 contact with skin and eyes. 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.

### 8 Exposure Controls/Personal Protection

**8.1 Exposure limits**

Component	CAS #	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWAEV	10 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	10 mg/m <sup>3</sup>	Canada. British Columbia OEL
		TWA	3 mg/m <sup>3</sup>	Canada. British Columbia OEL
		TWA	10 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation		
		See Appendix D - Substances with No Established RELs		
		TWA	5 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 mg/m <sup>3</sup>	UK. EH40 WEL – Workplace Exposure Limits
	Remarks	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used		

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### 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).

#### 8.3.4 General hygiene considerations

General industrial hygiene practice.

#### 8.3.5 Environmental exposure controls

No data available

## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless solution
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

**Safety Data Sheet****CELLADHERE<sup>TM</sup> LAMININ-521****EFFECTIVE DATE: 2016-04-04****10 Stability and Reactivity**

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	No data available
<b>10.3 Possibility of hazardous reactions</b>	No data available
<b>10.4 Conditions to avoid</b>	Strong oxidizing agents
<b>10.5 Incompatible materials</b>	No data available
<b>10.6 Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions - Carbon oxides

**11 Toxicological Information****11.1 Acute toxicity**

Oral:	No data available
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:	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. May cause respiratory tract irritation.

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- Ingestion: May be harmful if swallowed.  
 Skin: May be harmful if absorbed through skin. May cause skin irritation.  
 Eyes: May cause 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.

Prolonged or repeated exposure (to glycerol) can cause: Nausea, Headache, Vomiting

Kidney - Irregularities - Based on Human Evidence (Glycerol)

Liver - Irregularities - Based on Human Evidence (Sodium azide)

**11.13 RTECS #** No data available

**12 Ecological Information**

- |   |                   |
|---|-------------------|
| <b>12.1 Toxicity</b>                      | No data available |
| <b>12.2 Persistence and degradability</b> | No data available |
| <b>12.3 Bioaccumulative potential</b>     | No data available |
| <b>12.4 Mobility in soil</b>              | No data available |
| <b>12.5 Other adverse effects</b>         | No data available |

**13 Disposal Considerations**

- 13.1 Waste disposal method**  
 Offer surplus and non-recyclable solutions to a licensed disposal company.
- 13.2 Contaminated packaging**  
 Dispose of as unused product.

**14 Transport Information**

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|--|--|
| <b>14.1 UN number</b>                  | No data available  |
| <b>14.2 UN proper shipping name</b>    | DOT Not dangerous goods<br>ADR/RID Not dangerous goods<br>IMDG Not dangerous goods<br>IATA Not dangerous goods |
| <b>14.3 Transport hazard class(es)</b> | No data available  |
| <b>14.4 Packing group</b>              | No data available  |
| <b>14.5 Environmental hazards</b>      | No data available  |
| <b>14.6 Special precautions</b>        | No data available  |

**15 Regulatory Information**

- 15.1 USA**  
**SARA 302 Components:**

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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:**

Chronic Health Hazard (Glycerol)

**Massachusetts Right To Know Components**

Component	CAS #	Revision Date
Glycerol	56-81-5	2007-03-01
Sodium azide	26628-22-8	2007-07-01

**Pennsylvania Right To Know Components**

Component	CAS #	Revision Date
Glycerol	56-81-5	2007-03-01
Sodium azide	26628-22-8	2007-07-01

**New Jersey Right To Know Components**

Component	CAS #	Revision Date
Glycerol	56-81-5	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**

Not WHMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

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**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.**