

## Safety Data Sheet

**Fumonisin B1****EFFECTIVE DATE: 2016-05-18**

### 1 Product and Company Identification

- 1.1 Product Name:** Fumonisin B1
- 1.2 Product Identifier:** 2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-tri hydroxy-5,9-dimethylicosan-7-yl]oxy-2-oxoethyl]butanedioic acid
- 1.3 Catalog Number:** 73682, 73684
- 1.4 Product Use:** Laboratory Chemical
- 1.5 Manufacturer/Supplier:** STEMCELL Technologies  
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

Acute Toxicity - Inhalation, Category 4  
Acute Toxicity - Oral, Category 4  
Acute Toxicity - Dermal, Category 4  
Carcinogenicity, Category 2  
Reproductive Toxicity, Category 2

#### 2.2 Label elements

##### Pictogram



**Signal word** Warning

##### Hazard statement(s)

H332 Harmful if inhaled.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

##### Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Safety Data Sheet

### Fumonisin B1

**EFFECTIVE DATE: 2016-05-18**

P301+312	IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN Wash with plenty of soap and water.
P304+340	IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+313	IF exposed or concerned Get medical advice/attention.
P330	Rinse mouth.
P362+364	Take off contaminated clothing and wash it before reuse.
<b>2.3 Other hazards</b>	No data available

## 3 Composition / Information on Ingredients

### 3.1 Substances

<b>Synonyms</b>	2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-tri hydroxy-5,9-dimethylicosan-7-yl]oxy-2-oxoethyl]butanedioic acid
<b>Molecular formula</b>	C <sub>34</sub> H <sub>59</sub> NO <sub>15</sub>
<b>Molecular weight</b>	721.8

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-tri hydroxy-5,9-dimethylicosan-7-yl]oxy-2-oxoethyl]butanedioic acid	116355-83-0	100%	N/A

## 4 First Aid Measures

### 4.1 Description of first aid measures

#### 4.1.1 If inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

#### 4.1.2 In case of skin contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

#### 4.1.3 In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

#### 4.1.4 If swallowed

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

### 4.2 Most important symptoms and effects, both acute and delayed

The toxicological properties of this product have not been fully evaluated.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## Safety Data Sheet

**Fumonisin B1****EFFECTIVE DATE: 2016-05-18**

### 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.

Use water spray to cool fire-exposed containers.

##### 5.1.2 Unsuitable Extinguishing Media

A solid water stream may be inefficient.

#### 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

No data available

#### 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

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved (or equivalent) self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

#### 6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.

#### 6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

## Safety Data Sheet

### Fumonisin B1

**EFFECTIVE DATE: 2016-05-18**

#### 7.2 Conditions for safe storage

Keep container tightly closed.

Store in accordance with information listed on the product insert.

## 8 Exposure Controls/Personal Protection

### 8.1 Exposure limits

Component	CAS #	Value	Control parameters
2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-trihydroxy-5,9-dimethylicosan-7-yl]oxy-2-oxoethyl]butanedioic acid	116355-83-0	No data available	No data available

### 8.2 Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### 8.3 Personal protective equipment

#### 8.3.1 Eye/face protection

Safety glasses

#### 8.3.2 Skin protection

Compatible chemical-resistant gloves

Lab coat

#### 8.3.3 Respiratory protection

NIOSH (US) or CEN (EU) approved respirator, as conditions warrant.

#### 8.3.4 General hygiene considerations

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wash thoroughly after handling.

#### 8.3.5 Environmental exposure controls

No data available

## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	A crystalline solid
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

## Safety Data Sheet

### Fumonisin B1

**EFFECTIVE DATE: 2016-05-18**

Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	~18.5 mg/mL in PBS (pH 7.2); ~10 mg/mL in methanol and acetonitrile
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

#### 9.2 Other information

Molecular formula  
Molecular weight

---

### 10 Stability and Reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	Carbon dioxide Carbon monoxide Nitrogen oxides

---

### 11 Toxicological Information

#### 11.1 Acute toxicity

Oral: TDLO (rat): 0.3 mg/kg  
TDLO (mouse): 25 mg/kg  
TDLO (monkey): 1 mg/kg  
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

## Safety Data Sheet

### Fumonisin B1

**EFFECTIVE DATE: 2016-05-18**

#### 11.6 Carcinogenicity

- IARC: Group 2B: Possibly carcinogenic to humans  
Group 3: Not classifiable as to its carcinogenicity to humans
- 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

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: Harmful if inhaled.  
Material may be irritating to the mucous membranes and upper respiratory tract.
- Ingestion: Harmful if swallowed.
- Skin: Harmful in contact with skin.  
May cause skin irritation.
- Eyes: May cause eye irritation.
- Other: Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.

#### 11.12 Signs and symptoms of exposure

Investigated as a tumorigen, mutagen, reproductive effector.

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

#### 11.13 RTECS #

TZ8350000

---

## 12 Ecological Information

#### 12.1 Toxicity

Avoid release into the environment.  
Runoff from fire control or dilution water may cause pollution.

#### 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

**Fumonisin B1**
**EFFECTIVE DATE: 2016-05-18**

### 13 Disposal Considerations

#### 13.1 Waste disposal method

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

#### 13.2 Contaminated packaging

Dispose of as unused product.

### 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 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)
2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-trihydroxy-5,9-dimethylcosan-7-yl]oxy-2-oxoethyl]butanedioic acid	116355-83-0	No	No	No

#### 15.2 Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP, ODC	CWA NPDES	TSCA	CA PROP.65
2-[2-[19-amino-6-(3,4-dicarboxybutanoyloxy)-11,16,18-trihydroxy-5,9-dimethylcosan-7-yl]oxy-2-oxoethyl]butanedioic acid	116355-83-0	No	No	No	Yes

#### 15.3 EU

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

#### 15.4 Canada

 WHMIS Classification: D2A Very toxic material causing other toxic effects. Teratogen.  
 D2B Toxic material causing other toxic effects. Carcinogen  
 Mutagen.

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

## Safety Data Sheet

**Fumonisin B1****EFFECTIVE DATE: 2016-05-18**

### 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.**