

Chaetocin Effective Date: 2016-05-18

# 1 Product and Company Identification

1.1 Product Name: Chaetocir

**1.2 Product Identifier:** Chaetocin from Chaetomium minutum

**1.3 Catalog Number:** 73592

**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

### 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.

# Precautionary statement(s)

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.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P362+364 Take off contaminated clothing and wash it before reuse.

**2.3 Other hazards** No data available

73592-SDS\_GHS Page 1 of 7



Chaetocin Effective Date: 2016-05-18

## 3 Composition / Information on Ingredients

#### 3.1 Substances

**Synonyms** (3S,3'S,5aR,5aR,10bR,10'bR,11aS,11'aS)-2,2',3,3',5a,5'a,6,6'-

octahydro-3,3'-bis(hydroxymethyl)-2,2'-dimethyl-[10b,10'b(11H,11'H)-bi3,11a-epidithio-11aH-

pyrazino[1',2':1,5]pyrrolo[2,3-b]indole]-1,1',4,4'-tetrone; Chaetocin A; Chaetocin from Chaetomium minutum

Molecular formula  $C_{30}H_{28}N_6O_6S_4$ 

Molecular weight 696.8

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#
(3S,3'S,5aR,5aR,10bR,10'bR,11aS,11'aS)-2,2',3,3',5a,5'a,6,6'-octahydro-3,3'-bis(hydroxymethyl)-2,2'-dimethyl-[10b,10'b(11H,11'H)-bi3,11a -epidithio-11aH-pyrazino[1',2':1,5]pyrrolo [2,3-b]indole]-1,1',4,4'-tetrone	28097-03-2	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

### 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.

73592-SDS\_GHS Page 2 of 7



Chaetocin Effective Date: 2016-05-18

### 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.

# 7.2 Conditions for safe storage

Keep container tightly closed.

Store in accordance with information listed on the product insert.

73592-SDS GHS Page 3 of 7



Chaetocin Effective Date: 2016-05-18

# 8 Exposure Controls/Personal Protection

#### 8.1 Exposure limits

Component	CAS#	Value	Control parameters
(3S,3'S,5aR,5aR,10bR,10'bR,11aS,11'aS)-2,2',3,3',5a,5'a,6,6'-octahydro -3,3'-bis(hydroxymethyl)-2,2'-dimethyl-[10b,10'b(11H,11'H)-bi3,11a-epidithio-11aH-pyrazino[1',2':1,5]pyrrolo[2,3-b]indole]-1,1',4,4'-tetrone	28097-03-2	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
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	~25 mg/mL in DMSO

73592-SDS\_GHS Page 4 of 7



Chaetocin Effective Date: 2016-05-18

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

No data available

No data available

10 Stability and Reactivity

**10.1 Reactivity** No data available

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions No data available10.4 Conditions to avoid No data available

**10.5** Incompatible materials Strong oxidizing agents

**10.6 Hazardous decomposition products**No data available

11 Tayloglasical Information

# 11 Toxicological Information

### 11.1 Acute toxicity

Oral: LD50 (mouse): 1200 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

#### 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.

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



Chaetocin Effective Date: 2016-05-18

### 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.

## 11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

**11.13 RTECS #** FM3032000

# 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

### 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

73592-SDS\_GHS Page 6 of 7



Chaetocin Effective Date: 2016-05-18

## 15 Regulatory Information

#### 15.1 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)
(3S,3'S,5aR,5aR,10bR,10'bR,11aS,11'aS)-2,2',3,3',5a, 5'a,6,6'-octahydro-3,3'-bis(hydroxymethyl)-2,2'-dimethyl-10b,10'b(11H,11'H)-bi3,11a-epidithio-11aH-pyrazino [1',2':1,5]pyrrolo[2,3-b]indole]-1,1',4,4'-tetrone	28097-03-2	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
(3S,3'S,5aR,5aR,10bR,10'bR,11aS,11'aS)-2,2',3,3',5a,5'a,6,6'-octahydro-3,3'-bis(hydroxymethyl)-2,2'-dimethyl-[10b,10'b(11H,11'H)-bi3,11a-epidithio-11aH-pyrazino [1',2':1,5]pyrrolo[2,3-b]indole]-1,1',4,4'-tetrone	28097-03-2	No	No	No	No

#### 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:

D1B Toxic material causing immediate and serious toxic effects. Toxic by inhalation 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.** 

73592-SDS\_GHS Page 7 of 7