

## Safety Data Sheet

**(-)-BLEBBISTATIN**
**EFFECTIVE DATE: 2014-09-24**

### 1 Product and Company Identification

- |                                       |   |
|---------------------------------------|---|
| <b>1.1 Product Name:</b>              | (-)-Blebbistatin  |
| <b>1.2 Product Identifier:</b>        | (3aS)-3a-hydroxy-6-methyl-1-phenyl-2,3-dihydropyrrolo[2,3-b]quinolin-4-one  |
| <b>1.3 Catalog Number:</b>            | 72402, 72404  |
| <b>1.4 Synonyms:</b>                  | (S)-3a-hydroxy-6-methyl-1-phenyl-1,2,3,3a-tetrahydro-4H-pyrrolo[2,3-b]quinolin-4-one; 1,2,3,3a-tetrahydro-3aS-hydroxy-6-methyl-1-phenyl-4H-Pyrrolo[2,3-b]quinolin-4-one |
| <b>1.5 Product Use:</b>               | Laboratory Chemical   |
| <b>1.6 Manufacturer/Supplier:</b>     | STEMCELL Technologies<br>Suite 500-1618 Station Street<br>Vancouver, British Columbia V6A 1B6 Canada  |
| <b>1.7 In Case of Emergency Call:</b> | 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: Skin, Category 4  
 Skin Corrosion/Irritation, Category 2  
 Serious Eye Damage/Eye Irritation, Category 2  
 Skin Sensitization, Category 1  
 Target Organ Systemic Toxicity (single exposure), Category 3

#### 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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

##### Precautionary statement(s)

P261	Avoid breathing {dust/fume/gas/mist/vapours/spray}.
P264	Wash {hands} thoroughly after handling.

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P280	Wear {protective gloves/protective clothing/eye protection/face protection}.
P362	Take off contaminated clothing and wash it before reuse.
P272	Contaminated work clothing should not be allowed out of the workplace.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a {POISON CENTER/doctor/...} if you feel unwell.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment {see ... on this label}.
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.
P333+313	If skin irritation or rash occurs, seek medical advice/attention.
P309+311	Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**2.3 Other hazards** No data available

### 3 Composition / Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
(-)-Blebbistatin	856925-71-8	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 20 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 20 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.

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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

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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.  
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.

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**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.

**Safety Data Sheet****(-)-BLEBBISTATIN****EFFECTIVE DATE: 2014-09-24****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.

**8 Exposure Controls/Personal Protection****8.1 Exposure limits**

Component	CAS #	Value	Control parameters
(-)-Blebbistatin	856925-71-8	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
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Decomposition temperature	No data available

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Relative density	No data available
Solubility in water	No data available
Solubility in other liquids	~0.5 mg/mL in 1:1 DMF:PBS (pH 7.2); ~12.5 mg/mL in DMSO & DMF
pH	No data available
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**

Molecular formula	C <sub>18</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
Molecular weight	292.3

**10 Stability and Reactivity**

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	Stable
<b>10.3 Possibility of hazardous reactions</b>	No data available
<b>10.4 Conditions to avoid</b>	No data available
<b>10.5 Incompatible materials</b>	No data available
<b>10.6 Hazardous decomposition products</b>	No data available

**11 Toxicological Information**

<b>11.1 Acute toxicity</b>	No data available
<b>11.2 Skin corrosion/irritation</b>	No data available
<b>11.3 Serious eye damage/eye irritation</b>	No data available
<b>11.4 Aspiration hazard</b>	No data available
<b>11.5 Specific target organ toxicity - single exposure</b>	No data available
<b>11.6 Specific target organ toxicity - repeated exposure</b>	No data available

**Safety Data Sheet****(-)-BLEBBISTATIN****EFFECTIVE DATE: 2014-09-24****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.

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**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.

**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

**Safety Data Sheet****(-)-BLEBBISTATIN****EFFECTIVE DATE: 2014-09-24****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)
(-)-Blebbistatin	856925-71-8	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
(-)-Blebbistatin	856925-71-8	No	No	No	No

**15.3 Regulatory information statement**

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

**15.4 WHMIS Classification**

D1B Toxic Material Causing Immediate and Serious Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

WHMIS compliant label available upon request

**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.

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