

L-ASCORBIC ACID EFFECTIVE DATE: 2015-08-27

## 1 Product and Company Identification

1.1 Product Name: L-Ascorbic Acid

**1.2 Catalog Number:** 72132

**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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

#### 2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards No data available

# 3 Composition / Information on Ingredients

**Synonyms** Vitamin C; (+)-Ascorbic Acid; NSC 218455; NSC 33832; (R)-5-

((S)-1,2-dihydroxyethyl)-3,4-dihydroxyfuran-2(5H)-one

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#
L-Ascorbic acid	50-81-7	100%	200-066-2

#### 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

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ous. Never give anything by mouth

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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.

# 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

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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.

# 8 Exposure Controls/Personal Protection

# 8.1 Exposure limits

Component	CAS#	Value	Control parameters
L-Ascorbic acid	50-81-7	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

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Odour threshold No data available рΗ No data available No data available Melting point/freezing point 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 No data available Vapour pressure Vapour density No data available No data available Relative density

Solubility ~3.3 mg/mL in PBS (pH 7.2); ~10 mg/mL in

DMSO; ~12.5 mg/mL in DMF

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
 10.4 Conditions to avoid
 10.5 Incompatible materials
 10.6 Hazardous decomposition products
 No data available
 No data available

11 Toxicological Information

11.1 Acute toxicity

Oral: Oral LD50 (rat): 11,900 mg/kg; Oral LD50 (mouse): 3367 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

Investigated as a mutagen.

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### 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

Investigated as a reproductive effector.

# 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.

## 11.12 Signs and symptoms of exposure

Investigated as a tumorigen.

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

been thoroughly investigated.

**11.13 RTECS #** C17650000

## 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 available12.3 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

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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

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# 15 Regulatory Information

#### 15.1 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)
L-Ascorbic acid	50-81-7	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
L-Ascorbic acid	50-81-7	No	No	Inventory	No

#### 15.3 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008.

# 15.4 Canada

Not WHMIS controlled

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: 1

**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.

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