



## Material Safety Data Sheet for 3-O-Ethyl Ascorbic Acid

### Section 1: Identification of substance

**Product name:** 3-O-Ethyl Ascorbic acid

**CAS#:** 86404-04-8

**UNII :** 6MW60CB71P

**Chemical formula:** C<sub>8</sub>H<sub>12</sub>O<sub>6</sub>

**Manufacturer/Supplier:**

Hubei Artec Biotechnology Co.,Ltd.

Leiyan Dadao, Leihe, Yicheng, Xiangyang, Hubei, 441400, China

[Http://www.artec.com](http://www.artec.com)

**E-mail:** [artec@artec.cc](mailto:artec@artec.cc)

**Tel.:** 86-710-4362973-8054

**Fax.:** 86-710-3125310

**Sales phone:** 86-710-3125319 3125180

### Section 2: Composition/Data on components

**Composition:** (R)-5-((S)-1,2-Dihydroxyethyl)-4-ethoxy-3-hydroxyfuran-2(5H)-one(CAS#: 86404-04-8): 100%

### Section 3: Hazards identification

**Material description:** White crystalline powder.

**Hazard description:**

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Information pertaining to particular dangers for man and environment:** Not available

### Section 4: First aid measures

**After inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Seek immediate medical advice.

**After skin contact:**

Flush skin with plenty of water while removing contaminated clothing and shoes.

Cold water may be used.

Get medical aid.

**After eye contact:**

Flush eyes with plenty of water occasionally lifting the upper and lower lids. Get medical aid.

**After ingestion:**

Do not vomit and feeding without advice from doctor.

If large quantities of this material are swallowed, call a physician immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.

### Section 5: Fire fighting measures

**Suitable extinguishing agents:**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released: Carbon monoxide and carbon dioxide.

**Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.



## Section 6: Accidental release measures

### **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

### **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

### **Measures for cleaning/collecting:**

Pick up mechanically.

### **Additional information:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7: Handling and storage

### **Handling:**

#### **Information for safe handling:**

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

No special precautions are necessary if used correctly.

#### **Information about protection against explosions and fires:**

Keep ignition sources away.

### **Storage:**

#### **Requirements to be met by storerooms and receptacles:**

No special requirements.

#### **Information about storage in one common storage facility:**

Store away from strong oxidizing agents.

#### **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

## Section 8: Exposure controls and personal protection

### **Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Components with limit values that require monitoring at the workplace:** Not required.

**Additional information:** No data.

### **Personal protection equipment:**

#### **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

**Protection of hands:** Check protective gloves prior to each use for their proper condition.

**Eye protection:** Safety glasses.

**Body protection:** Protective work clothing.

## Section 9: Physical and chemical properties

**General Information:** White crystalline powder.

**Odor:** Not available.

**Molecular weight:** 204.18 g/mole.

### **Change in condition:**

**Melting point/Melting range:** 110~115 °C at 760 mmHg

**Boiling point/Boiling range:** 551.5 °C at 760 mmHg

**Sublimation temperature / start:** Not available.

**pH (3% soln/water):** 3.5 ~ 5.5

**Specific rotation  $[\alpha]_{D^{20}}$ :** Not available.

**Ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Danger of explosion:** Product does not present an explosion hazard.

**Solubility:** Soluble in water.



### Section 10: Stability and reactivity

**Stability:**

The product is stable.

Materials to avoid: Strong oxidizing agents.

**Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

**Materials to be avoided:** Strong oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Polymerization:** Not available.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide.

### Section 11: Toxicological information

**Routes of entry:** Absorbed through skin, eye contact, inhalation, ingestion.

**Toxicity to animals:** Not available.

**Chronic exposure - reproductive hazard:** Not available.

**Chronic effects on humans:** Not available.

**Special remarks on toxicity to animals:** Not available.

**Special remarks on Chronic effects on humans:** Not available.

**Special remarks on other toxic effects on humans:** Not available.

**Additional toxicological information:**

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

### Section 12: Ecological information

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

**Toxicity of the products of biodegradation:**

The product itself and its products of degradation are not toxic.

**Special remarks on the products of biodegradation:** Not available.

### Section 13: Disposal considerations

**Product:**

**Recommendation:** Disposal must be allowed of official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### Section 14: Transport information

**General notes:** Not a hazardous material for transportation.

### Section 15: Regulations

**Product related hazard informations:** Observe the general safety regulations when handling chemicals.

**National regulations:** The national regulations of this product are not available in all countries.

**Information about limitation of use:** For use only by technically qualified individuals.

### Section 16: Other information

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Any other information please consult Hubei Artec Biotechnology Co., Ltd.