

济南康成医药科技有限公司  
Jinan Kangcheng Pharmaceutical Technology Co.,Ltd.

Add:700 Shunfeng Road,Jinan Area,China(Shandong)Pilot Free Trade Zone,China.

Email:kc\_sunlili@163.com Tel:0086-13165310761

# SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition.

Version::1.0

Creation Date:April 04, 2021

Revision Date:April 04, 2021

## 1.Chemical product and Company Identification

### 1.1 GHS Product identifier

Product Name: 3-O-Ethyl Ascorbic Acid

Chemical Name:

### 1.2 Other means of identification

Product Number:

Other Names: (2R)-2-[(1S)-1,2-dihydroxyethyl]-3-ethoxy-4-hydroxy-2H-furan-5-one

CAS No.: 86404-04-8

### 1.3 Recommended use of the chemical and restrictions on use:

Identified uses:For industry use only.

Uses advised against: no data available.

### 1.4 Supplier's details

Company Name:Jinan Kangcheng Phamarcuetical Technology Co.Ltd.

Address: 700 Shunfeng Road,Jinan Area,China(Shandong)Pilot Free Trade Zone,China.

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### 1.5 Emergency phone number

Emergency phone number:+86-13165310761

Service hours: Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

GHS: Eye irritation, Category 2

### 2.2 GHS label elements, including precautionary statements

Pictogram(s):



Signal word: Warning

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Hazard statement(s): H319 Causes serious eye irritation

Precautionary statement(s):

Prevention:

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: P337+P313 If eye irritation persists: Get medical advice/attention.

Disposal: no data available

### 2.3 Other hazards which do not result in classification

No data available.

## 3. Composition/information on ingredients

Chemical Name: 3-O-Ethyl Ascorbic Acid

Formula : C<sub>8</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight :204.18

Common names and synonyms	CAS No.	INECS	Concentration
NMN zwitterion	86404-04-8	N/A	100%

## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

No data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

## 5. Fire-fighting measures

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### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Specific hazards arising from the chemical**

No data available

### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational Exposure limit values**

No data available

#### **Biological limit values**

No data available

### **8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3 Individual protection measures, such as personal protective equipment (PPE)**

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### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

### Respiratory protection

Wear dust mask when handling large quantities.

### Thermal hazards

No data available

## 9. Physical and chemical propoties

<b>Physical state</b>	No data available
<b>Colour</b>	No data available
<b>Odour</b>	No data available
<b>Melting point/ freezing point</b>	23°C(lit.)
<b>Boiling point or initial boiling point and boiling range</b>	88°C/6mmHg(lit.)
<b>Flammability</b>	No data available
<b>Lower and upper explosion limit / flammability limit</b>	No data available
<b>Flash point</b>	14°C(lit.)
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Ph</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Solubility</b>	No data available
<b>Partition coefficient n-octanol/water (log value)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Density and/or relative density</b>	1.46 g/cm <sup>3</sup>



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No data available.

**11.9 STOT-single exposure**

No data available.

**11.10 STOT-repeated exposure**

No data available.

**11.11 Aspiration hazard**

No data available.

## 12. Ecological information

**12.1 Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

**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 Disposal methods**

**Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. Transport information

**14.1 UN Number**

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ADR/RID: UN3261

IMDG: UN3261

IATA: UN3261

### 14.2 UN Proper Shipping Name

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

IATA: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### 14.4 Packing group, if applicable

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

### 14.6 Special precautions for user

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## 15. Regulatory information

### 15.1 Safety,health and environmental regulations specific for the product in quest

Chemical name	Common names and synonyms	CAS number	EC number
3-O-Ethyl Ascorbic Acid	3-O-Ethyl Ascorbic Acid	86404-04-8	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## 16. Other information

### 16.1 Information on revision

Creation Date April 04,2021

Revision Date April 04,2021

### 16.2 Abbreviations and acronyms

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CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### 16.3 References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:  
<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

**Disclaimer:** *The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*