

## Vitamin C (L-ascorbic acid), USP

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 14-Sep-2022  
Supersedes: 14-Oct-2021

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b> Vitamin C (L-ascorbic acid), USP	<b>Distributor:</b> MakingCosmetics.com Inc.
<b>Synonyms:</b>	<b>Address:</b> 10800 231 <sup>st</sup> Way NE
<b>INCI Name:</b> L-ascorbic acid	Redmond, WA 98053 (USA)
<b>CAS Number:</b> 50-81-7	<b>Phone / Fax:</b> 425-292-9502 / 425-292-9601
<b>Formula:</b> Not available	<b>Web:</b> <a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Product Form:</b> Powder	
<b>Product Use:</b> Cosmetic use	<b>Emergency Telephone Number:</b> 1-800-424-9300 (Chemtrec)

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Not classified												
<b>GHS Labeling:</b>	Not classified												
<b>GHS Hazard Pictograms:</b>	None												
<b>GHS Hazard Statements:</b>	None												
<b>GHS Precautionary Statements:</b>	None												
<b>Potential Health Hazards:</b>	Eyes: No known hazard. Inhalation: May cause irritation of the respiratory tract. Skin: No known hazard. Ingestion: May cause gastrointestinal irritation.												
<b>NFPA Ratings (704):</b>	<table border="0"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td style="text-align: center;">1</td> <td style="padding-left: 20px;">Slight</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td style="text-align: center;">1</td> <td style="padding-left: 20px;">Slight</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td style="text-align: center;">0</td> <td style="padding-left: 20px;">Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td style="text-align: center;">n/a</td> <td></td> </tr> </table>	Health	1	Slight	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	n/a	
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Specific Hazard	n/a												

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
L-ascorbic acid	50-81-7	100%	176.12

### 4 FIRST AID MEASURES

<b>Eyes:</b>	In case of eye contact, rinse with plenty of water for 10 minutes-open eyelids forcibly and seek medical attention if necessary
<b>Inhalation:</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
<b>Skin:</b>	Remove contaminated clothes, wash affected skin with water and soap (do not use any solvents). Get medical attention if necessary.
<b>Ingestion:</b>	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	May be combustible at high temperature. Auto-ignition temperature 660°C (1220°F). Use appropriate media (Water spray jet, foam, carbon dioxide, dry chemical) for adjacent fire.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Precipitate gases/vapors/mists with water spray.
<b>Specific hazards arising from the chemical:</b>	These products are carbon oxides (CO, CO <sub>2</sub> ). As with most powdered organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Not available
<b>Methods and material for containment and cleaning up:</b>	Sweep up and place in suitable, closed containers for disposal. Avoid generation of dusts. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## 7 HANDLING & STORAGE

<b>Precautions for safe handling:</b>	Provide appropriate exhaust equipment where dust is generated. General fire protection measures. Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen) local exhaust ventilation necessary take precautionary measures against electrostatic charging avoid dust formation; high dust explosion hazard. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Store in cool, dry well ventilated area. Keep away from light and incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
L-ascorbic acid	Not available		

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

### Personal Protection:

<b>Eyes:</b>	Not required, but wear chemical safety glasses or goggles.
<b>Inhalation:</b>	Not needed under normal conditions of use.
<b>Body:</b>	Slip proof shoes may be worn where spills may occur
<b>Other:</b>	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Solid, powder	<b>Vapor Pressure:</b>	Not available
<b>Odor:</b>	Odorless	<b>Saponification Value:</b>	Not available
<b>Taste:</b>	Not available	<b>Iodine Value:</b>	Not available
<b>Color:</b>	White to pale yellow	<b>Flammability:</b>	Not available
<b>Molecular Weight:</b>	176.12	<b>Peroxide Value:</b>	Not available
<b>pH</b>	2.1-2.6 (5% solution)	<b>Flash Point:</b>	Not available
<b>Boiling Point (decomp. temp)</b>	Not available	<b>Solubility:</b>	20°C-completely dissolved
<b>Melting Point (decomp. temp)</b>	Not available	<b>Specific Gravity:</b>	Not available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Product is stable
<b>Chemical Stability:</b>	Stable at room temperature under exclusion of humidity.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Heat, humidity.
<b>Incompatible Materials:</b>	Oxidizing agents, atmospheric oxygen, bases, metals, metal salts.
<b>Hazardous Decomposition Products:</b>	No known
<b>Special Remarks:</b>	On prolonged storage, a yellow discoloration may occur through slow decomposition, which does not noticeably diminish biological activity, however in aqueous solutions ascorbic acid is very susceptible to oxidative decomposition, particularly in the presence of alkali resp. heavy metal ions.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	LD50 11'900 mg/kg (oral, rat)
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	LD50 8'000 mg/kg (oral, mouse)
	LD50 518 mg/kg (i.v., mouse)
<b>Skin:</b>	May cause mild irritations; particularly in conjunction with humidity (perspiration).
<b>Eyes:</b>	May cause mild irritations.
<b>Respiratory:</b>	May cause mild irritations to mucous membranes.
<b>Ingestion:</b>	Slightly hazardous in case of ingestion
<b>Carcinogenicity:</b>	Not carcinogenic.
<b>Teratogenicity:</b>	Not teratogenic.
<b>Germ Cell Mutagenicity:</b>	No suspicion of human mutagenicity.
<b>Embryotoxicity:</b>	Not available
<b>Chronic Toxicity:</b>	In predisposed individuals 4-12g/d may cause urinary calculus.
<b>Specific Target Organ Toxicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not embryotoxic.
<b>Special Remarks:</b>	Oral uptake of up to 9g per day does not produce any Serious toxic effects, however, even lesser quantities may cause diarrhea. RDA (recommended daily allowance): 60mg.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Aquatic Vertebrate:</b>	Barely toxic for fish (rainbow trout) LC50 (96h) 1020mg/l (OECD No.203)
<b>Aquatic Invertebrate:</b>	The inhibitory concentration relates to re-attachment to substrate (Dreissena polymorpha) MIC(48h)>50mg/l (nominal concentration)
<b>Persistence and Degradability:</b>	Well inherently biodegradable 97%, 5d 100%, 15d (Zahn-Wellenstest, OECD No. 302B).
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available
<b>PBT and vPvB Assessment:</b>	Not available
<b>Other Adverse Effects:</b>	Not available

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. Large amounts: incinerate in qualified installation with flue gas scrubbing
<b>Product Containers:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
	The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>Note:</b>	Not regulated or classified by transport regulations.
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## 15 REGULATORY INFORMATION

<b>Note:</b>	Not regulated or classified by transport regulations.
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## 16 OTHER INFORMATION

<b>Revision Date:</b>	14-Sep-2022
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.