



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Ascorbic Acid

Substance name : Ascorbic Acid

CAS-No. : 50-81-7

Chemical Formula : C₆H₈O₆

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Chemical substance

1.3 Details of the supplier of the safety data sheet

Company : CCEU Sp. z o.o.
ul. Ostatnia 45
PL 60-102 Poznan

Telephone : +48 888 666 474

E-mail address of person responsible for the SDS : reach@cristalchem.com



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

1.4 Emergency telephone number

Poisons Control Centre Krakow
Emergency telephone number : +48 12 411 99 99

Section 2: Composition and Information on Ingredients

MSDS Name : Ascorbic acid
Synonym : Vitamin C, L-Ascorbic acid
Chemical Name : (5R)-5-[(1S)-1,2-dihydroxyethyl]-
3,4-dihydrofuran-2 (5H)-one
CAS No. : 50-81-7
Content : 100% (Ascorbic acid)
Hazard Symbols : None Listed.
Risk Phrases : None Listed.

Section 3: Hazards Identification

Invasive Pathway : Inhalation, ingestion and skin
Health Hazards : No information found.
Environment Hazards : No information found.
Explosive Hazards : Flammable.

SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 4: First Aid Measures

Eyes	: Immediately lift the upper and lower eyelids eyelid up, flush eyes with plenty of running water. Get medical aid.
Skin	: Flush skin with plenty of water while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion	: If large amounts are swallowed, get medical aid immediately.
Inhalation	: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.

Section 5: Fire and Explosion Data

General Information	: Flammable. Fire is possible at elevated temperatures or by contact with an ignition source.
Extinguisher	: Dry powder, foam and water spray.
Extinguishing Note	: Don't stay in a danger area unless the chemical safeguard and oxygen supply equipment are prepared, avoiding the chemicals into the surface water and ground water.



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 6: Accidental Release Measures

Personal Protection

: Don't inhale the steam. Use proper personal protective equipment as indicated in **SECTION 8**.

Environmental Protection

: The chemicals are not allowed to charge into the drainage system without disposal.

Cleaning

: Collect and reclaim the leaking-Materials with secure method or transport to a disposal site to further dispose. Then clean the contaminated area.

Section 7: Handling and Storage

Handling

: Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use adequate ventilation.

Storage

: Keep in a tightly closed container, store in a cool, dry, ventilated place. Store protected from light and incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 8: Exposure Controls/Personal Protection

Engineering Controls

: Use adequate ventilation to keep airborne concentrations low. Immediately change the contaminated clothing. Daub the skin with cream. Wash the face and hands after work. Don't inhale its steam.

Exposure Limits

: No information found.

Personal Protective Equipment

Eyes

: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin

: Wear appropriate protective gloves to prevent skin exposure.

Clothing

: Wear appropriate protective clothing to prevent skin exposure.

Respirators

: Wear appropriate protective dustproof respirator to prevent inhalation.

Others

: No smoking at the work site. Pay attention to personal sanitation. Avoid contacting repeatedly and constantly.

SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 9: Physical and Chemical Properties

Physical State	: Solid
Color	: White or almost white
Odor	: Odorless
PH	: 2.2~2.5 (50 g/L H ₂ O, 20°C)
Melting Point	: 190~192°C (with decomposition)
Boiling Point	: Not available
Flash Point	: Not available
Ignition Temperature	: 380°C
Explosion Limits (lower)	: Not available.
Explosion Limits (upper)	: Not available.
Solubility	: Freely soluble in water (330g/L, 24°C), soluble in ethanol (96%) (20g/L, 20°C)
Density	: 1.65 g/cm ³
Apparent Density	: 500~900 kg/m ³
Molecular Formula	: C ₆ H ₈ O ₆
Molecular Weight	: 176.1
Specific Optical Rotation	: +20.5° ~ +21.5°
Other Properties	: Becoming discolored on exposure to air and moisture.



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 10: Stability and Reactivity Data

Chemical Stability	: Stable under ordinary conditions of use and storage. Aqueous solutions are rapidly oxidized by air.
Conditions to Avoid	: Heat and light.
Incompatibilities with Other Materials	: Metals, especially the copper, iron, aluminum and zinc. Oxidant, becoming discolored on exposed to air and moisture.
Hazardous Decomposition Products	: May produce acrid smoke and irritating fumes when heated to decomposition.
Hazardous Polymerization	: Will not occur.

Section 11: Toxicological Information

Emergency Toxicity	: Oral: LD50: 11900 mg/kg (Rat). Investigated as a tumorigen, mutagen, and reproductive effector.
Skin Irritative Test	: No irritating (Rabbit).
Eye Irritative Test	: Slightly irritating (Rabbit).
Other	: Be careful when dispose the product.



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Section 12: Ecological Information

Ecological Toxicity	: Fish: Onchorhynchus mykiss LC50: 1020mg/L/96 h acid; L.idus LC50: 33000 mg/L/48 h.
Biological Degradation	: Degradation, will not affect the disposal of waste water if in a suitable disposal.
Biological Enrichment or Accumulation	: Not occur.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Not regulated

Section 15: Other Regulatory Information

Not regulated

Section 16: Other Information

Label Hazard Warning	: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.
-----------------------------	--



SAFETY DATA SHEET

Ascorbic acid

Version	Revision Date:	SDS Number	Date of last issue: -
1.0	01.02.2021	300000017069	Date of first issue: 01.02.2021

Label First Aid : Not applicable.

Product Use : Laboratory Reagent.

The above information is believed to be correct but does not support 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. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. It does not represent any guarantee of the properties of the product. CCEU Sp. z o.o. shall not be held liable for any damage resulting from handling or from contact with the above product.

