SDS (Safety Data Sheet)
L-ascorbic acid (Vitamin C)

ASESCHEM
SINCE 1942

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Vitamin C (L-ascorbic acid), USP	Supplier:	Ases Chemical Works
INCI Name:	L-ascorbic acid	Address:	Brahm Bagh, Jalori Gate Jodhpur-342001 (India)
CAS Number:	50-81-7		
Formula:	Not available	Phone:	+91-291-2635041, Whats App : 9636889954
Product Form:	Powder	Web:	www.ases.in
Product Use:	Cosmetic use	E-mail:	ecom@ases.in

2 HAZARDS IDENTIFICATION

GHS: Not classified

Potential Health Hazards: Inhalation: May cause irritation of the respiratory tract.
Ingestion: May cause gastrointestinal irritation.

NFPA Ratings (704):

Health	1	Slight
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	n/a	

3 COMPOSITION/INFORMATION ON INGREDIENTS

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

4 FIRST AID MEASURES

Eyes:	In case of eye contact, rinse with plenty of water for 10 minutes-open eyelids forcibly and seek medical attention if necessary
Inhalation:	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.
Skin:	Remove contaminated clothes, wash affected skin with water and soap . Get medical attention if necessary.
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	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.
Special protective equipment & precautions for firefighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Precipitate gases/vapors/mists with water spray.
Specific hazards arising from the chemical:	These products are carbon oxides (CO, CO2). As with most powdered organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: See section 8 for the use of personal protective equipment.

Environmental precautions : Not available

Methods and material for containment and cleaning up: 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

Precautions for safe handling:	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.
Conditions for safe storage, incl. any incompatibilities:	Store in cool, dry well ventilated area. Keep away from light and incompatible materials

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Compo nent	Ex posure Limits	Basis	Entity
L-ascorbic acid	Not available		

Personal Protection:

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

9 PHYSICAL AND CHEMICAL PROPERTIES

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

10 STABILITY AND REACTIVITY

Reactivity:	Product is stable
Chemical Stability:	Stable at room temperature under exclusion of humidity.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Heat, humidity.
Incompatible Materials:	Oxidizing agents, atmospheric oxygen, bases, metals, metal salts.
Hazardous Decomposition Products:	No known
Special Remarks:	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 respectively heavy metal ions.

11 TOXICOLOGICAL INFORMATION

Skin:	May cause mild irritations; particularly in conjunction with humidity (perspiration).
Eyes:	May cause mild irritations.
Respiratory:	May cause mild irritations to mucous membranes.
Ingestion:	Slightly hazardous in case of ingestion
Carcinogenicity:	Not carcinogenic.
Teratogenicity:	Not teratogenic.
Germ Cell Mutagenicity:	No suspicion of human mutagenicity.
Chronic Toxicity:	In predisposed individuals 4-12g/d may cause urinary calculus.
Reproductive Toxicity:	Not embryotoxic.
Special Remarks :	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

Ecotoxicity

Aquatic Vertebrate:	Barely toxic for fish (rainbow trout) LC50 (96h) 1020mg/l (OECD No.203)
Aquatic Invertebrate:	The inhibitory concentration relates to re-attachment to substrate (Dreissena polymorpha) MIC(48h)>50mg/l (nominal concentration)
Persistence and Degradability:	Well inherently biodegradable9 7%,5d 100%,15d (Zahn-Wellenstest, OECD No. 302B).

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations or consult with appropriate regulatory agencies for disposing . Large amounts: incinerate in qualified installation with flue gas scrubbing
Product Containers:	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 .

14 TRANSPORT INFORMATION

Note: Not regulated or classified by transport regulations.

15 REGULATORY INFORMATION

Note: Not regulated or classified by transport regulations.

16 OTHER INFORMATION

Disclaimer: 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 suitableness & completeness of such information for his own particular use.