

**SAFETY DATA SHEET****ASCORBIC ACID (VITAMIN C)**

CAS No.: 50-81-7

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Ascorbic Acid (Vitamin C)
CAS Number	50-81-7
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word Not classified

HAZARD CLASSIFICATION

None assigned

HAZARD STATEMENTS

None assigned

PRECAUTIONARY STATEMENTS

None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Ascorbic Acid (Vitamin C)
CAS Number	50-81-7
Physical State	Solid (crystalline powder)
Appearance / Odour	White to light-yellow crystalline powder, odorless, with an acidic taste.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; seek medical attention if irritation persists.
Skin Contact	Wash with plenty of soap and water; remove contaminated clothing.
Inhalation	Move to fresh air; if dust has been inhaled and irritation occurs, seek medical attention.
Ingestion	Rinse mouth with water; generally regarded as non-toxic at normal exposure; seek medical advice if large amounts are ingested and discomfort occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical, foam.
Unsuitable Extinguishing Media	Avoid dispersing fine dust with high-pressure air/water, which could create a combustible dust cloud.
Special Hazards	Fine powder may form combustible dust concentrations in air; combustion produces carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Measures	Avoid generating dust; sweep/vacuum and collect in containers for disposal or recovery; wash residual area with water.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid generating dust; use local exhaust ventilation; avoid eye contact; keep away from strong oxidizers and light/moisture during bulk handling.
Storage Conditions	Store in tightly closed, light-resistant containers in a cool, dry place away from oxidizing agents; protect from moisture and light to prevent gradual degradation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific OEL established; treat as nuisance dust (general guideline ~10 mg/m ³ TWA); use dust mask, safety glasses, and gloves during bulk handling.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid (crystalline powder)
Appearance / Odour	White to light-yellow crystalline powder, odorless, with an acidic taste.
Boiling Point	Not applicable (decomposes before boiling)
Melting Point	Approximately 190-192 C (decomposes)
Flash Point	Not applicable (non-flammable solid)
Density / Specific Gravity	Approximately 1.65
Water Solubility	Freely soluble, approximately 330 g/L at 20 C
pH Value	Approximately 2.1-2.6 (5% aqueous solution)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; sensitive to light, heat, moisture, and oxidizing conditions (gradual oxidative degradation).
Incompatible Materials	Strong oxidizing agents, strong bases, iron and copper salts (catalyze oxidative degradation).
Hazardous Decomposition	Thermal decomposition produces carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Summary	Very low acute toxicity (rat oral LD50 approximately 11,900 mg/kg); an essential dietary nutrient (Vitamin C); not classified as an irritant, sensitizer, mutagen, or carcinogen; fine dust may cause mild, transient irritation to eyes/respiratory tract.
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12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable; low toxicity to aquatic organisms; not expected to bioaccumulate.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local/national regulations; biodegradable material suitable for conventional waste treatment where permitted.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Approved food additive/nutrient (antioxidant, E300) and dietary supplement ingredient under Codex Alimentarius, US FDA (GRAS), USP/EP pharmacopoeial grades, and EU food regulations; not classified as hazardous under GHS.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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