
Safety Data Sheet

Product Name	L (+) Ascorbic Acid
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** L (+) Ascorbic Acid**Synonyms:** Vitamin C**CAS-No:** 50-81-7**EC-No.:** 200-066-2**Molecular Formula:** C₆H₈O₆

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture and uses advised against:**Recommended Use:** Reagent for analysis**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.
Web: www.finarchemicals.com
- **E-Mail Address** safety.finar@aceto.com; info.finar@aceto.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:**Labeling according Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

None Known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances: L (+) Ascorbic Acid****3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
L (+) Ascorbic Acid	50-81-7	200-066-2	>95%

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:**

- **General advice**

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

- **If inhaled**

Fresh air.

- **In case of skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

- **In case of eye contact**

Rinse out with plenty of water. Remove contact lenses.

- **If swallowed**

Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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4.2. Most important symptoms and effects, both acute and delayed:

We have no description of any symptoms of toxicity.

4.3. Indication of any immediate medical attention and special treatment needed:

No Data Available.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media:**

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

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Combustible.

Risk of dust explosion.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters:

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: For personal protection see section 8.

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation

7.2. Conditions for safe storage, including any incompatibilities:

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Protect from direct sunlight. Store under an inert atmosphere.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Contains no substances with occupational exposure limit values.

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

- **Personal Protective Equipment:**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection-

Safety Goggles

Respiratory Protection-

Required when dusts are generated.

Environmental Exposure Controls-

Do not let product enter drains.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties:**

- **Physical State:** Solid
 - **Appearance:** White
 - **Odor:** Odorless
 - **pH:** 2.2 - 2.5 at 50g/l 20°C
 - **Melting Point:** 190 °C - 192 °C
 - **Ignition Temperature:** 380°C
 - **Vapor Pressure:** No data available
 - **Vapor Density:** No data available
 - **Volatility:** No data available
 - **Bulk Density:** ca.500 - 900 kg/m³
 - **Odor Threshold:** No data available
 - **Viscosity, dynamic:** at 20°C Not applicable
 - **Water/Oil Dist. Co eff.:** No data available
 - **Ionicity (in Water):** No data available
 - **Partition Coefficient n-octanol/water:** log Pow: -2.15
(Lit.) Bioaccumulation is not expected.
 - **Relative Density:** No data available
 - **Boiling Point/Range:** No data available
 - **Decomposition Temperature:** >192°C
 - **Flash Point:** No data available
 - **Density:** 1.65 g/cm³ at 20°C
 - **Molecular Weight:** 176.13 g/mol
 - **Solubility:** 330 g/l at 24°C
- 9.2. Other information:**
- **Molecular Formula:** C₆H₈O₆

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SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity:**

Reducing agents.

Risk of dust explosion.

10.2. Chemical stability:

Sensitive to moisture

Sensitivity to light

Sensitive to air.

10.3. Possibility of hazardous reactions:

Violent reactions possible with:

Aluminium, Copper alloys, Zinc, metal ions, Oxidizing agents, Copper, Acids, bases

10.4. Conditions to avoid:

Strong heating (decomposition).

10.5. Incompatible materials:

No data available

10.6. Hazardous decomposition products:

No data available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:****Acute Oral toxicity**

LD50 Rat: 11,900 mg/kg

(RTECS)

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin corrosion/irritation

Skin – Rabbit

Result: No Irritation

OECD Test Guideline 404

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Serious eye damage/eye irritation

Rabbit

Result: slight irritation

OECD Test Guideline 405

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information:

Substances which occur in nature

Chronic uptake results in damage of: Kidney

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:****Toxicity to fish**LC50 *Oncorhynchus mykiss* (rainbow trout): 1.020 mg/l; 96 h

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebratesEC50 *Daphnia magna* (Water flea): 360 mg/l; 48 h

(External MSDS)

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Toxicity to algaeIC50 *Desmodesmus subspicatus* (green algae): 1,750 mg/l; 72 h

(External MSDS)

Toxicity to bacteriaEC50 *Pseudomonas putida*: 140 mg/l; 16 h

(External MSDS)

12.2 Persistence and degradability:

Biodegradability

97 %; 5 d

OECD Test Guideline 302B

Readily eliminated from water

Ratio BOD/ThBOD

BOD5 48 %

Closed Bottle test

12.3 Bioaccumulate potential:

Partition coefficient: n-octanol/water

log Pow: -2.15

(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects:

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations**13.1 Waste treatment methods:**

Waste material must be disposed of in accordance with the national and local regulations.

Leave chemicals in original containers. No mixing with other waste.

Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No Data Available		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National legislation

Storage class 10-13

Dust explosion class St1

15.2 Chemical safety assessment:

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

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SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

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