

Product Name	(+) - Sodium L -ascorbate
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: (+) - Sodium L -ascorbate

Synonyms: L-Ascorbic acid sodium salt, Vitamin C sodium salt

CAS-No: 134-03-2

EC-No.: 205-126-1

Molecular Formula: $C_6H_7NaO_6$

REACH Registration No: A registration number is not available for this substance as the substance or its uses are exempted from registration, 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: Laboratory chemicals and Manufacture of substances, Used as an excipient and a biopharma ingredient

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@actylis.com; info.finar@actylis.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:

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

2.2. Label Elements:

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

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: (+) - Sodium L -ascorbate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
(+) - Sodium L -ascorbate	134-03-2	205-126-1	99

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- If inhaled**

After inhalation: fresh air.

- If Contact with skin**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

- In case of eye contact**

After eye contact: rinse out with plenty of water. Remove contact lenses.

- If swallowed**

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

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

5.2. Special hazards arising from the substance or mixture:

Carbon oxides, Sodium oxides

Combustible.

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

Risk of dust explosion.

5.3. Advice for firefighters:

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

5.4 Further Information:

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.

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.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

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

7.2. Conditions for safe storage, including any incompatibilities:

Storage conditions

Light sensitive.

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Keep in a dry and well-ventilated place. Keep container tightly closed. Incompatible Materials.
Strong oxidizing agents.

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:

Ingredients with workplace control parameters

8.2. Exposure Controls:

Personal Protective Equipment:

- Eye & Face Protection-

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

- Respiratory Protection-

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

- Environmental Exposure Controls-

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** Light Yellow Crystalline
- **Physical State:** Powder
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 6.0 - 7.5
- **Melting Point:** 219 °C - 221 °C
- **Critical Temperature:** No data available.
- **Vapor Pressure:** No data available

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- **Relative Density:** 1.88 at 19.7 °C - OECD Test Guideline 109
- **Specific Gravity / Density:** No data available
- **Auto-Ignition Temperature:** No data available
- **Decomposition Temperature:** 232 °C
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Water Solubility:** Soluble in water

9.2. Other information:

- **Molecular Formula:** C₆H₇NaO₆
- **Molecular Weight:** 198.11 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions:

Violent reactions possible with: Oxidizing agents

10.4. Conditions to avoid:

Exposure to light. Incompatible products. Exposure to moisture.

10.5. Incompatible materials:

Strong oxidizing agents

10.6. Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO₂)

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In the event of fire : See section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity

LD50 Oral - Rat - 11.900 mg/kg

Remarks: (calculated on the free acid) (RTECS)

Skin irritation

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: ascorbic acid

Eye irritation

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: ascorbic acid

Sensitisation

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

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Aspiration hazard

No data available

11.2 Further Information:

RTECS: CI7671000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

This substance is an essential part of the human diet.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:****Toxicity to fish**

Static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1.020 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Semi-static test EC50 - Daphnia magna (Water flea) - 74 mg/l - 48 h
(OECD Test Guideline 202)

Toxicity to algae

Static test ErC50 - Pseudokirchneriella subcapitata - > 74 mg/l - 72 h
(OECD Test Guideline 201)

12.2 Persistence and degradability:

Biodegradability aerobic - Exposure time 28 d Result: > 99 % - Readily biodegradable.
(OECD Test Guideline 301A)

12.3 Bioaccumulate potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

No data available

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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous

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waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

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

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the : Not applicable

European Parliament and of the Council on the
control of major-accident hazards involving dangerous substances.

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

Created: 16/02/2022

Updated on: 22/09/2023

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