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| Product Name | Sorbic Acid |
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Sorbic Acid

Synonyms: 2,4-Hexadienoic acid

CAS-No: 110-44-1

EC-No.: 203-768-7

Molecular Formula: C₆H₈O₂

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: Pharmaceutical production, Reagent for development and research,
Cosmetic raw material, used as a pharma excipient

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:

Classification according to Regulation (EC) No 1272/2008

Eye irritation, Category 2, H319

Specific target organ toxicity- single exposure, Category 3, Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label Elements:

Labeling according Regulation (EC) No 1272/2008

Pictogram



Signal Word: **Warning**

Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (≤ 125 ml)

Pictogram



Signal Word: **Warning**

2.3. Other Hazards:

None Known

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Sorbic Acid

3.2. Mixtures:

| Component | CAS-No | EC-No. | Weight % |
|-------------|----------|-----------|----------|
| Sorbic Acid | 110-44-1 | 203-768-7 | >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. Call in ophthalmologist. Remove contact lenses.

- **If swallowed**

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

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

irritant effects, Cough, Shortness of breath

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 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 firefighters

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.

Ensure adequate ventilation. 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.

6.4. Reference to other sections:

For disposal see Sections 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

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

- **Hand Protection: -**

Full contact

Material : Nitrile rubber

Minimum layer thickness : 0.11 mm

Break through time : 480 min.

Splash contact

Material : Nitrile rubber

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Minimum layer thickness : 0.11 mm

Break through time : 480 min

- **Other Protective Equipment-**

Protective clothing

- **Respiratory Protection-**

Required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

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:

- **Physical State:** Solid
- **Appearance:** White
- **Odor:** slight
- **pH:** ca. 3.3 at 1.6 g/l 20°C
- **Melting Point:** 132°C - 135 °C
- **Ignition Temperature:** >130°C
- **Vapor Pressure:** 0.00018 hPa at 20°C Method: OECD Test Guideline 104
- **Relative Vapor Density:** 3.87
- **Volatility:** No data available
- **Bulk Density:** ca.650 kg/m³
- **Auto-Ignition Temperature:** 415 °C
- **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: 1.32 (25°C) OECD Test Guideline 117
(Lit.) Bioaccumulation is not expected.
- **Relative Density:** No data available

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- **Boiling Point/Range:** No data available
- **Decomposition Temperature:** >170°C
- **Specific Gravity:** 1.2
- **Flash Point:** 127 °C
- **Density:** 1.2 g/cm³ at 20 °C Method: OECD Test Guideline 109
- **Molecular Weight:** 112.13 g/mol
- **Solubility:** 1.6 g/l at 20 °C Method: OECD Test Guideline 105

9.2. Other information:

Molecular Formula: C₆H₈O₂

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Risk of dust explosion.

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:

Strong Oxidizing agents, bases

10.4. Conditions to avoid:

No data available

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: 7360 mg/kg

(RTECS)

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Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:

damage of respiratory tract

Acute dermal toxicity

LD50 Rat: > 2,000 mg/kg

OECD Test Guideline 402

(External MSDS)

Skin corrosion/irritation

Skin – Rabbit

Result: No Irritation

OECD Test Guideline 404

Serious eye damage/eye irritation

Rabbit

Result: Eye irritation

OECD Test Guideline 405

Respiratory or skin sensitization

Sensitisation test: Guinea pig

Result: negative

(IUCLID)

Sensitisation possible in predisposed persons.

Germ cell mutagenicity

Genotoxicity in vivo

Mutagenicity (mammal cell test): micronucleus.

Result: negative

Method: OECD Test Guideline 474

Genotoxicity in vitro

Ames test

Result: negative

(IUCLID)

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

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No data available

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information:

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish

LC50 Danio rerio (zebra fish): 1,250 mg/l; 96 h

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 Daphnia magna (Water flea): 70 mg/l; 48 h

Analytical monitoring: yes

OECD Test Guideline 202

Toxicity to algae

Static test NOEC Pseudokirchneriella subcapitata (green algae): 56 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Static test EC50 Pseudokirchneriella subcapitata (green algae): 41.9 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Toxicity to bacteria

Static test EC50 activated sludge: > 100 mg/l; 3 h

OECD Test Guideline 209

12.2 Persistence and degradability:

Biodegradability

74.9 %; 28 d, aerobic

OECD Test Guideline 301D

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Readily Biodegradable

12.3 Bioaccumulate potential:

Partition coefficient: n-octanol/water

log Pow: 1.32 (25 Celsius)

OECD Test Guideline 117

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

Surface tension: 53.5 mN/m at 20 °C

Method: OECD Test Guideline 115

Additional ecological information

Biological effects: Harmful effect due to pH shift.

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.

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. | | |

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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

15.2 Chemical safety assessment

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

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Training advice

Provide adequate information, instruction and training for operators.

Pictogram**Signal Word:** Warning

Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

References: Not available**Created:** 30/07/2021**Updated On:** 30/09/2023

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