

# Succinic Acid MSDS

## 1. Product Name and Identification

**Product Name:** [Succinic Acid](#)

**Synonyms:** Butanedioic Acid, Amber Acid

**Chemical Formula:** C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>

**CAS Number:** 110-15-6

**Recommended Use:** Intermediate for industrial processes, food additive, manufacturing of polymers and resins

**Manufacturer/Supplier Contact Information:**

- Address: [Insert specific address]
  - Emergency Phone Number: [Insert appropriate phone number]
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## 2. Composition/Ingredients

**Chemical Composition:**

- **Substance Name:** Succinic Acid
  - **Concentration:** ≥99%
  - **CAS Number:** 110-15-6
  - **Additional Information:** No additives or impurities classified as hazardous by regulatory guidelines.
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## 3. Hazards Identification

**Hazard Classification:**

- Serious eye irritation (Category 2A)
- Skin irritation (Category 2)

**GHS Label Elements:**

- **Pictograms:**  
![Exclamation Mark]
- **Signal Word:** Warning
- **Hazard Statements:**
  - H319 Causes serious eye irritation.
  - H315 Causes skin irritation.

- **Precautionary Statements:**
    - Wash hands and exposed areas thoroughly after handling.
    - Wear protective gloves and eye/face protection.
    - If skin or eye irritation occurs, seek medical advice.
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## 4. First Aid Measures

**General Advice:** Provide medical personnel with this SDS if exposure has occurred.

**Eye Contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

**Skin Contact:** Wash exposed skin with soap and water. Remove contaminated clothing. If irritation persists, consult a physician.

**Inhalation:** Remove the individual to fresh air. If symptoms persist, seek medical attention.

**Ingestion:** Rinse mouth thoroughly with water. If the individual feels unwell, seek medical attention.

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## 5. Handling and Storage

### Handling:

- Avoid direct contact with the skin, eyes, and clothing.
- Minimize dust generation. Use in well-ventilated areas.
- Wash hands thoroughly after handling.

### Storage:

- Store in a cool, dry, and well-ventilated area.
  - Keep containers tightly closed when not in use.
  - Avoid exposure to moisture and incompatible substances such as strong oxidizers.
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## 6. Exposure Controls/Personal Protection

**Exposure Limits:** No specific occupational exposure limits established.

### Engineering Controls:

- Use local exhaust or ventilation systems to minimize dust accumulation in the air.

### **Personal Protective Equipment (PPE):**

- **Eye Protection:** Safety goggles or face shield to avoid contact with the eyes.
  - **Skin Protection:** Chemical-resistant gloves (e.g., nitrile). Long-sleeved clothing is recommended.
  - **Respiratory Protection:** NIOSH-approved respirator for dust exposure.
  - **Hygiene Measures:** Practice good hygiene by thoroughly washing exposed areas after handling the material.
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## **7. Physical and Chemical Properties**

- **Appearance:** White crystalline solid
  - **Odor:** Odorless
  - **Odor Threshold:** Not applicable
  - **pH:** 2.7 (0.1 M solution at 25°C)
  - **Melting Point/Freezing Point:** 185–187°C (365–369°F)
  - **Boiling Point:** Decomposes before boiling
  - **Flash Point:** Not flammable
  - **Flammability:** Not applicable
  - **Vapor Pressure:** Negligible
  - **Vapor Density:** Not applicable
  - **Relative Density:** 1.57 g/cm<sup>3</sup> at 25°C
  - **Solubility in Water:** 5.8 g/100 mL at 25°C
  - **Partition Coefficient (n-octanol/water):** -0.59
  - **Auto-Ignition Temperature:** Not applicable
  - **Decomposition Temperature:** >185°C
  - **Viscosity:** Not applicable
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## **8. Stability and Reactivity**

**Stability:** Stable under normal conditions of use and storage.

**Hazardous Reactions:** May react with strong oxidizing agents, causing decomposition or combustion.

**Conditions to Avoid:** Excessive heat, open flames, and moisture.

**Materials to Avoid:** Strong bases, oxidizing agents, and strong acids.

**Hazardous Decomposition Products:** Thermal decomposition may produce carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO).

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## 9. Toxicological Information

**Acute Toxicity:**

- **Oral LD50 (Rat):** 2,070 mg/kg (moderate toxicity)

**Skin Corrosion/Irritation:** Can cause irritation to prolonged or repeated exposure.

**Eye Irritation:** Causes serious eye irritation.

**Respiratory Sensitization:** Dust may irritate the respiratory tract upon inhalation.

**Carcinogenicity:** Not classified as carcinogenic per IARC, NTP, or OSHA.

**Other Information:** Prolonged exposure to high concentrations of dust may irritate the mucous membranes.

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## 10. Disposal Considerations

**Waste Management:** Dispose of unused material in accordance with local, state, and federal regulations.

**Recommendation:** Do not discharge into drains, sewers, or waterways. Contact a licensed waste contractor for disposal.

**Packaging:** Do not reuse containers. Dispose of empty containers adhering to applicable regulations.

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