Sebacic Acid MSDS

1. Product Name and Identification

Product Name: Sebacic Acid
Synonyms: Decanedioic acid, 1,8-Octanedicarboxylic acid
CAS Number: 111-20-6
Chemical Formula: C10H18O4
Manufacturer/Distributor Contact Information:
(Address and emergency phone number should be filled by the specific supplier)

2. Composition/Ingredients

Substance: Pure substance
Chemical Name: Sebacic Acid
Concentration: 100%
CAS Number: 111-20-6
No hazardous impurities or additives detected in the composition.

3. Hazards Identification

Classification

- **GHS Classification**: Not classified as hazardous under GHS criteria.
- **Health Hazards**: May cause irritation to skin, eyes, or respiratory tract through prolonged or excessive exposure.
- **Environmental Hazards**: Not classified as a significant hazard to the environment.

Label Elements

- **Symbol**: None required
- **Signal Word**: None
- **Hazard Statement**: May cause mild irritation upon contact or inhalation.
- **Precautionary Statement**: Avoid excessive contact with skin, eyes, and clothing. Prevent inhalation of fine particles.

4. First Aid Measures

General Advice
If symptoms occur or persist, seek medical attention.

- **Eyes**: Rinse thoroughly with clean water for at least 15 minutes. Remove contact lenses if applicable.

- **Skin**: Wash affected area with soap and water. Remove contaminated clothing.
- **Inhalation**: Move to fresh air. If breathing problems develop, seek medical help immediately.
- **Ingestion**: Rinse mouth with water. Do not induce vomiting. Obtain medical attention if symptoms arise.

5. Handling and Storage

Handling

- Use in a well-ventilated area to avoid accumulation of fine particles or dust.
- Wear appropriate protective equipment to minimize direct contact.
- Avoid ingestion, inhalation, or direct skin contact.

Storage

- Store in a dry, cool, and well-ventilated area.
- Keep container tightly closed when not in use.
- Avoid exposure to moisture or heat sources.

6. Exposure Controls/Personal Protection

Engineering Controls

- Provide adequate ventilation or extraction systems in the workspace.

Personal Protective Equipment (PPE)

- **Eye Protection**: Use safety glasses or goggles.
- **Skin Protection**: Wear gloves and suitable protective clothing.
- **Respiratory Protection**: Use a dust mask when handling powders or working in poorly ventilated areas.

Other Precautions

Maintain general industrial hygiene practices. Use proper washing facilities.

7. Physical and Chemical Properties

- **Appearance**: White crystalline powder or flakes
- **Odor**: Mild, earthy
- **Molecular Weight**: 202.25 g/mol
- **Melting Point**: 131–134°C
- **Boiling Point**: Decomposes before boiling
- **Solubility in Water**: Slightly soluble
- **Density**: 1.210 g/cm³ at 20°C

- **pH** (1% solution): 5.5–6.5
- **Flash Point**: >150°C
- **Flammability**: Not classified as flammable

8. Stability and Reactivity

Chemical Stability

- Stable under recommended storage and handling conditions.

Reactivity

- Non-reactive under normal conditions.

Conditions to Avoid

- Avoid high temperatures and prolonged exposure to moisture or strong oxidizing agents.

Hazardous Decomposition Products

- When heated to decomposition, may emit carbon monoxide and carbon dioxide.

9. Toxicological Information

Acute Toxicity

- **Oral** (LD50/Rat): >10,000 mg/kg (low acute toxicity)
- Not expected to exhibit significant acute toxic effects at typical exposure levels.

Skin and Eye Irritation

- May cause mild irritation with prolonged or repeated exposure.

Respiratory

- Overexposure to fine dust may cause temporary irritation to the respiratory tract.

Carcinogenicity

- Not listed as carcinogenic by IARC, NTP, OSHA, or other regulatory agencies.

Chronic Effects

- No known chronic effects under normal conditions.

10. Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations.
- Avoid discharge into waterways.
- Contaminated packaging or residues should be disposed of in an environmentally safe manner and according to local disposal laws.