

MATERIAL SAFETY DATA SHEET

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Identification

Product Name: Sorbic Acid
Synonyms: 2,4-Hexadienoic Acid
Formula: C₆H₈O₂
Molecular Wt: 122.1
CAS Number: 110-44-1

Hazardous Ingredient

100% Sorbic Acid

Health Hazards: Irritant; eye hazard.

SARA Hazard Class:

Acute:	Yes	Chronic:	No
Fire Hazard:	No	Pressure:	No
Reactivity:	No		

Physical Data

Melting Point: 132 - 135°C
Decomposition: From 170°C
Peak of Decomposition: 225°C
Self ignition: none below melting point (Screening test according VDI 2263)
Solubility in Water: 1.6 g/l @ 20° C
Appearance and Color: White to off-white free flowing crystalline powder with a characteristic pungent odor.

Fire and Explosive Hazard Data

Extinguishing Media: Carbon Dioxide, water spray, foam or dry chemical.
Special Fire Fighting Procedures: Use self-contained breathing apparatus and full protective clothing.
Additional Hazards: Emits toxic fumes under fire conditions. Dust-air mixtures may ignite or explode.

Reactivity Data

Stability: Stable.
Hazardous Polymerization: Will not occur.
Materials to Avoid: Avoid contact with oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition may generate carbon monoxide and carbon dioxide.

Toxicity Information

Acute Toxicity:

Ingestion: Oral mouse LD₅₀=3200 mg/kg
Eye Contact: Irritant when tested in rabbit eyes.
Skin Contact: Non-irritant when tested on rabbit skin.

Chronic:

Carcinogenicity: None.

Mutagenicity: Found to be non-mutagenic in the large majority of *in vitro* tests and no genotoxicity was found *in vivo*.

Exposure Limits

OSHA PEL (nuisance/inert dust): 5 mg/cu m (respirable)
15 mg/cu m (total)

First Aid Measures

Ingestion: If person is conscious, give water or milk to dilute stomach contents. Consult physician.

Inhalation: Consult physician if irritation of respiratory passages occurs.

Skin Contact: Immediately remove contaminated clothing and wash affected area. Consult physician if irritation continues.

Eye Contact: Flush thoroughly with water for 15 minutes. Consult physician if irritation continues.

Special Protection Information

Respiratory Protection: NIOSH approved dust mask recommended. (Irritation on respiratory tract to employees from exposure in the workplace has been observed on occasion).

Ventilation: Use local exhaust ventilation.

Protective Clothing: Clothing suitable to avoid skin contact. Safety glasses. Rubber gloves. (Skin irritation to employees from exposure in the workplace has been observed on occasion).

Additional Measures: Contact lenses should not be worn when working with this chemical.

Spill Procedures

Steps: Collect into suitable container.

Waste Disposal Method: Dispose of or incinerate in accordance with the local, state and federal regulations.

Handling and Storage

Take precautionary measures against electrostatic loading. Keep away from sources of ignition – refrain from smoking. Store in a cool, dry place protected from light.

Other Regulatory: Meets Food Chemicals Codex specifications. TSCA inventory listed. GRAS Status (21CFR182.3089).

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