

(S)-Pro-xylane MSDS

Product Name and Identification

Product Name: [\(S\)-Pro-xylane](#)

Synonyms: Hydroxypropyl Tetrahydropyrantriol

CAS Number: 439685-79-7

Chemical Formula: C₈H₁₆O₅

Product Use: Commonly used in cosmetics and personal care products as an anti-aging and skin-hydrating agent.

Manufacturer Information: [Provide specific details if applicable]

Composition/Ingredients

Chemical Name: (S)-Pro-xylane

Concentration: ≥98%

CAS Number: 439685-79-7

EC Number: Not established

Molecular Weight: 192.21 g/mol

Hazards Identification

Classification of the Substance:

This product is not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Labeling:

- **Signal Word:** None required
- **Hazard Statements:** Not hazardous under normal handling and use conditions.
- **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling.
 - P280: Wear protective gloves and eye protection during handling if applicable.

Additional Hazards:

Prolonged or repeated contact with skin or eyes may cause mild irritation in sensitive individuals.

First Aid Measures

General Advice: No significant hazards are expected during normal use. Seek medical advice if irritation or adverse symptoms occur.

- **Eye Contact:** Rinse eyes cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
- **Skin Contact:** Wash skin with soap and water. Remove any contaminated clothing. If irritation develops, seek medical advice.
- **Inhalation:** Move to fresh air. If symptoms such as dizziness or respiratory discomfort occur, seek medical attention.
- **Ingestion:** Rinse mouth with water. Seek medical attention if adverse symptoms occur.

Key Symptoms and Effects: May cause mild irritation to skin, eyes, or respiratory passages with prolonged exposure.

Handling and Storage

Handling:

- Handle in accordance with good hygiene and safety practices.
- Avoid generating dust. Minimize skin and eye contact.
- Use in a well-ventilated area.

Storage:

- Store in a tightly closed container in a cool, dry, and well-ventilated area.
- Keep away from moisture, incompatible substances, and direct sunlight.

Specific Storage Conditions: Protect from high temperatures and humidity to ensure product stability.

Exposure Controls/Personal Protection

Exposure Limits:

No specific occupational exposure limits established.

Engineering Controls:

Ensure adequate ventilation or use local exhaust to minimize dust.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety glasses or goggles if there is a risk of dust exposure.
 - **Skin Protection:** Wear gloves if prolonged contact is expected.
 - **Respiratory Protection:** Use a NIOSH-approved particulate respirator if dust levels exceed acceptable limits.
 - **General Hygiene Measures:** Wash hands and face thoroughly after handling. Avoid eating, drinking, or smoking during use.
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Physical and Chemical Properties

- **Physical State:** Solid
 - **Appearance:** White to off-white powder
 - **Odor:** Odorless or faint characteristic odor
 - **Melting Point:** Not determined
 - **Boiling Point:** Not applicable (decomposes)
 - **Density:** Approximately 1.2 g/cm³ (at 20°C)
 - **Solubility:** Soluble in water, ethanol, and other polar solvents
 - **pH (1% solution):** Neutral to slightly acidic (4-7)
 - **Vapor Pressure:** Negligible at room temperature
 - **Flash Point:** Not applicable
 - **Molecular Weight:** 192.21 g/mol
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Stability and Reactivity

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid: Avoid excessive heat, moisture, and direct sunlight.

Materials to Avoid: Strong oxidizing agents and acids.

Hazardous Decomposition Products: Under combustion, may release carbon monoxide and carbon dioxide.

Reactivity: Non-reactive under standard handling and usage conditions.

Toxicological Information

Routes of Exposure:

- Skin contact

- Eye contact
- Dust inhalation
- Accidental ingestion

Acute Toxicity:

No significant acute toxicity expected under normal conditions of use.

Irritation: Prolonged skin or eye contact may cause mild irritation.

Chronic Effects: No known significant chronic health effects.

Carcinogenicity: (S)-Pro-xylane is not classified as carcinogenic by OSHA, IARC, or NTP.

Other Health Effects: May cause mild irritation to sensitive individuals with prolonged exposure.

Disposal Considerations

General Disposal Guidelines:

Dispose of contents and containers in accordance with local, regional, and national regulations.

Specific Disposal Instructions:

- Avoid releasing into waterways or sewer systems.
- Dispose of waste material at an approved chemical disposal site or through an authorized waste management provider.

Recycling Information: Consider recycling unused product in compliance with applicable regulations.