



## Dojindo Laboratories

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# Material Safety Data Sheet (MSDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

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### Section 1. *Chemical Identification*

Trade Name: **Biotin-OSu**  
Manufacturer: Dojindo Laboratories  
Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun,  
Kumamoto 861-2202, Japan  
Telephone: +81-96-286-1515

### Section 2. *Composition / Information on Ingredients*

Chemical Name: N-Succinimidyl D-biotin  
CAS Registry #: 35013-72-0

### Section 3. *Health Hazard Data*

Route(s) of Entry:  
Inhalation? Yes; Skin? Yes; Ingestion? Yes  
Health Hazards (Acute and Chronic): May be harmful by inhalation, ingestion, or skin absorption.  
Causes eye and skin irritation.  
Material is irritating to mucous membranes and upper respiratory tract.  
Signs and Symptoms of Exposure: Not available  
Medical Conditions Generally Aggravated by Exposure: Not available

### Section 4. *First Aid Procedures*

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact, immediately wash skin with soap and copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, wash out mouth with water. Call a physician. Discard contaminated clothing and shoes.

### Section 5. *Fire and Explosion Hazard Data*

Flash Point (Method Used): Not available  
Flammable Limits: Not available  
Extinguishing Media: Carbon dioxide, dry chemical powder, foam, water.  
Special Fire Fighting Procedures:  
Wear protective clothing, respirator, chemical safety goggles, rubber boots and heavy rubber gloves.  
Unusual Fire and Explosion Hazards:  
Fire may produce irritating or poisonous gases.

### Section 6. *Accidental Release Measures*

Steps to be Taken in Case Material is Released or Spilled:  
Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.  
Evacuate area. Sweep up, place in a bag and hold for waste disposal.  
Ventilate area and wash spill site after material pickup is complete.  
Avoid raising dust.

### Section 7. *Handling and Storage*

Wear appropriate NIOSH / MSHA-approved respirator, chemical-safety goggles, chemical-resistant gloves, other protective clothing. Mechanical exhaust required. Use only in a chemical fume hood. Safety shower and eye bath. Face shield.  
Do not breathe dust. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.  
Irritant. Harmful solid. Avoid all contact. Avoid prolonged or repeat.  
Other Precautions: Keep tightly closed. Protect from moisture. Store in deep freeze at -20°C, dark and dry place.

### Section 8. *Exposure Controls / Personal Protection*

Respiratory Protection (Specify Type): Necessary  
Ventilation, Local Exhaust: Chemical fume hood

Mechanical (General):	Necessary
Protective Gloves:	Chemical-resistant gloves
Eye Protection:	Chemical-safety goggles
Other protective Clothing or Equipment:	Necessary
Work / Hygienic Practices:	Wash thoroughly after handling. Access to a safety shower and eye-wash. Do not permit eating, drinking or smoking near material.

**Section 9.** *Physical / Chemical Characteristics*

Melting Point:	Not available
Boiling Point:	Not available
Specific Gravity (water=1):	Not available
Vapor Pressure:	Not available
Vapor Density (air=1):	Not available
Evaporation Rate (butyl acetate=1):	Not available
Solubility in DMSO:	Soluble
Appearance and Odor:	White or slightly yellow powder

**Section 10.** *Reactivity Data*

Stability:	Stable
Conditions to Avoid:	Heat, sunlight, high temperature
Incompatibility (Materials to Avoid):	Strong oxidizing agents, strong acids and strong bases.
Hazardous Decomposition or Byproducts:	When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.
Hazardous Polymerization:	Will Not Occur

**Section 11.** *Toxicological Information*

Acute Effects:	Data not available
Chronic Effects:	Data not available
Carcinogenicity:	Data not available
RTECS #:	Not listed

**Section 12.** *Ecological Information*

Data not available

**Section 13.** *Disposal Considerations*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Section 14.** *Transport Information*

Not regulated

**Section 15.** *Regulatory Information*

Not applicable

**Section 16.** *Other Information*

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Dojindo Laboratories shall not be held liable for any damage resulting from handling or from contact with the above material.

*Munetaka Ishiyama*  
Manager  
Quality Control