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## Material Safety Data Sheet

### **D-panthenol MSDS**

#### **Section 1: Chemical Product and Company Identification**

**Product Name:** D-panthenol

**CAS#:** 81-13-0

**CI#:** Not available.

**Chemical Formula:** C<sub>9</sub>H<sub>19</sub>NO<sub>4</sub>

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#### **Section 2: Composition and Information on Ingredients**

**Composition:**

<b>Name</b>	<b>CAS #</b>	<b>% by Weight</b>
D-panthenol	81-13-0	100

**Toxicological Data on Ingredients:** Not applicable.

**Section 3: Hazards Identification**

EMERGENCY OVERVIEW

Hygroscopic (absorbs moisture from the air).

Potential Health Effects      Eye:

May cause mild eye irritation. Skin:

May cause mild skin irritation. Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

**Section 4: First Aid Measures**

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively

**Section 5: Fire and Explosion Data**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Section 6: Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

### Section 7: Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep refrigerated. (Store below 4°C/39°F.) Store protected from moisture.

### Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 81-13-0:

Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### Section 9: Physical and Chemical Properties

Physical State: Viscous liquid  
Color: clear, colorless  
Odor: None reported.  
pH: Not available.  
Vapor Pressure: Not available.  
Viscosity: Not available.  
Boiling Point: 118-120 deg C @ 0.02 mmHg  
Freezing/Melting Point: Not available.  
Autoignition Temperature: Not applicable.  
Flash Point: 140-161 deg C  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature:  
Solubility in water: freely soluble  
Specific Gravity/Density: 1.200  
Molecular Formula: C<sub>9</sub>H<sub>19</sub>NO<sub>4</sub>  
Molecular Weight: 205.26

### Section 10: Stability and Reactivity Data

Chemical Stability:  
Stable at room temperature in closed containers under normal storage and handling conditions. Heating over 70°C can cause racemization to DL-Panthenol, CAS = 16485-10-2.  
Conditions to Avoid:  
Moisture, excess heat.  
Incompatibilities with Other Materials:  
Strong oxidizing agents.  
Hazardous Decomposition Products:  
Nitrogen oxides, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

### Section 11: Toxicological Information

RTECS#:  
CAS# 81-13-0: ES4316000  
LD50/LC50:  
CAS# 81-13-0: Draize test, rabbit, eye: 500 ug Mild; Draize test, rabbit, skin: 500 mg/4H Mild; Oral, mouse: LD50 = 15 gm/kg.  
Carcinogenicity:  
D-Panthenol -  
Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

### Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

### Section 13: Disposal Considerations

**Waste Disposal:**

Waste disposed

### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material..

**Identification:** : Not applicable.

**Special Provisions for Transport:** Not available.

### Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 81-13-0: 0

Canada

CAS# 81-13-0 is listed on Canada's DSL List.

CAS# 81-13-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 81-13-0 is listed on the TSCA inventory.

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/12/2011

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