



Section 1. Product and Company Identification

Product Name D-Panthenol
CAS Number 81-13-0

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 📠 (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Classification of the substance/mixture
The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard Classes/Hazard Categories	Hazard Codes
N/A	N/A

67/548/EEC	
Hazard Characteristics	R-Phrases
N/A	N/A

Label Elements

Hazard Pictograms: No hazard pictogram is used.

Signal Word(s): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

Other hazards: Not available.

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

N/A



Section 3. Composition / Information on Ingredients

Common Name D-Panthenol
Synonym(s) Dexpanthenol
Formula $C_9H_{19}NO_4$
CAS Number 81-13-0

COMPONENT	CAS NUMBER	CONCENTRATION
D-Panthenol	81-13-0	100%

Section 4. First Aid Measures

Description of First-aid Measures: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: The product is not classified as harmful to human health effect.

Indication of any immediate medical attention and special treatment needed: If skin irritation or rash occurs, get medical advice/attention.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, dry powder, alcohol-resistant foam, dry chemical.

Unsuitable extinguishing media: Not available.

Special hazards arising from the substance or mixture: Heating or fire can release toxic gas.

Special firefighting methods and special protective actions for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Provide adequate ventilation. Avoid inhalation of vapors. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated.

Environmental Precautions: Try to prevent the material from entering drains or water courses.

Methods for Containment and Cleaning up: Absorb with absorbing material (e.g. universal binding agent). Keep in suitable, closed containers for disposal.

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

Additional information: Not applicable.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid breathing vapors. If exposed to high vapors concentration, leave area immediately. Work clothes should be washed separately at the end of each work day. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Protect from humidity. Store at room temperature.

Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits: Not available.

Additional exposure limits under the conditions of use: Not available.

DNEL/DMEL and PNEC-Values: Not available.

Exposure controls

Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate vapors, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses.

Hand protection: Glove material: for example nitrile rubber; Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

Body protection: Protective suit.

Respiratory protection: No personal respiratory protective equipment normally required.

Thermal hazards: Wear suitable protective clothing to prevent heat.

Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Liquid, viscous

Color: Colorless to slightly yellow.

Odor: Odorless

Odor threshold: Not available

pH: Not available

Melting point/range (°C): -25°C

Boiling point/range (°C): 235.6°C

Flash point (°C): 150.5°C

Evaporation rate: Not available

Flammability limit - lower (%): Not available

Flammability (solid, gas): Not available

Ignition temperature (°C): Non flammable

Upper/lower flammability/explosive limits: Not available

Vapor pressure (25°C): 0.000056 Pa

Vapor density: Not available

Density: 1.2 g/cm³ at 20°C

Bulk density (kg/m³): Not available

Water solubility (g/l): > 509 g/L at 22°C

n-Octanol/Water (log Po/w): -1.06 at 22°C

Auto-ignition temperature: > 400°C

Decomposition temperature: Not available

Viscosity, dynamic (mPa.s): Not available

Explosive properties: Not available

Oxidizing properties: Not available

Molecular Formula: C₉H₁₉NO₄

Molecular Weight: 205.25

Other information

Fat solubility (solvent- oil to be specified) etc: Not available

Surface tension: Not available

Dissociation constant in water (pKa): 11.65 (22°C)



Oxidation-reduction Potential: Not available
Specific gravity: Not available

Section 10. Stability and Reactivity

Reactivity: The substance is stable under normal storage and handling conditions.
Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: Incompatible materials. Heat.
Incompatible materials: Strong acids and strong bases, strong oxidizing agents.
Hazardous decomposition products: Heating or fire can release toxic gas.

Section 11. Toxicological Information

Toxicokinetics, metabolism, and distribution
Non-human toxicological data: Not available

Information on toxicological effects

Acute toxicity

LD50 (Oral, Rat): > 10000 mg/kg bw
LD50 (Dermal, Rat): > 2000 mg/kg bw
LC50 (Inhalation, Rat): Not available
Skin corrosion/Irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified

Section 12. Ecological Information

Toxicity

Acute Toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 1000 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 100 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 100 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Readily biodegradable
Bioaccumulative potential: Not available.



Mobility in soil: The product is soluble in water.
Results of PBT & vPvB assessment: The substance is not PBT/vPvB.
Other adverse effects: Not available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

	Land Transport (ADR/RID)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not regulated	Not regulated	Not regulated
Transport Hazard Class	Not regulated	Not regulated	Not regulated
Packaging Group	Not regulated	Not regulated	Not regulated
Environmental Hazards	No	No	No
Special Precautions for User	See Section 2	See Section 2	See Section 2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

Relevant information regarding authorization: Not applicable.
Relevant information regarding restriction: Not applicable.
Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.
Other National regulations: Not applicable
Chemical Safety Assessment has been carried out? YES

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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