

**DL-Panthenol**

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Date: 12 / 29 / 2020

Version: 1

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## SECTION 1. IDENTIFICATION

**Product Name/Identifier** DL-Panthenol  
**Product Code** FSSD00110

**Restrictions on Use** Not available

**Supplier Site** Formulator Sample Shop  
**Address** 135 Joshua Court  
Lincolnton, NC 28092, USA

**Telephone No. (24hrs)** 1-704-276-7099

**Emergency Telephone #** 1-704-276-7099 (Mon-Fri: 8:00AM – 5:00PM EST)

## SECTION 2. HAZARD(S) IDENTIFICATION

### Classification:

#### GHS / CLP

**Basis for Classification:** Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

#### USA

**OSHA Regulatory Status:** This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Europe

**Basis for Classification:** -According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.  
-This product is not classified as hazardous to health or environment according to the CLP regulation.

### Labeling Elements:

**Pictograph:** No hazard symbol expected

**Hazard statements/Signal Word:** Not applicable

**Precautionary statements:** P233: Keep container tightly closed  
P281: Use personal protective equipment as required  
P402: Store in a dry place  
P404: Store in a closed container  
P410: Protect from sunlight  
P411: Store at temperatures not exceeding 32°C

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**Other hazards which do not result in classification:**

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hydroscopic effect: No particular hazards.

**US NFPA 704 (National Fire Protection Association) Hazard Rating System:**

Health hazard: Rating 0; Normal Material

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

**Results of PBT and vPvB assessment:**

-PBT: Not applicable

-vPvB: Not applicable

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## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Common Chemical Name:** Panthenol

**Chemical Family:** Substance

**Description:** Substance

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>	<u>Percentage</u>
Panthenol	16485-10-2	240-540-6	100.00%

**Molecular Formula:** C<sub>3</sub>H<sub>19</sub>NO<sub>4</sub>

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## SECTION 4. FIRST-AID MEASURES

**General:** 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 of combustion. If symptoms persist, call a physician immediately.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Eye contact:** Immediately rinse with plenty of water for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Consult with a physician if irritation persists.

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

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## SECTION 5. FIRE-FIGHTING MEASURES

<b>Fire and explosion hazards:</b>	Not considered to be a fire and explosion hazard
<b>Extinguishing media:</b>	
Suitable:	Water spray, dry powder, alcohol-resistant foam and dry chemical
Not suitable:	None known
<b>Fire fighting:</b>	Move container from fire area if it can be done without risk. Collect contaminated fire extinguishing water separately. This should not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Heating or fire can release toxic gas.
<b>Protection for fire-fighters:</b>	Full protective clothing, including boots, gloves, goggles and self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid contact with eyes and skin. Personal Protective Equipment: -Protective goggles  Provide adequate ventilation. Avoid inhalation of dust.
<b>Environmental precautions:</b>	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system. Keep in suitable, closed containers for disposal.
<b>Methods for cleaning up:</b>	
Recovery:	Pick up free powder for recycling or disposal.
Disposal:	For disposal of residues refer to sections 8 & 13.

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## SECTION 7. HANDLING AND STORAGE

### Handling

Technical measures:	Handle in accordance with good industrial hygiene and safety practices.
Safe handling advice:	Avoid breathing dust. If exposed to high dust 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/exhaust at the workplace. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Do not eat, drink or smoke in work areas.

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## Storage

Technical measures:	Keep container tightly closed in a dry and well-ventilated place.
Recommended Storage Conditions:	Store in a cool place at room temperature. Protect from humidity.
Incompatible products:	Avoid contact with strong acids and bases, strong oxidizing agents. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)
Packaging:	Product may be packaged in normal commercial packaging.
Packaging materials:	Recommended - Polypropylene & High Density Polyethylene

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Precautionary statements:** Ensure adequate ventilation

### Control parameters

Occupational exposure Limits: Not available

DNEL/DMEL and PNEC-Values: Not available

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

### Personal Protective Equipment:

Respiratory protection: No personal respiratory protective equipment normally required.  
Hand protection: Protective gloves, for example nitrile rubber. Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

Eye protection: Safety glasses  
Skin and Body Protection: Suitable protective clothing  
Thermal hazards: Wear suitable protective clothing to prevent heat.

Measures related to the Environment: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Powdery solid  
**Color:** White to like white  
**Odor:** Slight, characteristic  
**pH:** Not available

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<b>Density:</b>	1.29 g/cm <sup>3</sup> at 19.8°C
<b>Vapor pressure (25°C):</b>	0.004 Pa
<b>Vapor density:</b>	Not available
<b>Boiling Point:</b>	239.8°C
<b>Freezing Point:</b>	Not available
<b>Melting point:</b>	64.5 – 68.5°C
<b>Flash point:</b>	Not available
<b>Auto-ignition temperature:</b>	> 400°C
<b>Molecular weight:</b>	205.25
<b>Solubility:</b>	
In water:	562.3 g/L at 22°C
Log Po/w:	-1.02 at 22°C
<b>Surface tension:</b>	70.2 mN/m
<b>Dissociation constant in water:</b>	11.65 pKa at 22°C

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Keep away from heat.
<b>Materials to avoid:</b>	No dangerous reaction known with common products.
<b>Hazardous decomposition products:</b>	Heating or fire can release toxic gas.

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	
LD <sub>50</sub> (Oral, Rat):	> 2,000 mg/kg bw
LD <sub>50</sub> (Dermal, Rat):	> 2,000 mg/kg bw
LC <sub>50</sub> (Inhalation, Rat):	Not available
<b>Skin Corrosion/Irritation:</b>	Not classified
<b>Serious Eye Damage/Irritation:</b>	Not classified
<b>Respiratory or Skin Sensitization:</b>	Not classified
<b>Germ Cell Mutagenicity:</b>	Not classified

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**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**STOT-Single Exposure:** Not classified

**STOT-Repeated Exposure:** Not classified

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Acute Toxicity		Time	Species	Method	Evaluation	Remarks
LC <sub>50</sub>	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC <sub>50</sub>	> 100 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC <sub>50</sub>	> 100 mg/L	72h	Algae	OECD 201	N/A	N/A

### Biodegradability:

Persistence: Readily biodegradable, but failing 10-day window

### Bioaccumulation:

Octanol / water partition coefficient: Not available

### Mobility:

Precipitation:

Expected behavior of the product: The product is soluble in water

### Other Adverse Effects:

Not available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Residues from product

Prohibition: Do not allow the product to be released into the Environment.  
 Destruction/Disposal: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

## SECTION 14. TRANSPORT INFORMATION

**UN Number:** None

**UN Shipping Name:** None

**Transport Hazard Class:** Not regulated

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Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID  
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG  
Air: Material is not restrictive for air transport and is not regulated by ICAO/IATA

**Marine Pollutant:** No

**Transport/Additional Information:** Not regulated for US DOT Transport in non-bulk containers  
This material is not dangerous or hazardous

**Special Precautions for User:** None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

## SECTION 15. REGULATORY INFORMATION

### Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

### Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40  
Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No  
Hazardous material control regulation: No  
Fire prevention regulation: No

### Other regulations:

EINECS inventory status:	Panthenol:	240-540-6
TSCA inventory status:	Exempt	
AICS inventory status:	16485-10-2	
Canadian (CEPA DSL) inventory status:	Listed as Butanamide, 2,4-dihydroxy-Ú-(3-hydroxypropyl)-3,3-dimethyl-, (±)- (DSL)	
Japan (MITI list):	Panthenol	
Korea:	Panthenol	
China inventory status:	Panthenol	
Philippines inventory status:	Listed as Butanamide, 2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl-	

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

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## SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: N/A

Preparation Date: 12/29/2020

MSDS summary of changes No deletion, addition or revision to date

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.