

D-PANTHENOL 75% – SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

PRODUCT IDENTIFIER

| | |
|--------------|---|
| Product name | D (+)-Pantothenyl Alcohol |
| Synonyms | Panthenol; D(+)- Panthenol; Dexpanthenol; D-Panthenol; D-2,4-Dihydroxy-N- (3- hydroxypropyl)-3,3-dimethylbutyramide |
| Product Use | D-Panthenol 75W is the Provitamin of D-Pantothenic acid(Vitamin B5),which plays a key role in the human intermediary metabolism. Deficiency of Vitamin B5 can result in many dermatological disorders. D-panthenol 75W is applied in pharmaceutical industry and almost all types of cosmetic preparations. Role in the skin: 1. deep penetrating moisturizer 2. stimulates epithelisation 3. wound healing effect 4. anti-inflammatory effect Role in the hair:1. long lasting moisturizer 2. prevents hair damage 3. thickens hair 4. improves lustre and sheen |

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

| | |
|---------------|---|
| Supplier name | Pure Ingredients Ltd |
| Address | 626A Rosebank Road, Avondale, Auckland 1026 New Zealand |
| Telephone | +649 8135619 |
| Website | www.pureingredients.co.nz |
| Email | compliance@pureingredients.co.nz |

EMERGENCY TELEPHONE NUMBER

| | |
|-----------------------------|--|
| CHEMCALL | 0800 CHEMCALL / 800 243 622 (24hr) |
| Emergency telephone numbers | 111 |
| Others | NZ Poisons Centre 0800 POISON (0800 764 766) |

SECTION 2 HAZARDS IDENTIFICATION

HSNO Approval No. HSR003475

HSNO Classification: 6.3B, 6.4A

Signal Word: WARNING

Hazard Statement: Causes mild skin irritation, Causes serious eye irritation.

Prevention: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| | | | |
|-------------------------|--|--------------------|---------|
| Chemical Name | Dexpanthenol | CAS No | 81-13-0 |
| Chemical Formula | C ₉ H ₁₉ NO ₄ | % by weight | 75 |

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

| | |
|------------------|--|
| Swallowed | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Serious Ingestion: Not available. |
| Eye | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs. |
| Skin | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. Serious Skin Contact: Not available. |
| Inhaled | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Serious Inhalation: Not available. |

SECTION 5 FIREFIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available. **Flash Points:** Not available. **Flammable Limits:** Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available. **Special Remarks on Explosion Hazards:** Not available.

SAFETY DATA SHEET

SECTION 6 ACCIDENTAL RELEASE MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7 HANDLING AND STORAGE

| | |
|--------------------|---|
| Precautions | Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis. |
| Storage | Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F). |

SECTION 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious).

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------------|---------------------------|------------------------------|--|
| Physical State / Appearance | Liquid. (Viscous liquid.) | Odour Threshold | Not available. |
| Taste | not available | Molecular Weight | 205.26 |
| Odour | Not available. | Water/Oil Dist. Coeff | Not available. |
| Colour | Clear Colourless. | Ionicity (in Water) | Not available. |
| pH | 5.5 – 7.0(5%solution) | Volatility | Not available |
| Melting Point | Not available. | Dispersion Properties | See solubility in water, methanol. |
| Boiling Point | 118-120degC@2.7P | Solubility | Easily soluble in cold water, methanol. Very slightly soluble in diethyl ether. Very soluble in ethanol. |
| Critical Temperature | Not available. | Vapour Pressure | Not available |
| Specific Gravity | Not available. | Vapour Density | 7.08 (Air = 1) |

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Hygroscopic:absorbs moisture or water from the air.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, moisture, incompatible materials

Incompatibility with various substances:

Reactive with oxidizing agents, acids, alkalis. Slightly reactive to reactive with

moisture. **Corrosivity:** Not available.

Special Remarks on Reactivity:

Hygroscopic. Incompatible with alkalis and strong acids, and strong oxidizing agents.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

SAFETY DATA SHEET

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals: Acute oral toxicity (LD50): 15000 mg/kg [Mouse].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Inhalation of vapor causes respiratory tract irritation. Ingestion: Ingestion of large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhoea.

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 product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14 TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION 15 REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Dexpanthenol SARA 313 toxic chemical notification and release reporting: Dexpanthenol

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves (impervious). Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Approval Number: HSR003475

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Revision: 00 – 28/ 08/ 2018 SA032 29052017

Version: 01 Revision Date: 04/05/2020: PIL SDS Change of address - no changes to SDS.