

Provitamin B5 (d-panthenol)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Provitamin B5 (d-panthenol)	Distributor:	MakingCosmetics Inc.
Synonyms:	No data available	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	d-panthenol, water, pantolactone	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	81-13-0, 7732-18-5, 599-04-2	Web:	www.makingcosmetics.com
Formula:	No data available		
Product Form:	Liquid		
Product Use:	Cosmetic use	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Not a hazardous substance or mixture.
GHS Labeling: Not a hazardous substance or mixture.
GHS Hazard Pictograms: None.
GHS Hazard Statements: None.
GHS Precautionary Statements: None.
Potential Health Hazards: Eyes: May expected to be an irritant.
 Inhalation: Not expected to be an irritant.
 Skin: Not expected to be an irritant.
 Ingestion: No data available.

NFPA Ratings (704):

Health	0	Minimal
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
D-Panthenol	81-13-0	Not Available	Not Available
Water	7732-18-5	Not Available	Not Available
Pantolactone	599-04-2	Not Available	Not Available

4 FIRST AID MEASURES

Eyes: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Seek medical attention if necessary.

Inhalation: Move to fresh air. Seek medical attention if necessary.

Skin: Wash off with soap and plenty of water. Seek medical attention if necessary

Ingestion: Rinse mouth with water. Do not give milk or alcoholic beverages. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if necessary.

General Information: No hazards which require special first aid measures.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperature. Use appropriate media (alcohol-resistant foam, dry chemical) for adjacent fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No unsuitable extinguish media listed.

Special protective equipment & precautions for firefighters: Follow standard procedure for chemical fires. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Flash Points: >212 °F (>100 °C)
Specific hazards arising from the chemical: None known.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Keep unnecessary personnel away. Keep people away from and up wind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.

Methods and material for containment and cleaning up: The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. This product is insoluble in water. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Take necessary action to avoid static electricity discharge. Product will burn under fire conditions. Observe good industrial hygiene practices. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities: To maintain product quality, do not store in heat or direct sun-light. Keep container tightly closed and dry. No special restrictions on storage with other products (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Provitamin B5 (d-panthenol)	Not available	Not available	Not available

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Safety glasses should be worn.

Inhalation: No personal respiratory protective equipment normally required.

Body: Wear appropriate chemical resistant gloves (ex: nitrile rubber). Lightweight protective clothing should be worn.

Hygiene Follow general industrial hygiene practice.

Measures:

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Vapor Pressure:	Not determined
Odor:	Odorless	Vapor Density:	Not applicable
Odor Threshold:	No data available	Evaporation Rate:	Not determined
Color:	Colorless to pale yellow	Flammability:	No data available
Oxidizing Properties:	Not oxidizing	Upper/lower Explosive Limit:	Not determined
pH:	No data available	Flash Point:	>212 °F (>100 °C)
Boiling Point:	Not determined	Specific Gravity:	No data available
Melting Point:	Not determined	Water Solubility:	Completely soluble
Density:	Not determined	Auto-Ignition Temperature:	Not determined
Partition Coefficient: n-octanol/water:	Not applicable	Thermal Decomposition:	No data available
Viscosity:	Not determined	Explosive Properties:	Not explosive

10 STABILITY AND REACTIVITY

Reactivity:	No hazards to be specially mentioned.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Heat.
Incompatible Materials:	Strong acids and strong bases. Strong oxidizing agents.
Hazardous Decomposition Products:	No decomposition if used as directed.
Possible Hazardous Reactions:	Product will burn under fire conditions.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Oral toxicity estimate: >5,000 mg/kg (Calculation method). Dermal toxicity LD50: >3,500 mg/kg (rat). Information refers to the main component.
Skin:	No skin irritation. (Rabbit, OECD Test Guideline 404). No phototoxic skin reaction (Guinea pig, CTFA Test Guideline). Information above refers to the main component.
Eyes:	No eye irritation (Rabbit, OECD Test Guideline 405). Information refers to the main component.
Respiratory:	No data available.
Ingestion:	No data available.
Carcinogenicity:	No indication for carcinogenicity known.
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Teratogenicity:	No human information is available.
Genotoxicity in Vitro	Not mutagenic (In vitro gene mutation study in mammalian cells, OECD Test Guideline 476). Not genotoxic (Chromosome aberration test in vitro, OECD Test Guideline 473). Information above refers to the main component.
STOT (Single, Acute Exposure):	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT (Repeated Exposure):	NOAEL (Oral, Rat): 200 mg/kg bw/d. Sub-chronic toxicity study (90-day). Information above refers to the main component.
Human Exposure Experience:	Hypervitaminosis from provitamin B5 and vitamin B5 is unknown.
Human Exposure Experience (Skin Contact):	Allergic contact dermatitis (Cases have been reported rarely).
Skin Sensitization:	Did not cause sensitization. (Guinea pig). No photoallergenic skin reaction (Guinea pig, CTFA Test Guide-line). Information above refers to the main component.
Aspiration Hazard:	No aspiration toxicity classification.

12 ECOLOGICAL INFORMATION

Ecotoxicity	
Aquatic Vertebrate:	LC50: 96 hours >1,000 mg/l (rainbow trout). Test substance: Active ingredient (OECD Test Guideline 203)
Aquatic Invertebrate:	EC50: 48 hours >100 mg/l (water flea). Test substance: Active ingredient (OECD Test Guideline 202)
Terrestrial:	EbC50: 72 hours >100 mg/l (green algae) Test substance: Active ingredient (OECD Test Guideline 201) NOEC (72 hours) 100 mg/l NOEC 569 mg/l activated sludge: No inhibition was observed under the biodegradation test conditions. OECD Test Guideline 302B Pseudomonas putida EC50: (17 hours) > 10,000 mg/l (nominal concentration) Information above refers to the main component. (DIN 38412)
Persistence and Degradability:	Readily biodegradable. 97 % (21 d) (OECD Test Guideline 301A) Information refers to the main component.

Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13 DISPOSAL CONSIDERATIONS

Waste Residues:	User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of contents/container in accordance with all applicable local regulations.
Product Containers:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/container in accordance with all applicable local regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	No data available.
TDG (Transportation of Dangerous Goods, Canada):	Not data available.
IMDG (International Maritime Dangerous Goods):	Not regulated as dangerous goods.
IATA/DGR (International Air Transport Association):	Not regulated as dangerous goods.
ICAO (International Civil Aviation Organization):	No data available.
UNRTDG (U.N. Transport of Dangerous Goods):	Not regulated as a dangerous goods.
Transport in bulk (Annex II of MARPOL 73/78 and IBC Code):	Not applicable for product as supplied.
49 CFR:	Not regulated as a dangerous goods.

15 REGULATORY INFORMATION

TSCA List:	No substances are subject to a Significant New Use Rule.
TSCA 12(b) Export Notification:	No substances are subject to export notification requirements.
CERCLA Reportable Quantity:	This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substance:	This material does not contain any components with a section 304 EHS RQ.
SARA 302 (Extremely Hazardous Substance):	This material does not contain any components with a section 302 EHS TPQ.
SARA311/312 Hazards:	No SARA Hazards.
SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act:	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).
Clean Water Act:	This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act.
MA Right to Know:	No components are subject to the Massachusetts Right to Know Act.
PA Right to Know:	Dexpanthenol (81-13-0), water (7732-18-5)
ME Chemicals of High	Product does not contain any listed chemicals.

Concern:
VT Chemicals of High Concern: Product does not contain any listed chemicals.
WA Chemicals of High Concern: Product does not contain any listed chemicals.

16 OTHER INFORMATION

Revision Date: 04-Mar-2024
Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.