

**Section 1: Identification**

**Product Name** Dexpanthenol USP  
**Commercial Name** Not available.  
**Product Use** Ingredient for pharmaceutical products, Ingredient for personal care products  
**Restrictions On Use** Not available.  
**Product Code** 30-2324  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Not available.  
**CFR 1910.1200**  
**Signal Word** NON-HAZARDOUS  
**Hazard Statement(s)** Not available  
**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

**Prevention** Not available.  
**Response** Not available.  
**Storage** Not available.  
**Disposal** Not available.

**Section 3: Composition/Information on Ingredients**

**Substance/Mixture** Substance  
**Components** Dexpanthenol  
**% By Weight** 100  
**CAS#** 81-13-0  
**Molecular Weight** 205.25 g/mole  
**Chemical Formula** C9-H19-N-O4  
**Synonym(s)** (R)-2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethylbutyramide

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Dexpanthenol	81-13-0	100	Not available.	Not applicable.

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
<b>Eye Contact</b>	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
<b>Ingestion</b>	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.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available.
<b>Delayed</b>	Not available.

**Immediate Medical Attention**

If skin irritation or rash occurs, get medical advice/attention.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use water spray, dry powder, alcohol-resistant foam, dry chemical

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Heating or fire can release toxic gas

**Firefighters Special Equipment and Precautions**

Fire-fighters 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**

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if vapours 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.

**Section 7: Handling and Storage**

Protective measures: Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid breathing vapours. If exposed to high vapours 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 at room temperature. No special requirement

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	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 vapours, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	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**

<b>Appearance</b>	Colorless to slightly yellow Liquid, viscous		
<b>Odor</b>	a slight characteristic odour		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	-25 °C	<b>pH</b>	9.0~10.5 (5% water solution)
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	0.000056 Pa
<b>Boiling Point/Range</b>	235.6 °C	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	150.5 °C	<b>Autoignition temperature</b>	> 400 °C
<b>Flammability</b>	Non flammable	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	> 509 g/L at 22 °C		
<b>Other</b>	Density:1.2 g/cm <sup>3</sup> (at 20 °C)		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	The substance is stable under normal storage and handling conditions
<b>Chemical Stability</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Hazardous Polymerization</b>	No dangerous reactions known.
<b>Conditions to Avoid</b>	Heat
<b>Incompatible Materials</b>	Strong acids and strong bases. Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Heating or fire can release toxic gas.

**Section 11: Toxicological Information**

RTECS ES4316000

**Acute Toxicity**

LD50(Oral, Rat): &gt; 10000 mg/kg bw LD50(Dermal, Rat): &gt; 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

**Routes of Entry**

Not available.

**Symptoms Related to Exposure**

Not classified

**Potential Health Effects**

Not classified

**Target Organ(s)**

Not classified

**Section 12: Ecological Information****Ecotoxicity**

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 insoluble in water

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**Disposal of Container**

Not available.

**Other Considerations**

Not available.

**Section 14: Transport Information****DOT Classification**

DOT Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE; Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.; California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

**Other**

WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) This product is not classified according to the EU regulations.;Lab coat.;Safety glasses.

**Section 16: Other Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text. Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.