# SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

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### **1.Identification**

### **1.1GHS Product identifier**

Product name

Pantheno1

### 1.20ther means of identification

Product number	_	
Other names	2,4-Dihydroxy-N-(3-hydroxypropy1)-3,3-dimethylbutyramide	

# 1.3Recommended use of the chemical and restrictions on use

Identified uses	For industry use only. Skin Conditioning Agents
Uses advised against	no data available

# 2.Hazard identification

### **2.1**Classification of the substance or mixture

Not classified.

### 2.2GHS label elements, including precautionary statements

Pictogram(s)	No symbol.
Signal word	No signal word.
Hazard statement(s)	none
Precautionary statement(s)	

Prevention	none
Response	none
Storage	none
Disposal	none

### 2.3Other hazards which do not result in classification

none

### **3.**Composition/information on ingredients

#### **3.1Substances**

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Panthenol	Panthenol	16485-10-2	none	100%

### 4.First-aid measures

### 4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2Most important symptoms/effects, acute and delayed

no data available

#### 4.3Indication of immediate medical attention and special treatment needed, if necessary

/SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush

contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/

#### 5.Fire-fighting measures

#### 5.1Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2Specific hazards arising from the chemical

no data available

#### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

**6.Accidental release measures** 

#### 6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2**Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7.Handling and storage

### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2Conditions for safe storage, including any incompatibilities

Dexpanthenol injection should be protected from freezing & excessive heat.

#### 8. Exposure controls/personal protection

#### **8.1Control parameters**

**Occupational Exposure limit values** 

no data available

**Biological limit values** 

no data available

#### 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.3Individual protection measures, such as personal protective equipment (PPE)** 

#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

#### 9. Physical and chemical properties

Physical state	white crystalline powder or light yellow liquid
Colour	Hygroscopic oil
0dour	no data available
Melting point/ freezing point	66–69° C
Boiling point or initial boiling point and boiling range	483.6°C at 760 mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	246. 3° C
Auto-ignition temperature	no data available

Decomposition temperature	no data available
рН	рН 9.5
Kinematic viscosity	no data available
Solubility	>30.8 [ug/mL]
Partition coefficient n-octanol/water (log value)	log Kow = -1.92 (est)
Vapour pressure	2.21E-11mmHg at 25° C
Density and/or relative density	1.166 g/cm3
Relative vapour density	no data available
Particle characteristics	no data available

# 10.Stability and reactivity

### **10.1Reactivity**

no data available

### **10.2**Chemical stability

Reasonably stable to usual sterilization time and temp in aqueous solution at pH 3.0-4.0; long heating causes racemization.

### **10.3**Possibility of hazardous reactions

no data available

#### **10.4Conditions to avoid**

no data available

### **10.5Incompatible materials**

Dexpanthenol is incompatible with alkalis & strong acids.

### **10.6Hazardous decomposition products**

When heated to decomposition it emits toxic fumes of /nitric oxide/.

### **11.Toxicological information**

#### Acute toxicity

- Oral: LD50 Mouse oral 15,000 mg/kg
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

**Reproductive toxicity** 

no data available

STOT-single exposure

no data available

### STOT-repeated exposure

no data available

Aspiration hazard

no data available

### **12.Ecological information**

### 12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### 12.2Persistence and degradability

no data available

## 12.3Bioaccumulative potential

no data available

### 12.4Mobility in soil

no data available

### 12.50ther adverse effects

no data available

### **13.Disposal considerations**

### 13.1Disposal methods

### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information			
14.1UN Number			
ADR/RID: no data available IMDG: no data available IATA: no data available			
14.2UN Proper Shipping Name			
ADR/RID: no data available			
IMDG: no data available			
IATA: no data available			
14.3Transport hazard class(es)			
ADR/RID: no data available	IMDG: no data available	IATA: no data available	
14.4Packing group, if applicable			
ADR/RID: no data available	IMDG: no data available	IATA: no data available	
14.5Environmental hazards			
ADR/RID: no	IMDG: no	IATA: no	
14.6Special precautions for user			
no data available			
14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
no data available			

### **15.Regulatory information**

# 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Panthenol	Panthenol	16485-10-2	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
		EC Inventory	Listed.
United States Tox	United States Toxic Substances Control Act (TSCA) Inventory		
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

16.Other information	
Information on revision	
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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average

- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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