



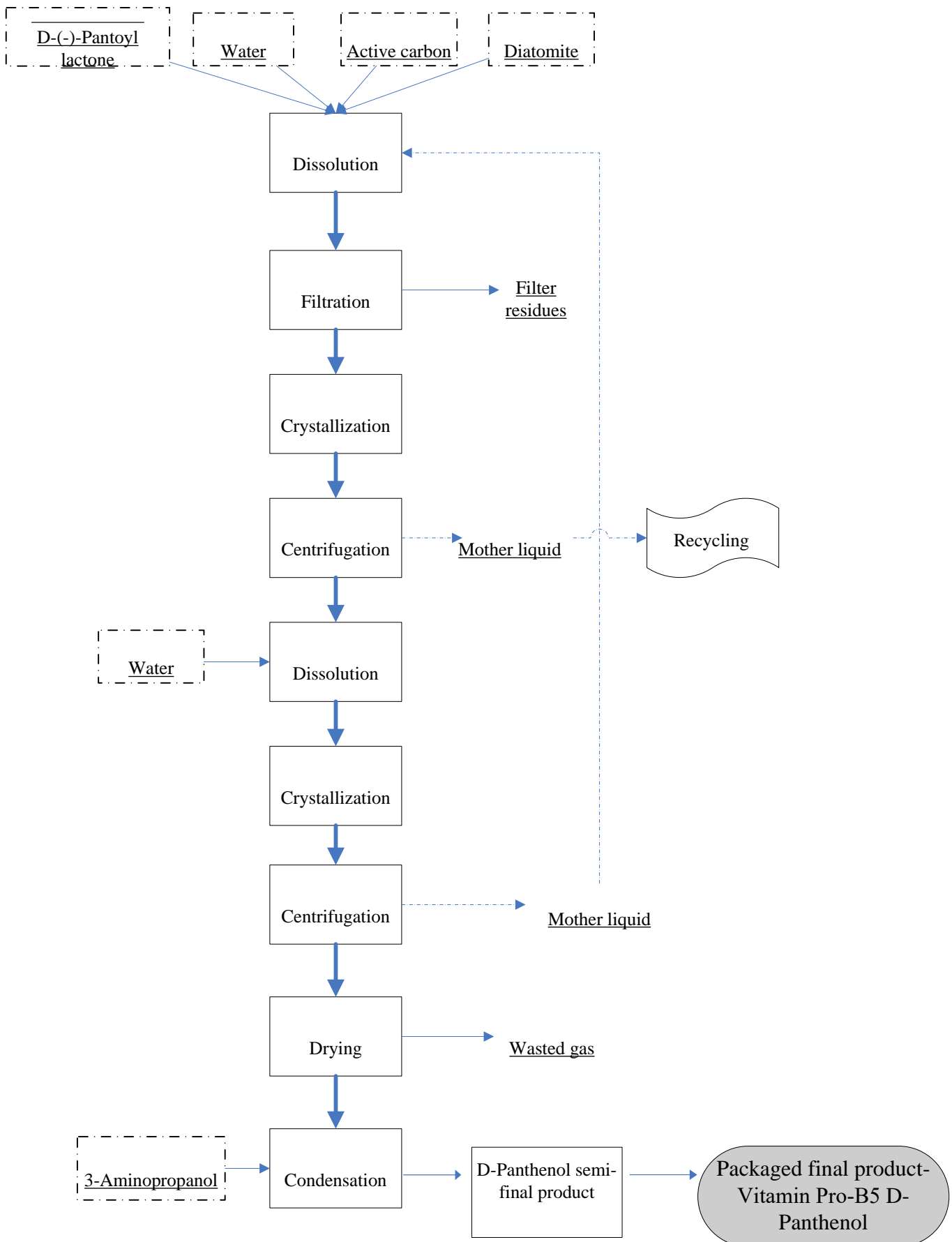
## Certificate of Analysis

**Product:** Vitamin Pro B5

**Batch Number:** 4422201

**Best Before End:** January 2023

| Test Method                                 | Analysis          | Specification                        |
|---|-------------------|--------------------------------------|
| Appearance                                  | Conforms          | Colourless, viscous and clear liquid |
| Assay, %                                    | 98.6              | 98.0 - 102.0                         |
| Identification                              | Positive Reaction | Positive reaction                    |
| Water, %                                    | 0.2               | 1.0 maximum                          |
| Specific Rotation (on dried basis), degrees | 30.4              | +29.0 - +31.5                        |
| Aminopropanol content, %                    | 0.6               | 1.0 maximum                          |
| Residue on Ignition, %                      | Conforms          | 0.1 maximum                          |
| Refractive Index                            | 1.500             | 1.496 - 1.602                        |
| Heavy Metals, ppm                           | Conforms          | 20 maximum                           |
| Organic volatile impurities                 | Conforms          | USP Standard                         |





## **CERTIFICATE**

### **Product Information**

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#### **Vitamin Pro B5 - D-Panthenol**

We, MADAR Corporation Ltd, hereby declare that, to the best of our knowledge, the above mentioned material supplied by us does not contain any ingredients from GM sources.

**Vitamin Pro B5 - D-Panthenol USP****Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product Identifier**

**Product name:** Vitamin Pro B5 - D-Panthenol USP  
**CAS number:** 81-13-0  
**EINECS number:** 201-327-3  
**INCI Name:** Panthenol

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** Emolient, lubricant.

**1.3. Details of the supplier of the safety data sheet**

**Supplier Name:** MADAR Corporation Ltd  
**Supplier Address:** 19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA

**Supplier Telephone:** +44 (0)1425 655555  
**Email:** [sales@madarcorporation.co.uk](mailto:sales@madarcorporation.co.uk)

**Approved Sellers:** Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

**1.4. Emergency telephone number**

**Telephone:** +44 (0)1425 655555

**Section 2: Hazards Identification****2.1. Classification of the substance or mixture**

**Classification under CLP:** Not classified for supply

**2.2. Label elements**

**Label Elements under CLP:** This product has no label elements under CKLP as it is not classified.

**Section 3: Composition/information on ingredients****3.1. Substances**

**Chemical identity:** D-Panthenol USP

**Section 4: First aid measures****4.1. Description of first aid measures**

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## Vitamin Pro B5 - D-Panthenol USP

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Seek medical advice if irritation occurs after washing.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

### 4.2. Most important symptoms and effects, both acute and delayed

In some cases of exposure, the following symptoms may be observed:

- Skin contact:** There may be mild irritation at the site of contact.
- Eye contact:** There may be irritation and redness
- Ingestion:** There may be soreness and redness of the mouth and throat.
- Inhalation:** Not applicable

### 4.3. Indication of any immediate medical attention and special treatment needed

- Skin contact:** Not applicable
- Eye contact:** Not applicable
- Ingestion:** Not applicable.
- Inhalation:** Not applicable

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray, alcohol resistant foam, dry chemical powder or carbon dioxide for small fires only.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits carbon monoxide / dioxide

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details.

### 6.2. Environmental precautions

**Environmental precautions:** Contain the spillage using bunding. Do not discharge into drains or rivers.

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## Vitamin Pro B5 - D-Panthenol USP

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a suitable container. Wash the spillage site with large amounts of water.

### 6.4. Reference to other sections

Not applicable

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.  
**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

Not applicable

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** Not applicable.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.  
**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.  
**Hand protection:** Protective gloves.  
**Eye protection:** Safety goggles.  
**Skin protection:** Protective clothing with elasticated cuffs and closed neck.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid mass  
**Colour:** White/yellowish  
**Odour:** Characteristic  
**Solubility in water:** Soluble  
**Soluble in:** Ethanol, propylene glycol  
**Melting Point:** 0°C

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## Vitamin Pro B5 - D-Panthenol USP

**Autoignition; Temperature/  
Explosive/ Oxidising  
Properties** 405°C approx.

**Boiling Point:** 210°C

### 9.2. Other information

Not applicable

## Section 10: Stability and reactivity

### 10.1. Reactivity

Not applicable

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not applicable

### 10.4. Conditions to avoid

**Conditions to avoid:** Avoid open flames

### 10.5. Incompatible materials

**Incompatible materials:** Strong acids bases and strong oxidising agents

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits carbon monoxide / dioxide

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** n/a

### Symptoms / routes of exposure

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## Vitamin Pro B5 - D-Panthenol USP

Irritant to eyes

### Section 12: Ecological information

#### 12.1. Toxicity

Not data available

#### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradation: >90 % 28days OECD 301(A-F)

#### 12.3. Bioaccumulative potential

Not data available

#### 12.4. Mobility in soil

**Mobility:** Dispersible in water.

#### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

#### 12.6. Other adverse effects

Not applicable

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Must be disposed of in accordance with local and national regulations.  
**Disposal of packaging:** Dispose of as normal industrial waste.  
**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

#### 14.1. UN number

**UN number:** Not classified for transport

#### 14.2. UN proper shipping name

**UN proper shipping name:** Not applicable.

#### 14.3. Transport hazard class(es)

**Transport hazard class:** Not applicable.

#### 14.4. Packing group



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## Vitamin Pro B5 - D-Panthenol USP

**Packing group:** Not applicable.

### 14.5. Environmental hazards

**Environmental hazards:** Not classified as environmentally hazardous according to UN Model Regulations (IMDG, ADR, RID and ADN)

### 14.6. Special precautions for user

**Disposal operations:** Must be disposed of in accordance with local and national regulations.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

**Transport in bulk:** Product will not be transported in bulk

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

n/a

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



## TECHNICAL DATA SHEET

### Vitamin Pro B5

**INCI Name:** Panthenol  
**Cas No:** 81-13-0  
**Synonyms:** -(R)-2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl butanamide

Vitamin Pro B5 is a colourless or slightly yellowish, clear, viscous and hygroscopic liquid. It can solidify on prolonged storage. It is freely soluble in water, alcohol and propylene glycol. The specification conforms to the USP monograph.

The principle use of Vitamin Pro B5 is in haircare applications particularly shampoos and conditioners.

#### Specification

|                             |                                   |
|-----------------------------|-----------------------------------|
| Appearance                  | Colourless, clear, viscous liquid |
| Assay, %                    | 98.0 – 102.0                      |
| Refractive Index @20°C      | 1.495 – 1.502                     |
| Specific Rotation           | +29.0° to + 31.5°                 |
| Water, %                    | 1.0 maximum                       |
| Residue on Ignition, %      | 0.1 maximum                       |
| Limit of Aminopropanol, %   | 1.0 maximum                       |
| Organic Volatile Impurities | Meets USP requirements            |

#### Allergens

It is hereby certified that this product does not contain any of the 26 allergens listed in the Cosmetic Directive CEE / 76 / 768 and amendments



## **CERTIFICATE**

### **Product Information**

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#### **Vitamin Pro B5 - D-Panthenol**

We, MADAR Corporation Ltd, hereby declare that, to the best of supplier's knowledge, the above mentioned material supplied by us, is derived from synthetic sources does not contain any ingredients animal derived ingredients.

As such, this should be suitable for use by Vegans.



## Product Information

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### Vitamin Pro B5 D-Panthenol

| No | Ingredient                           | INCI Name    | Cas #     | Content % | Function             |
|----|--------------------------------------|--------------|-----------|-----------|----------------------|
| 1  | D-Panthenol (as anhydrous substance) | Panthenol    | 81-13-0   | ≥ 98      | Active Ingredient    |
| 2  | Water                                | Water        | 7732-18-5 | ≤ 1.0     | Carried-by moisture  |
| 3  | D-(-)-Pantolactone                   | Pantolactone | 599-04-2  | < 1.0     | Residual Reactant    |
| 4  | Pantoic Acid                         | -            | 1112-33-0 | < 1.0     | Degradation material |
| 5  | 3-Aminopropanol                      | -            | 156-87-6  | < 1.0     | Residual Reactant    |

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09/05/2018