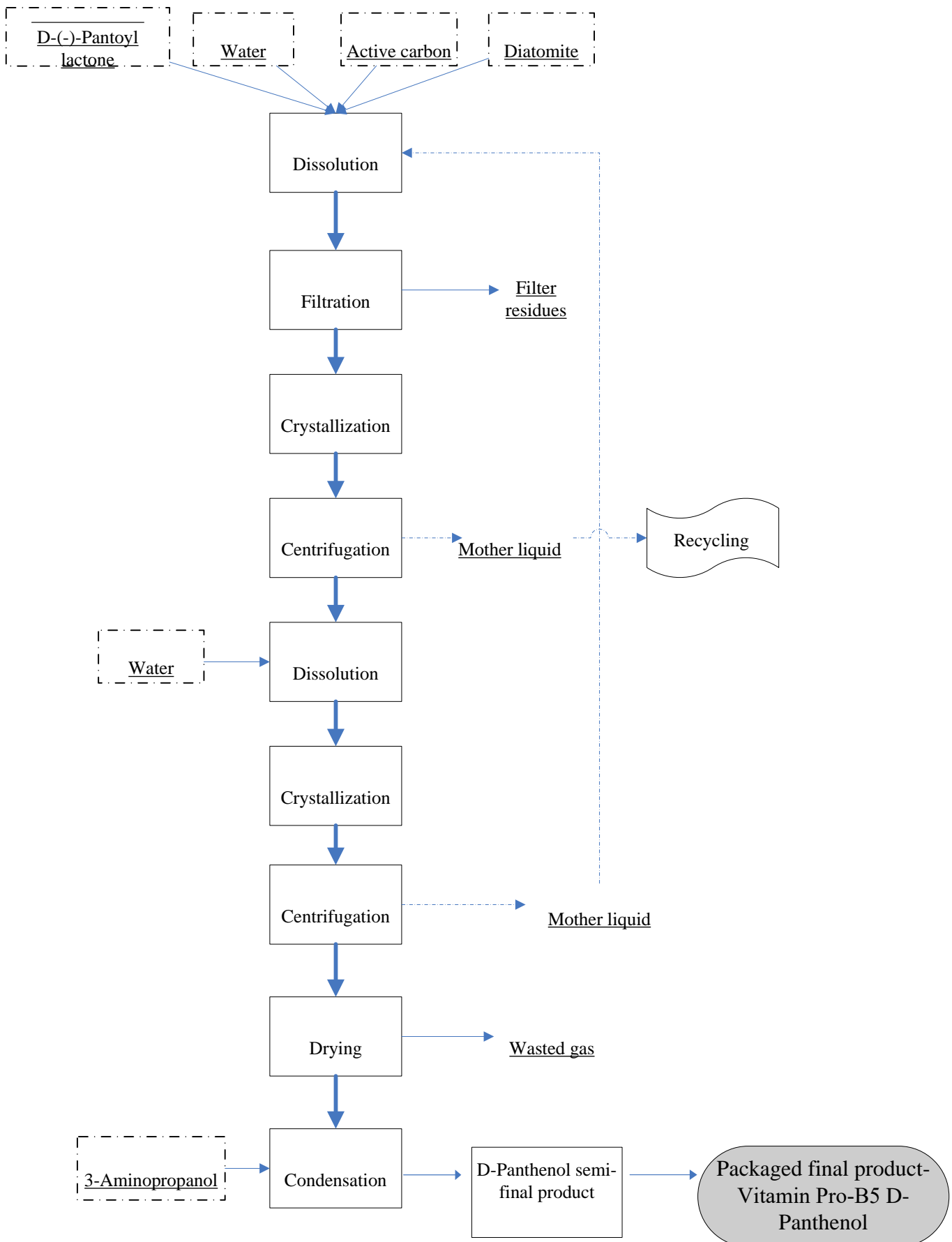




Certificate of Analysis

Product: Vitamin Pro B5
Batch Number: 4372514
Best Before End: September 2022

Test Method	Analysis	Specification
Appearance	Conforms	Colourless, viscous and clear liquid
Assay, %	98.6	98.0 - 102.0
Identification	Positive Reaction	Positive reaction
Water, %	0.3	1.0 maximum
Specific Rotation (on dried basis), degrees	30.7	+29.0 - +31.5
Aminopropanol content, %	0.49	1.0 maximum
Residue on Ignition, %	0.1	0.1 maximum
Refractive Index	Conforms	1.496 - 1.602
Heavy Metals, ppm	Conforms	20 maximum
Organic volatile impurities	Conforms	USP Standard





CERTIFICATE

Product Information

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

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**

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.

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

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

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**

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

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.