

Material Safety Data Sheet

Ectoin

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Ectoin

INCI Name: Ectoin

CAS Number: 96702-03-3

Grade: Cosmetic Grade

Recommended Use: Cosmetic and personal-care raw material.

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARD IDENTIFICATION

General precautions:

- Avoid generating or breathing dust.
- Avoid direct contact with eyes.
- Use appropriate protective equipment during bulk handling.
- Wash thoroughly after handling.
- Keep container tightly closed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component / INCI Name	CAS No.	Concentration
Ectoin	96702-03-3	≥99.0%

Batch Assay: 99.70% by HPLC.

4. FIRST-AID MEASURES

Eye Contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if easy to do. Obtain medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Seek medical advice if irritation develops.

Inhalation: Move to fresh air. Seek medical attention if respiratory discomfort persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless instructed by medical personnel. Seek medical advice if a significant quantity has been swallowed or symptoms occur.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂), or foam suitable for the surrounding fire.

Specific Hazards: Avoid generating airborne dust. Thermal decomposition may produce irritating fumes and carbon/nitrogen oxides.

Protective Equipment: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus where necessary.

6. ACCIDENTAL RELEASE MEASURES

Avoid creating dust.

Wear appropriate gloves, protective clothing and eye protection.

Carefully sweep or collect spilled powder into a suitable labeled container.

Avoid unnecessary release into drains and waterways.

Wash contaminated area after material has been collected.

7. HANDLING AND STORAGE

Handling

Handle in a manner that minimizes dust generation.

Avoid contact with eyes and prolonged contact with skin.

Maintain good industrial hygiene practices.

Storage

According to the supplied COA:

- Store in a cool and dry place.
- Do not freeze.
- Keep away from light and heat.
- Keep container sealed.
- The manufacturer's COA specifies storage in a dark place at a temperature below 18°C for the stated two-year shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit: Not provided in the supplied documentation.

Engineering Controls: Provide adequate ventilation and minimize airborne dust.

Eye Protection: Safety glasses or protective goggles.

Hand Protection: Suitable protective gloves.

Skin Protection: Normal laboratory or industrial protective clothing.

Respiratory Protection: Normally not required where adequate ventilation prevents dust accumulation.

Use appropriate particulate protection where significant dust is generated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Appearance	White to off-white crystalline powder
Odor	Odorless or faint characteristic odor
Assay	99.70% HPLC
pH (2% aqueous solution)	6.85
Specific Optical Rotation	+141.5°
Loss on Drying	0.35%
Residue on Ignition	0.12%
Solubility	Freely soluble in water

These are the actual batch results reported in the supplied COA.

10. STABILITY AND REACTIVITY

Chemical Stability: Expected to be stable under recommended storage conditions.

Conditions to Avoid: Excessive heat, direct light, moisture and incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides, nitrogen oxides and other irritating fumes.

Hazardous Polymerization: Not expected under normal storage and handling conditions.

11. TOXICOLOGICAL INFORMATION

Specific toxicological test data are not provided in the supplied COA.

Avoid unnecessary exposure to concentrated powder.

Dust may cause mechanical irritation to the eyes or respiratory tract.

No medical or therapeutic claims are made by this SDS.

12. ECOLOGICAL INFORMATION

Specific ecotoxicity, persistence, bioaccumulation and mobility data were not provided in the supplied documentation.

Avoid unnecessary release of bulk quantities into the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging according to applicable federal, provincial and local regulations.

Do not discharge bulk quantities directly into drains or waterways.

14. TRANSPORT INFORMATION

The supplied COA does not contain transport-classification information.

UN Number: Not established from supplied documentation

TDG: Not established from supplied documentation

DOT: Not established from supplied documentation

IATA: Not established from supplied documentation

IMDG: Not established from supplied documentation

Final transport classification should be confirmed using the manufacturer's current product-specific SDS.

15. REGULATORY INFORMATION

Product: Ectoin

INCI: Ectoin

CAS No.: 96702-03-3

Intended Application: Cosmetic/personal-care raw material

Users are responsible for determining compliance with applicable Canadian and international cosmetic, workplace, transportation and finished-product regulations.

16. OTHER INFORMATION

This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge and specifications. The analysis and statements herein constitute the most complete information available to Botanic Planet Canada Inc. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing contained herein as a recommendation. The Liability of Botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that jurisdiction is limited to the province of Ontario Canada.

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