

Material Safety Data Sheet

Dipeptide-2

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dipeptide-2

Chemical Name: L-Valyl-L-Tryptophan

Synonyms: Val-Trp, Valyl-Tryptophan, H-Val-Trp-OH

CAS No.: 24587-37-9

Molecular Formula: C₁₆H₂₁N₃O₃

Molecular Weight: 303.36 g/mol

Grade: Cosmetic Grade

Country of Origin: China

Grade: Cosmetic / Perfumery Grade

Recommended Use: Cosmetic raw material; skin-conditioning peptide used in skin-care and eye-area formulations.

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

SECTION 2 – HAZARD IDENTIFICATION

Signal Word: Warning

Potential Hazards:

May be harmful if swallowed. May cause skin and eye irritation. Dust may cause respiratory irritation.

Precautions: Avoid breathing dust. Avoid contact with eyes and prolonged skin contact. Wear suitable gloves and eye protection. Wash thoroughly after handling.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Dipeptide-2 (Val-Trp)	24587-37-9	≥98%

SECTION 4 – FIRST-AID MEASURES

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

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

Inhalation: Move person to fresh air. Seek medical attention if coughing, irritation or breathing discomfort persists.

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

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂) or appropriate foam.

Specific Hazards: Thermal decomposition may produce carbon oxides and nitrogen-containing decomposition products.

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid generating or breathing dust.

Wear suitable gloves, protective clothing and eye protection. Carefully sweep or collect spilled powder into a suitable closed container.

Avoid uncontrolled release into drains or waterways. Clean the affected area thoroughly after material has been collected.

SECTION 7 – HANDLING AND STORAGE

Handle using good industrial hygiene practices. Avoid creating airborne dust and avoid direct contact with eyes and skin.

Storage: Keep container tightly sealed in a dark, cool and dry place.

For your supplied material, the COA storage specification is:

-20°C to 8°C

Published references likewise recommend cold storage; for example, Cayman lists -20°C, while another reference gives -20°C for longer-term powder storage.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation and minimize dust formation.

Eye Protection: Safety glasses or goggles.

Hand Protection: Suitable protective gloves.

Skin Protection: Laboratory coat or suitable protective clothing.

Respiratory Protection: Normally not required when handled with adequate ventilation and minimal dust. Use suitable particulate respiratory protection where significant airborne powder may occur.

Hygiene: Wash hands thoroughly after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Appearance	White to off-white powder
Physical State	Solid / Powder
Odor	Characteristic / practically odorless
Molecular Formula	$C_{16}H_{21}N_3O_3$
Molecular Weight	303.36 g/mol
Purity (HPLC)	99.44%
Assay	99.3%
Water (K.F.)	6.04%
Loss on Drying	2.5%
Residue on Ignition	0.04%
Acetic Acid	2.32%
Heavy Metals	≤10 ppm / Complies
Solubility	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable when stored under recommended conditions.

Conditions to Avoid: Excessive heat, moisture, prolonged light exposure and conditions that may degrade peptide materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition: Carbon oxides and nitrogen-containing compounds may form during thermal decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Complete toxicological information for cosmetic-grade Dipeptide-2 powder is limited.

Potential exposure routes include inhalation of dust, ingestion, eye contact and skin contact.

Handle the concentrated raw material to minimize exposure. Finished cosmetic-product safety should be assessed according to the concentration used and intended application.

SECTION 12 – ECOLOGICAL INFORMATION

Comprehensive ecological data are not available.

Avoid uncontrolled release of concentrated raw material into drains, soil or waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

Do not discharge bulk material directly into drains or waterways.

SECTION 14 – TRANSPORT INFORMATION

No UN transport classification is assigned in the commercial safety information reviewed; one supplier lists UN number, transport class and packing group as N/A.

Transport requirements should nevertheless be confirmed for the specific packaged product and destination.

SECTION 15 – REGULATORY INFORMATION

INCI: Dipeptide-2

CAS: 24587-37-9

Function: Skin Conditioning

Current chemical references identify Dipeptide-2 as a skin-conditioning cosmetic ingredient.

The manufacturer of the finished cosmetic is responsible for determining permitted concentration, finished-product safety and compliance with regulations applicable in the intended market.

SECTION 16 – OTHER INFORMATION

Product: Dipeptide-2

Storage: Keep sealed in a dark, cool and dry place at -20°C to 8°C.

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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