

Material Safety Data Sheet

Betaine Anhydrous Powder

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Betaine Anhydrous

INCI Name: Betaine

Synonym: Trimethyl glycine (TMG), Glycine Betaine

CAS No.: 107-43-7

Chemical Formula: $C_5H_{11}NO_2$

Molecular Weight: 117.15 g/mol

Product Type: Cosmetic Raw Material

Appearance: White crystalline powder

Assay: $\geq 98\%$

Recommended Uses: Raw material used in skin-care, hair-care, cleansing and other cosmetic formulations.

Restrictions on Use: For professional formulation/manufacturing use. Use according to the requirements applicable to the finished product.

Origin: USA

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

Based on available information, Betaine is not generally classified as hazardous under GHS criteria.

Signal Word: Not required

Hazard Pictograms: None required

Hazard Statements: Not classified as hazardous.

Potential Effects: Dust may cause temporary mechanical irritation to the eyes, respiratory tract or sensitive skin. Avoid generating or inhaling excessive dust.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Betaine (Trimethyl glycine)	107-43-7	≥98%

SECTION 4 – FIRST-AID MEASURES

Eye Contact: Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing if necessary.

Inhalation: Move affected person to fresh air. Obtain medical attention if respiratory irritation or discomfort persists.

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

SECTION 5 – FIRE-FIGHTING MEASURES

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

Specific Hazards: Organic dust may present a combustible-dust hazard when finely dispersed in air at sufficient concentrations. Thermal decomposition may produce carbon oxides and nitrogen-containing compounds.

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid generating airborne dust. Wear appropriate personal protective equipment.

Sweep or vacuum spilled material using methods that minimize dust generation. Place recovered material in a suitable closed container for disposal or recovery.

Prevent large quantities from entering drains or waterways.

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid breathing dust and contact with eyes. Maintain good industrial hygiene. Wash hands after handling.

Storage: Store in a tightly closed container in a cool, dry, well-ventilated location. Protect from moisture, excessive heat and direct sunlight.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No specific occupational exposure limit established for Betaine.

Engineering Controls: Provide adequate ventilation. Local exhaust ventilation may be appropriate where significant dust is generated.

Eye Protection: Safety glasses or goggles recommended during bulk handling.

Hand Protection: Suitable protective gloves recommended for prolonged or repeated handling.

Respiratory Protection: Normally not required under adequately ventilated conditions. Appropriate particulate protection should be considered where significant airborne dust is generated.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Solid
Appearance	White crystalline powder
Odor	Essentially odorless / characteristic
Molecular Formula	$C_5H_{11}NO_2$
Molecular Weight	117.15 g/mol
Solubility in Water	Highly soluble
Flammability	Not classified as flammable
pH	Not established for the neat solid
Relative Density	Data not established
Vapor Pressure	Not applicable / negligible
Partition Coefficient	Data not established

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No hazardous reaction expected under normal conditions of use.

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Excessive heat, moisture and excessive dust generation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and nitrogen-containing decomposition products may be generated during combustion or severe thermal decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Betaine is generally considered to have low acute toxicity based on available information.

Eye Contact: Dust may cause mechanical irritation.

Skin Contact: Prolonged exposure may cause mild irritation in sensitive individuals.

Inhalation: Excessive dust may irritate the respiratory tract.

Ingestion: Large quantities may cause gastrointestinal discomfort.

No product-specific conclusion regarding carcinogenicity, mutagenicity or reproductive toxicity should be made without supporting test data.

SECTION 12 – ECOLOGICAL INFORMATION

No complete product-specific ecological dataset is provided.

Avoid uncontrolled release of large quantities into the environment. The substance is water soluble.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of material and contaminated packaging in accordance with applicable federal, provincial/state and local regulations.

Do not discharge large quantities directly into drains, surface water or the environment.

SECTION 14 – TRANSPORT INFORMATION

UN Number: Not assigned

UN Proper Shipping Name: Not regulated as dangerous goods

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Generally, not regulated as dangerous goods for routine transport. Carrier and jurisdiction-specific requirements should be verified before shipment.

SECTION 15 – REGULATORY INFORMATION

This SDS is intended to communicate general safety information for Betaine Anhydrous used as a raw material. Regulatory status should be confirmed for the intended market, application and finished product.

SECTION 16 – OTHER INFORMATION

Product: Betaine Anhydrous Powder

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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