

## Material Safety Data Sheet (MSDS)

### Beta-Sitosterol

Revision Date: 24-September-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Beta-Sitosterol
- **Chemical Formula:** C<sub>29</sub>H<sub>50</sub>O
- **CAS No:** 83-46-5
- **Synonyms:** (3 $\beta$ )-Stigmast-5-en-3-ol; Stigmast-5-en-3 $\beta$ -ol
- **Recommended Use:** Nutraceuticals, pharmaceuticals, food supplements, cosmetics.

### Section 2: Hazards Identification

- **Classification (GHS):** Not classified as hazardous under normal conditions.
- **Signal Word:** None
- **Hazard Statements:**
  - May cause mild skin or eye irritation in sensitive individuals.
  - Ingestion in large amounts may cause gastrointestinal upset.
- **Precautionary Statements:**
  - Avoid dust formation and inhalation.
  - Use personal protective equipment if handling bulk powder.

## Section 3: Composition / Information on Ingredients

- **Concentration:**  $\geq 95\%$

## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if discomfort occurs.
- **Skin Contact:** Wash with soap and water. If irritation develops, get medical advice.
- **Eye Contact:** Rinse thoroughly with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. If large quantities are ingested, seek medical advice.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Combustion may produce carbon oxides.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation. Use protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Sweep up or vacuum without generating dust. Collect in suitable container for disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid dust formation. Handle in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry place away from light and moisture.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, gloves, dust mask if handling powder.

## Section 9: Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder
- **Odor:** Odorless or faint characteristic odor
- **Melting Point:** 136–140 °C
- **Solubility:** Insoluble in water; soluble in ethanol, chloroform, and other organic solvents
- **Molecular Weight:** 414.71 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation (dust), ingestion, skin and eye contact.
- **Acute Effects:** May cause mild irritation to skin, eyes, and respiratory tract.
- **Chronic Effects:** Generally regarded as safe; prolonged excessive ingestion may affect absorption of certain nutrients.

## Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be harmful in the environment.
- **Persistence and Degradability:** Biodegradable.
- **Bioaccumulative Potential:** Low potential.

## Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations.

## Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Beta-Sitosterol
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- Not classified as hazardous substance under GHS.

## Section 16: Other Information

**Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni Chemicals** disclaims liability for damage resulting from handling or contact.