

Phytosterol

1. Identification

Product	Phytosterol
CAS No. (component)	83-46-5 (beta-sitosterol component)
Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone	+86-21-54265599
Email	sales@zxchem.com.cn
Website	www.zxchem.com
Emergency contact	ZXCHEM office telephone above, office hours in China (UTC+8). For urgent medical assistance, contact local emergency services.

2. Hazard Identification

Fine powder may cause mechanical eye and respiratory irritation. Organic powders may present combustible dust hazards when dispersed in air near an ignition source. Avoid breathing dust; use suitable eye protection and control airborne powder during transfer.

Classification	Not classified as hazardous under available GHS criteria, based on available information.
Signal word	None required
Hazard pictograms	None required

3. Composition / Information on Ingredients

Material	Plant sterol mixture; white to off-white fine powder
Beta-sitosterol	CAS 83-46-5; typical 41.22%
Campesterol	CAS 474-62-4; typical 24.34%
Stigmasterol	CAS 83-48-7; typical 28.14%
Brassicasterol	CAS 474-67-9; typical 2.69%
Composition basis	Total phytosterols 96.39% in the stated technical specification. These are typical analytical values, not guaranteed percentages for every batch; the remaining fraction is not characterized by this specification. Refer to the batch COA.

4. First-Aid Measures

Inhalation: Move to fresh air. Seek medical advice if respiratory symptoms persist.

Skin: Wash with water and soap; remove contaminated clothing. Eyes: Rinse cautiously with water for several minutes; remove contact lenses if easy to do and continue rinsing. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Seek medical advice if discomfort develops.

5. Fire-Fighting Measures

Use water spray, foam, dry chemical or carbon dioxide. Organic powder can burn; dispersed dust may form combustible dust clouds near ignition sources.

Combustion may produce carbon monoxide, carbon dioxide and irritating smoke. Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid creating airborne dust. Use vacuum equipment suitable for fine powders or gentle sweeping methods.
- Wear eye protection and dust mask/particulate respirator where airborne powder may form.
- Prevent large quantities from entering drains or surface water.
- Collect in clean labelled containers if uncontaminated. Dispose of contaminated material according to local rules.

7. Handling and Storage

Avoid generating dust during transfer, weighing and blending. Keep away from ignition sources and use suitable dust collection where needed.

Store in tightly closed original packaging in a cool, dry, well-ventilated place. Protect from sunlight, moisture and heat; keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

- Engineering controls: General ventilation is normally sufficient; use local exhaust for dusty operations.
- Respiratory protection: Use approved particulate/dust mask or respirator when airborne powder is generated.
- Eye protection: Safety glasses or goggles recommended during repacking or blending.
- Hand protection: Clean protective gloves recommended to maintain hygiene and avoid prolonged contact.
- Hygiene measures: Wash hands after handling. Do not eat, drink or smoke in processing areas.

9. Physical and Chemical Properties

Appearance	White to off white fine powder
Total phytosterols	96.39% typical analytical value
Physical data scope	Blend-specific pH, melting range, flash point and solubility test data are not provided in the available supply specification. Pure-component physical values are not assigned to the complete blend.

10. Stability and Reactivity

Stable under the recommended storage conditions. Avoid high heat, moisture, ignition sources and strong oxidizing agents.

Hazardous combustion/decomposition products may include carbon oxides and irritating smoke.

11. Toxicological Information

Dust may irritate the respiratory tract and eyes. Sensitive individuals may experience reactions to the material. Control occupational exposure through ventilation, appropriate protective equipment and good handling hygiene. Product-specific acute and repeated-exposure test data are not provided.

12. Ecological Information

Avoid uncontrolled release to the environment. Prevent large quantities from entering drains or surface water. Product-specific ecotoxicity, persistence and bioaccumulation test data are not provided.

13. Disposal Considerations

Collect contaminated material and dispose of it through an appropriate waste contractor in accordance with local regulations. Do not discharge to drains. Empty packaging may retain powder; avoid dust and ignition during handling.

14. Transport Information

Keep packaging closed and protected from moisture, contamination, heat and physical damage during transport.

Transport status	Not regulated as dangerous goods, based on available product transport information.
UN number	Not regulated
Proper shipping name	Not regulated
Transport hazard class	Not regulated
Packing group	Not applicable

15. Regulatory Information

Product identity	Phytosterol
CAS No. (component)	83-46-5 (beta-sitosterol component)
GHS classification	Not classified as hazardous on the available product information.

16. Other Information

Safety information for the dry plant sterol blend described in Sections 1 and 3. The stated composition values are typical analytical data; component identifiers are distinguished from the blend identity. This document does not certify the safety of a different solvent-containing formulation.

Revision	2026.2
Revision date	2026-10-07
Prepared by	ZXCHEM

Supplier Contact

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