

1. - Identification of the substance/preparation and of the company/undertaking**1.1- Substance Identification:****Trade name:** Vitasterol® S**Chemical name:** Mixed Phytosterols**1.2. - Uses of the substance:**

“Vitasterol® S” is widely used in food preparations or supplements as LDL cholesterol reducer. It is also used for cosmetics preparations for its emulsifying, stabilizing and emollient properties.

1.3. - Company identification:

VITAE NATURALS

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45614 Talavera de la Reina. Toledo. Spain.

Tel: +34 925 85 10 13

Fax: +34 925 85 10 21

www.vitaenaturals.comquality@vitaenaturals.com**1.4. - Emergency telephone:**

National Institute of Toxicology: +34 91 562 04 20.

2. - Hazards Identification.

Low hazard for usual industrial or commercial handling by trained personnel.

Caution: Avoid contact and inhalation.

3. - Composition/Information on ingredients**Components:** mixed Phytosterols

	CAS Reg N°	MF
Campesterol	474-62-4	C ₂₈ H ₄₈ O
Stigmasterol	83-48-7	C ₂₉ H ₄₈ O
Beta-Sitosterol	83-46-5	C ₂₉ H ₅₀ O
Beta-Sitostanol	84-45-4	C ₂₉ H ₅₂ O

4. - First-Aid Measures.

Inhalation: If symptomatic, move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Ingestion: Wash out mouth with water. Call a physician if it is necessary.

Eyes: The eyes should be washed out immediately with water. Assure adequate flushing of the eyes by separating the eyelids with fingers.

Skin: Flush skin with water for at least 15 minutes. Discard contaminated clothing and shoes.

5. - Fire-Fighting Measures.**Suitable extinguishing media:**

Water spray, Carbon dioxide, Dry chemical powder or appropriate foam.

Extinguishing media which must not be used for safety reasons:

Unknown

Special exposure hazards arising from the product itself, from combustion products or from resulting gases:

It emits toxic fumes under fire conditions.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus as well as protective clothing because water or foam may cause frothing and it is necessary to prevent contact with skin and eyes.

6. - Accidental release measures.**Personal precautions:**

Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to flow into drainage systems.

Methods of cleaning up:

Sweep up, place in a bag and hold for its disposal. Ventilate area and wash spill site after material pick up is complete. Avoid raising dust.

7. - Handling and Storage.**Handling:**

Wear appropriate respirator, gloves and safety goggles. Do not breathe dust. Avoid contact with eyes, skin and clothing.

Storage:

Keep in a tightly closed container. Store at ambient temperature and under dry conditions. Protect from contamination. Keep away from odorous and toxic substances. This product may be used in food.

8. - Exposure controls/Personal protection.**Exposure limits:**

Not established.

Components with specific control parameters:

None.

Personal protection:

Respiratory protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn.

Skin protection: Wear protective gloves and clean body-covering clothing.

Eye protection: Use chemical safety goggles. Have an eye wash fountain in the work area.

9. - Physical and Chemical Properties.

Appearance/Colour:	White, yellowish
Odour:	Slightly vegetable oil
pH:	not applicable
Melting point:	138 to 170°C
Flash point:	not applicable
Specific gravity (at 25 °C):	0.4 – 0.7
Vapor Pressure:	<0.001 mmHg at 20°C (68°F)
Vapor Density (Air=1):	not applicable
Evaporation rate:	not applicable
Solubility in water:	almost insoluble
Viscosity (60°C):	not applicable
Lower explosive limit:	not applicable
Upper explosive limit:	not applicable
Auto ignition temperature:	not available

10. - Stability and Reactivity.**Conditions to avoid:**

It is a stable product but it is better not to keep it in a heat or damp area.

Materials to avoid:

Strong oxidizing agents.

Hazardous combustion or decomposition products:

Carbon monoxide, carbon dioxide. Hazardous polymerization will not occur.

11. - Toxicological information.**Effects of exposure**

Inhalation: *May be harmful by inhalation and irritating to mucous membranes and upper respiratory tract.*

Ingestion: *May be harmful by ingestion.*

Skin: *May be harmful by skin absorption and may cause skin irritation.*

Eyes: *May cause eye irritation.*

12. - Ecological information.

This material has not been tested for environmental effects.

13. - Disposal considerations.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, state and local environmental regulations.

14. - Transport information.

This product does not constitute a hazardous substance in National/International road, rail, sea or air transport, and is not a dangerous good in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.

ADR=Agreement on Dangerous Goods by Road / RID = Regulations concerning the Intl Transport of Dangerous Goods by Rail

GGVS/GGVE - German Regulations concerning the transport of dangerous goods.

ICAO-TI/IATA-DGR= Air transport regulations of dangerous goods.

IMDG= International maritime Code of dangerous goods.

ADNR=European regulations concerning the carriage of dangerous goods on the Rhine

In case of additional transport information, contact VITAE NATURALS.

15. - Regulatory information.

Classification and labelling are according to Regulation 1272/2008/CE.

Mixed phytosterols have been pre-registered in accordance with REACH legislation (CE n° 1907/2006).

Vitasterol® S is considered as a Novel Food ingredient in compliance with European Regulation 258/97/EC.

In Europe, Phytosterols can be added in the food applications stated in the following regulations:

- *Commission Decision 2004/333/EC of 31 March 2004*
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- *Commission Decision 2004/335/EC of 31 March 2004*
- *Commission Decision 2004/336/EC of 31 March 2004*
- *Commission Decision 2004/845/EC of 12 November 2004*
- *Commission Decision 2006/58/EC of 24 January 2006*
- *Commission Decision 2007/343/EC of 15 May 2007*
- *Commission Decision 2008/36/EC of 10 January 2008*

Please, prior placing on the market products with phytosterols, consult the regulation of the country.

16. - Other information.

The above information is believed to be right but does not purport to be all exclusive and shall be used only as a guide. VITAE NATURALS shall not be held liable for any damage resulting from handling contact with the above product.

This MSDS is in compliance with Regulation 1907/2006/EC.