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Material Safety Data Sheet acc. REACH

Phytosterols, all grades

conform to Annex II (Requirements for the compilation of safety data sheets), Directive EU 2020/878

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Section 1 Identification of the substance/mixture and of the company

1.1 Product identifier Mixed Phytosterols

Trade Name	Phytosterols, all grades
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1.2 Relevant identified uses of the substance or mixture and uses advised against In food preparations or supplements as LDL cholesterol reducer; as antioxidant in food and cosmetics; as emulsifier and emollient in cosmetics.

1.3 Details of the supplier of the safety data sheet Gustav Parmentier GmbH
Eichendorffstrasse 37
D-60320 Frankfurt am Main
Phone: +49 (0)69 56 10 34
Fax: +49 (0)69 56 85 18
e-Mail: msds@parmentier.de

1.4 Emergency telephone number Giftinformationszentrum Mainz
Langenbeckstrasse 1
D-55131 Mainz
Phone: +49 (0)6131 19 24 0

Section 2 Hazards identification

2.1 Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements None

2.3 Other hazards No hazardous effects on health and environment known.

Section 3 Composition/information on ingredients

3.1 Substance Plant Sterols
CAS-No.: 949109-75-5
EINECS-No.: -



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Section 4 First aid measures

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|-----|---|--|
| 4.1 | Description of first aid measures | After eye and skin contact flush off with water.
After ingestion drink sufficient water. Consult a physician if feeling unwell.
After inhalation move affected person to fresh air. Consult a physician. |
| 4.2 | Most important symptoms and effects, both acute and delayed | No data available |
| 4.3 | Indication of any immediate medical attention and special treatment needed | If problems resist, consult a physician. |

Section 5 Firefighting measures

- | | | |
|-----|--|--|
| 5.1 | Extinguishing media | Foam, Carbon dioxide, Exinguishing powder. Water is not suitable as extinguishing media. |
| 5.2 | Special hazards arising from the substance or mixture | No data available |
| 5.3 | Advice for firefighters | Use air supplied equipment for fighting interior fires. |

Section 6 Accidental release measures

- | | | |
|-----|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid dust formation. Do not inhale vapors/ mist/ gas. |
| 6.2 | Environmental precautions | Keep away in larger quantities from bodies of water or sewage systems. |
| 6.3 | Methods and material for containment and cleaning up | Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal. |
| 6.4 | Reference to other sections | For disposal see section 13. |



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Section 7 Handling and storage

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|-----|---|--|
| 7.1 | Precautions for safe handling | Normal measures for preventive fire protection. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. |
| 7.3 | Specific end use(s) | No data available |

Section 8 Exposure controls/personal protection

- | | | |
|-----|---------------------------|--|
| 8.1 | Control parameters | Does not contain substances with maximum allowable concentrations. |
| 8.2 | Exposure controls | General industrial hygiene practice |

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--|---|
| a) Physical state: | Solid |
| b) Colour: | White-greyish |
| c) Odour: | Faint |
| d) Melting point/freezing point: | 139 - 141 °C |
| e) Boiling point or initial boiling point and boiling range: | Decomposition before ebullition |
| f) Flammability: | No data available |
| g) Lower and upper explosion limit: | Not applicable |
| h) Flash point: | Not applicable |
| i) Auto-ignition temperature: | Not applicable |
| j) Decomposition temperature: | Not applicable |
| k) pH: | No data available |
| l) Kinematic viscosity: | Not applicable |
| m) Solubility: | Insoluble in water; soluble in acetone and ethyl acetate. |
| n) Partition coefficient n-octanol/water (log value): | > 9.4 (40 °C) |
| o) Vapour pressure: | No data available |
| p) Density and/or relative density: | 1.05 g/ml (23 °C) |



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q) Relative vapour density:	0 Pa (25 °C)
r) Particle characteristics:	< 400 µm
9.2 Other information	None

Section 10 Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known.
10.4 Conditions to avoid	No hazardous reactions known.
10.5 Incompatible materials	Incompatible with strong oxidizing agents.
10.6 Hazardous decomposition products	No hazardous decomposition products known.

Section 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity:	LD50 (rat, oral) > 5 g/kg
b) Skin corrosion/irritation:	No skin corrosion or irritation.
c) Serious eye damage/irritation:	No eye corrosion or irritation.
d) Respiratory or skin sensitisation:	Causes no skin sensitisation. Effect on respiratory tract is unknown.
e) Germ cell mutagenicity:	No evidence of germ cell mutagenicity.
f) Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
g) Reproductive toxicity:	No evidence of reproductive toxicity.
h) STOT-single exposure:	No data available
i) STOT-repeated exposure:	No data available
j) Aspiration hazard:	No data available



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11.2 Information on other hazards

- | | | |
|--------|---------------------------------|-------------------|
| 11.2.1 | Endocrine disrupting properties | No data available |
| 11.2.2 | Other information | None |

Section 12 Ecological information

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|------|------------------------------------|--|
| 12.1 | Toxicity | No hazard identified |
| 12.2 | Persistence and degradability | 90-92% biodegradation was attained in 28 days in a reliable BODIS study. The substance is readily biodegradable. |
| 12.3 | Bioaccumulative potential | No data available |
| 12.4 | Mobility in soil | No data available |
| 12.5 | Results of PBT and vPvB assessment | No data available |
| 12.6 | Endocrine disrupting properties | No data available |
| 12.7 | Other adverse effects | No data available |
| 12.8 | Other information | None |

Section 13 Disposal considerations

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|------|-------------------------|---|
| 13.1 | Waste treatment methods | Remove mechanically. Burning or deposition. |
|------|-------------------------|---|

Section 14 Transport information

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|------|---|--|
| 14.1 | UN number | None |
| 14.2 | UN proper shipping name | None |
| 14.3 | Transport hazard class(es) | The product is not classified in ADR/IATA/IMGD/RID - guidelines. |
| 14.4 | Packing group | None |
| 14.5 | Environmental hazards | None |
| 14.6 | Special precautions for user | None |
| 14.7 | Maritime transport in bulk according to IMO instruments | None |



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Section 15 Regulatory information

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|------|---|--|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | None |
| 15.2 | Chemical safety assessment | No obligatory information on health and environmental protection |

Section 16 Other Information

INCI Name: PHYTOSTEROLS

For further product information please see: www.parmentier.de