

TECHNICAL DATASHEET

Cosphaderm® MultiMEG RSPO/MB

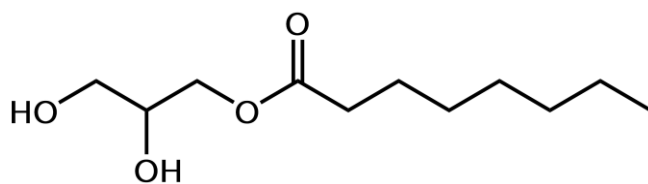
1.1 General information

Trade name:	Cosphaderm® MultiMEG RSPO/MB
Item no.:	01-009-xxxx
Supplier	Cosphatec GmbH Hopfenmarkt 33 20457 Hamburg Germany
Chemical name:	2,3-dihydroxypropyl octanoate, 1,2-Pentanediol, Reaction mass of 5,5'-Diallyl-2,2'-Dihydroxybiphenyl (Magnolol) and 3,5'-Diallyl-4,2'-Dihydroxybiphenyl (Honokiol)
INCI name:	Glyceryl Caprylate, Pentylene Glycol, Magnolia Officinalis Bark Extract
CAS No.:	26402-26-6, 5343-92-0, 947686-05-7
EINECS/ EC No.:	247-668-1, 226-285-3, 943-705-7
IECIC:	Glyceryl Caprylate, Pentylene Glycol, Magnolia Officinalis Bark Extract

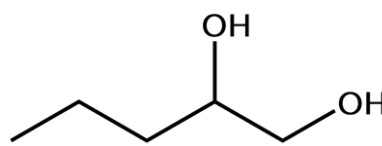
1.2 Product composition

INCI name	CAS No.	%
Glyceryl Caprylate	26402-26-6	25-50
Pentylene Glycol	5343-92-0	25-50
Magnolia Officinalis Bark Extract	947686-05-7	5-10

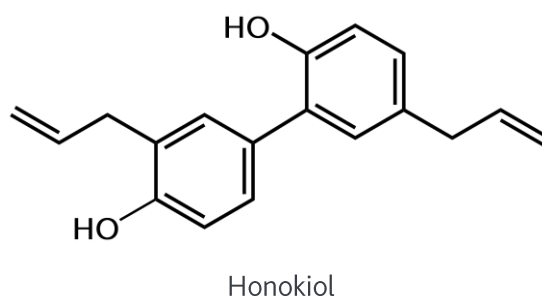
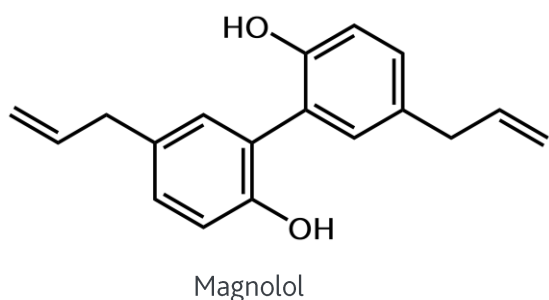
1.3 Chemical structure



Glyceryl Caprylate



Pentylene Glycol



1.4 Product short description

Cosphaderm® MultiMEG RSPO/MB, a multifunctional preparation, that has shown in various scientific studies excellent anti-microbial, anti-irritant, anti-acne and anti-cariogenic properties. It is originated completely from plant derived ingredients. In the Rancimat-test, the anti-oxidative activity was found to be very similar to the very efficient mixed Tocopherols. The MIC value for the bacteria test strains *Propionibacterium acnes*, *Staphylococcus epidermidis* (both acne) and *Streptococcus oralis*, *Streptococcus mutans* (both dental caries) was determined to be 9.8 µg/mL. Therefore, the preparation can be claimed as bacteriostatic regarding the mentioned organisms. Wetting and skin conditioning are well documented characteristics of Glycols. Cosphaderm® MultiMEG RSPO/MB combines the beneficial properties of each ingredient in one easy to apply raw material.

1.5 Application

Recommended concentration:	1.4 %
Conditions:	water dispersible (turbid solution) and soluble in oils, alcohols and diols
Hints:	avoid long term heating (> 30 min.) at temperatures > 80°C Method 1: add to the water phase and disperse it. Method 2: add to the oil phase but avoid long term heating. Method 3: add it to the final formulation.

2.1 Specified data analyzed per batch

Appearance:	clear, light yellowish viscous liquid (visual)
Refractive index:	1.449 – 1.469 (Refractometric)
Density:	0.98 – 1.02 g/cm ³ (Pycnometric)
Colour (Gardner Units):	max 5 (Lovibond Tintometer)

Glyceryl Caprylate: min 40 % (GC-FID)

3.1 Physical and chemical properties

Molecular formula:	Mixture of:	
	Glyceryl Caprylate:	C ₁₁ H ₂₂ O ₄
	Pentylene Glycol:	C ₅ H ₁₂ O ₂
	Magnolol:	C ₁₈ H ₁₈ O ₂
	Honokiol:	C ₁₈ H ₁₈ O ₂
Molecular weight:	Glyceryl Caprylate:	218.29 g/mol
	Pentylene Glycol:	104.2 g/mol
	Magnolol:	266.33 g/mol
	Honokiol:	266.33 g/mol
Appearance:	liquid (room temperature), Colour: max 5 (Gardner), clear light yellowish	
Odour:	characteristic	
Solubility:	water dispersible, soluble in oil, alcohols and diols	

3.2 Packing and Storage conditions

Packing sizes:	25 kg plastic containers
Storage conditions:	Should be stored in the air-tight original sealed container indoors between 15 and 25 °C. Low temperatures may lead to solidification (freezing) and may require that the product is gently warmed and agitated prior to use. Excessive heat may cause accelerated degradation.
Shelf life:	At least 18 month if unopened and stored under proper conditions

4.1 Regulatory compliance

The product contains the specified ingredients (INCI) Glyceryl Caprylate, Pentylene Glycol, Magnolia Officinalis Bark Extract.

Glyceryl Caprylate (CAS: 26402-26-6) is included/listed in the following international inventories:

EINECS (Europe); TCSI (Taiwan); ENCS (Japan); TSCA (USA); NDSL (Canada); KECI (Korea); IECSC (China); AICS (Australia); NZIoC (New Zealand); PICCS (Philippines)

Pentylene Glycol (CAS: 5343-92-0) is included/listed in the following international inventories:

EINECS (Europe); TCSI (Taiwan); ENCS (Japan); TSCA (USA); NDSL (Canada); KECI (Korea); IECSC (China); AICS (Australia); PICCS (Philippines); NZIoC (New Zealand)

Honokiol and Magnolol (main components; CAS: 528-43-8, 35354-74-6) are included/listed in the following international inventories:

TCSI (Taiwan); IECSC (China)

4.2 Regulatory status for cosmetic application

Product complies with Regulation (EU) No. 1223/2009 in all the defined requirements.

4.3 Additives

Product contains only the specified ingredients. No other substances like preservatives, antioxidants, fragrances, colorants or other are added.

4.4 Impurities

	Not expected*	Present [#]	ppm
BSE/TSE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Dioxin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Formaldehyde	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gluten	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Lactose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pesticides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Phthalates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Residual solvents	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ethanol: < 100
Heavy metals	ppm		
	total	≤ 10	
	Arsenic (As) ⁺	< 0.5	
	Antimony (Sb) ⁺	< 0.5	

	Lead (Pb) ⁺	< 0.5
	Cadmium (Cd) ⁺	< 0.1
	Mercury (Hg) ⁺	<0.1

4.5 Allergens

Product does not contain any of the 26 allergenic flavors or fragrances listed in Regulation (EC) No. 1223/2009 Annex III.

4.6 VOC

Product does not contain any additional volatile organic compound.

4.7 CMR

Product is not rated as CMR (category 1A, 1B and 2) and does not contain any ingredient rated as CMR according to Regulation (EC) No. 1223/2009 in association with Regulation (EC) No. 1272/2008/EC.

4.8 SVHC

Product is neither listed as SVHC substances nor contains any material with is listed as SVHC substance.

4.9 Nanomaterial

Product is not embraced by article 16 Regulation (EC) No. 1223/2009.

4.10 Animal testing

The Cosphatec GmbH has not conducted any animal testing for cosmetic purpose since March 11th 2009.

4.11 Irradiation

Product has not been irradiated in any step of the entire production process.

4.12 Origin

Substances (INCI name)	Synthetic	Vegetal	Biotechnology
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Glyceryl Caprylate	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: Vegetable oil Origin: Europe, South Asia	<input type="checkbox"/> Microorganism used:
Pentylene Glycol	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: Sugarcane or corn Plant part used: Sugarcane bagasse or corn cobs Origin: South Africa or China	<input type="checkbox"/> Microorganism used:
Magnolia Officinalis Bark Extract	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: <i>Magnolia Officinalis</i> Plant part used: Bark Origin: China	<input type="checkbox"/> Microorganism used:

4.13 GMO

The product is not subject to labelling according to Regulations (EC) No. 1829/2003 and 1830/2003.

4.14 Certifications

COSMOS

ECOCERT

RSPO MB (product contains 30 % Palm Kernel Oil derived raw materials)

Other Information

This information and our technical application advice are given to the best of our knowledge, but they are for information purposes only and given without responsibility. The advice doesn't exempt you from doing your own testing, particularly with regard to the qualification of our products for its intended processes and purposes. Application, use and handling of our products take place out of our control and are solely your responsibility. The sale of our products occurs according to our current general sales terms and delivery conditions.

* not expected to be present due to raw materials, production process and used equipment. Not regularly analysed.

#expected to be present due to raw materials, production process and used equipment. Periodically analysed.

+analysis results of a representative batch