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Cosphatec

TECHNICAL DATASHEET

COSPHADERM® PROPANEDIOL NATURAL RSPO MB

1.1 GENERAL INFORMATION

Trade name:	Cosphaderm® Propanediol natural RSPO MB
Item No.:	01-012-xxxx
Supplier:	Cosphatec GmbH Hopfenmarkt 33 20457 Hamburg Germany
Chemical name:	1,3-Propanediol
Other names:	1,3-Dihydroxypropane, 1,3-Propylenediol, Propane-1,3-diol, Trimethylene Glycol
INCI name:	Propanediol
CAS No.:	504-63-2
EINECS/ EC No.:	207-997-3
IECIC:	Propanediol

1.2 PRODUCT COMPOSITION

INCI name	CAS No.
Propanediol	504-63-2

1.3 CHEMICAL STRUCTURE



1.4 PRODUCT SHORT DESCRIPTION

Cosphaderm® Propanediol natural RSPO MB is a pure, transparent and colourless diol. Its polar character allows unlimited solubility in water. This property is strongly related to its cosmetic use as moisturizer and humectant. It can also be applied as an emollient or solvent. Produced by fermentation of natural glycerol and used as replacement for Propylene Glycol, it is an ideal solution for creating formulations without petrochemical ingredients. At the same time, it can help to protect a formulation from uncontrolled microbial growth by boosting the efficiency of the preservative system. It is recommended to use Cosphaderm® Propanediol natural RSPO MB for comprehensive antimicrobial protection of your formulation especially in combination with other Cosphaderm® Multifunctionals.

1.5 APPLICATION

Recommended concentration:	1.0 – 5.0 %
Conditions:	water soluble
Hints:	add recommended concentration to the water phase of your formulation

2.1 SPECIFIED DATA ANALYZED PER BATCH

Appearance:	clear, colourless liquid	visual
Purity:	min. 99.5 [A]%	TM C-004
Water:	max. 0.5 %	TM B-003
Colour (Hazen):	max. 10	TM A-016
Density:	1.040 – 1.060 g/cm^3	TM A-003
Refractive index:	1.425 – 1.445	TM A-001

3.1 PHYSICAL AND CHEMICAL PROPERTIES

Molecular formula:	$C_3H_8O_2$
Molecular weight:	76.10 g/mol
Appearance:	colourless viscous liquid

Odour:	odourless, very slightly alcoholic
Melting point:	-27 °C
Boiling point:	210 – 211 °C
Flash point:	131 °C
Solubility:	completely water miscible

3.2 PACKING AND STORAGE CONDITIONS

Packing sizes:	25 kg cans and 200 kg drums
Storage conditions:	Store in the air-tight original sealed containers protected from direct sunlight, moisture and heat at ambient temperature (15 – 25 °C). Brief deviation from the storage temperature e.g., during transport does not impair product quality or shelf life.
Shelf life:	Unopened under proper conditions 24 months

4.1 REGULATORY COMPLIANCE

Propanediol (CAS: 504-63-2) is included/listed in the following international inventories:

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

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, colourants or other are added.

4.4 IMPURITIES

	Not expected*	Present#	ppm
BSE/TSE	☒	☐	
Dioxin	☒	☐	
Formaldehyde	☒	☐	
Gluten	☒	☐	
Lactose	☒	☐	
Pesticides	☒	☐	
Phthalates	☒	☐	
Residual solvents	☒	☐	

Heavy metals		ppm
	total	≤ 10
	Arsenic (As)	≤ 0.5
	Lead (Pb)	≤ 0.25
	Mercury (Hg)	≤ 0.1
	Cadmium (Cd)	≤ 0.25

4.5 ALLERGENS

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

4.6 VOC

Product does not contain any additional volatile organic compounds.

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 which 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
Propanediol	☐	☒	☒
		Name of the plant: Oil palm Plant part used: Fruits Origin: Malaysia; Indonesia	Microorganism used: *Klebsiella*

4.13 GMO

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

4.14 CERTIFICATIONS

COSMOS

RSPO MB (Product contains 100 % of Palm Oil derived raw materials)

Halal

NaTrue

4.15 ISO 16128

Natural Index, ISO 16128-2	Natural Origin Index, ISO 16128-2
0	1

The values have been assessed to the best of knowledge according to the ISO 16128-2.

OTHER INFORMATION

This information and our technical application advice regarding use and handling are given to the best of our knowledge, but they are for information purposes only. Cosphatec GmbH bears no responsibility for deviated use or handling of the products. Customers or manufacturers are not released from their responsibility to perform own testing particularly with regard to the qualification of our products for intended processes and purposes. 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.