Cosphatec

TECHNICAL DATASHEET

Cosphaderm® Dicapo

1.1 General information

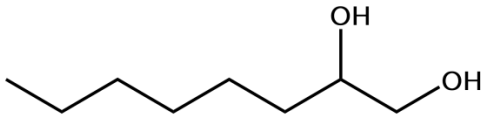
Trade name:	Cosphaderm® Dicapo
Item no.:	02-004-xxxx
Supplier:	Cosphatec GmbH Hopfenmarkt 33 20457 Hamburg Germany
Chemical name:	Octane-1,2-diol, 2,3-Dihydroxypropyl octanoate, Oxydipropanole
INCI name:	Caprylyl Glycol, Glyceryl Caprylate, Dipropylene Glycol
CAS No.:	1117-86-8, 26402-26-6, 25265-71-8
EINECS/ EC No.:	214-254-7, 247-668-1, 246-770-3
IECIC:	Caprylyl Glycol, Glyceryl Caprylate, Dipropylene Glycol

1.2 Product composition

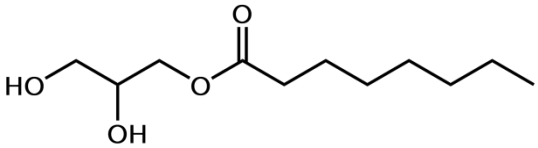
INCI name	CAS No.	%
Caprylyl Glycol	1117-86-8	> 50
Glyceryl Caprylate	26402-26-6	10-25
Dipropylene Glycol	25265-71-8	5-10

1.3 Chemical structure

Caprylyl Glycol



Glyceryl Caprylate



1.4 Product short description

Cosphaderm® Dicapo is a preparation with many useful functions for the intended use in cosmetic formulations. Caprylyl glycol, as a member of the glycol family, is an emollient with humectant abilities and skin conditioning as well as hair conditioning properties. Dipropylene glycol works as good solvent with masking, perfuming and viscosity controlling effects. Glyceryl Caprylate is a high purity monoester of glycerine and caprylic acid. Beside its main action as emollient and emulsifier, it has also moisturizing, wetting and re-fatting properties. All three substances have one important thing in common - a significant antimicrobial effect. The combination of those enables a comprehensive protection for all kinds of formulations against bacteria, yeasts and molds in a broad pH-range (3.5–7.0).

1.5 Application

Recommended concentration:	0.7 % (single use as alternative preservative)
Conditions:	~soluble in alcohol and fats, dispersible in water
Hints:	Method 1: add recommended concentration to the water phase of your formulation
	Method 2: add recommended concentration to the fat phase of your formulation
	Method 3: add recommended concentration to the final formulation.

2.1 Specified data analyzed per batch

Appearance:	clear, colourless viscous liquid (visual). Please note: In exceptional cases this product can solidify and in a waxy, snow-like appearance (Melting point ~ 20° C).
Refractive index:	1.435 – 1.455 (Refractometric)
Density:	0.93 – 0.97 (Oscillating U-Tube)
Caprylyl Glycol:	min 70 % (GC-MS)
Glyceryl Caprylate:	min 9 % (GC-MS)

3.1 Physical and chemical properties

Molecular formula:	$C_8H_{18}O_2$ (Caprylyl Glycol), $C_6H_{14}O_3$ (Dipropylene Glycol) $C_{11}H_{22}O_4$ (Glyceryl Caprylate)
Molecular weight:	146.2 g/mol (Caprylyl Glycol), 134.2 g/mol (Dipropylene Glycol), 204.3 g/mol (Phenylpropanol)
Appearance:	clear colourless liquid
Odour:	characteristic
pH:	~ 6.0
Solubility:	~soluble in alcohol and fats, dispersible in water

3.2 Packing and Storage conditions

Packing sizes:	25 kg plastic containers and 200 kg in 220 l drums
Storage conditions:	The product should be stored in the air-tight original sealed container protected from direct sunlight, moisture and heat. Low temperatures may lead to solidification (freezing) and may require warming and agitation before use. Melting point of the product is at about 20° C. Depending on the combination of conditions the product can be present in normal viscous liquid or partly to fully solidified wax below this temperature. Freezing/melting does not influence the properties or efficacy of the product.
Shelf life:	At least 36 months if unopened and stored under proper conditions

4.1 Regulatory compliance

Caprylyl Glycol (CAS: 1117-86-8), Glyceryl Caprylate (CAS: 26402-26-6) and Dipropylene Glycol (CAS: 25265-71-8) are included/listed in the following international inventories:

EINECS (Europe); TCSI (Taiwan); ENCS (Japan); TSCA (USA); DSL (Canada); KECI (Korea); IECSC (China); AICS (Australia); 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, colorants or other are added.

4.4 Impurities

	Not expected*	Present#	ppm
BSE/TSE	☒	☐	
Dioxin	☒	☐	
Formaldehyde	☒	☐	
Gluten	☒	☐	
Lactose	☒	☐	
Pesticides	☒	☐	
Phthalates	☒	☐	
Residual solvents	☐	☒	Ethanol: ≤100 Isobutyl acetate: ≤100 Formic Acid: ≤1000
Heavy metals		ppm	
	total	≤ 10	
	Arsenic (As)+	≤ 0.5	
	Lead (Pb)+	≤ 0.5	

	Mercury (Hg)⁺	≤ 0.1
	Cadmium (Cd)⁺	≤ 0.1
	Antimony (Sb)⁺	≤ 0.5

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 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 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
Caprylyl Glycol	☒	☐ Name of the plant: Origin:	☐ Microorganism used:
Glyceryl Caprylate	☐	☒ Name of the plant: Vegetable oil Origin: Europe, South Asia	☐ Microorganism used:
Dipropylene Glycol	☒	☐ Name of the plant: Origin:	☐ Microorganism used:

4.13 GMO

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

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