

TECHNICAL DATASHEET

Cosphaderm® Sodium LAAS

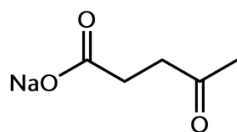
1.1 General information

Trade name:	Cosphaderm® Sodium LAAS	
Item no.:	01-015-xxxx	
Supplier:	Cosphatec GmbH Hopfenmarkt 33 20457 Hamburg Germany	
Chemical name:	Sodium 4-Oxovalerate, Sodium 4-Methoxybenzoate	
INCI name:	Sodium Levulinate, Sodium Anisate	
CAS No.:	Sodium Levulinate	19856-23-6
	Sodium Anisate	536-45-8
EINECS/ EC No.:	Sodium Levulinate	243-378-4
	Sodium Anisate	208-634-1

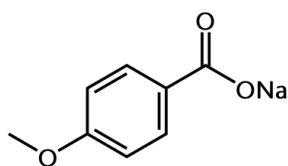
1.2 Product composition

INCI name	CAS No.	% (FDA-key)
Sodium Levulinate	19856-23-6	≥ 50 (A)
Sodium Anisate	536-45-8	25-50 (B)

1.3 Chemical structure



Sodium Levulinate



Sodium Anisate

1.4 Product short description

Cosphaderm® Sodium LAAS is a white powder comprising the solid mixture of Sodium Levulinate and Sodium Anisate. This blend displays skin conditioning and masking properties, as well as a broad antimicrobial effectiveness, making it an outstanding natural alternative preservative.

The corresponding acids of both salts show a strong combined antimicrobial efficiency against bacteria, yeasts and moulds. The lower the pH value of the final formulation, the more the balance between salts and acids is shifted to the latter. Thus, it is essential to consider the pH of the formulation when using Cosphaderm® Sodium LAAS. Application within a pH range from 5.0 – 6.0 is possible, though 5.5 is ideal. Below a pH of 5.0, precipitation can occur, while above 6.0 the antimicrobial activity is diminished.

1.5 Application

Recommended concentration:	1.0 % (complete antimicrobial protection)
Conditions:	water soluble
Hints:	Add recommended concentration to the water phase of your formulation. Reduce the pH value at the end of your formulation to 5.0 – 6.0, ideally 5.5.

2.1 Specified data analyzed per batch

Appearance:	White to slightly yellowish powder
Odour:	None to sweet flowery (organoleptic)
Solubility in Water:	min. 100 g/L
pH (1.0% in Water):	6.0 – 8.0
Loss on drying:	max 5.0 %

2.1 Specified data analyzed periodically

Heavy Metals:	max 10 ppm	
Microbiological Data:	Total Aerobic Count	max 100 cfu/g
	Total Yeasts and Moulds	max 50 cfu/g
Sum of Actives (dry basis)	min 98%	

3.1 Physical and chemical properties

Molecular formula:	C ₅ H ₇ NaO ₃ (Sodium Levulinate), C ₈ H ₇ NaO ₃ (Sodium Anisate)
Molecular weight:	138.1 g/mol (Sodium Levulinate), 174.13 g/mol (Sodium Anisate)
Appearance:	white to slightly yellowish powder
Odour:	characteristic
Solubility:	water soluble

3.2 Packing and Storage conditions

Packing sizes:	20 kg drum
Storage conditions:	Product is hygroscopic, keep container tightly closed and dry in a cool, well-ventilated place.
Shelf life:	24 months, unopened and stored under proper conditions

4.1 Regulatory compliance

The product contains the specified ingredients Sodium Levulinate, Sodium Anisate.

Sodium Levulinate (CAS: 19856-23-6) is included/listed in the following international inventories: EINECS (Europe), DSL (Canada); TCSI (Taiwan); NZioC (New Zealand); IECSC (China).

Sodium Anisate (CAS: 536-45-8) is included/listed in the following international inventories: EINECS (Europe), NIoZ (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	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Heavy metals	ppm		
	total	≤ 10	
	Pb	≤ 1	
	As	≤ 1	

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 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
Sodium Anisate	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: Star anise (<i>Illicum Verum</i>) Plant part used: Branches, leaves and fruits Origin: China	<input type="checkbox"/> Microorganism used:
Sodium Levulinate	<input type="checkbox"/>	<input checked="" type="checkbox"/> Levulinic Acid neutralized by the presence of NaOH Levulinic Acid: Name of the plant: Sugar cane 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

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.