

COSMACOL ESI

Technical Data Sheet No. 5004 – December 2015



sasol

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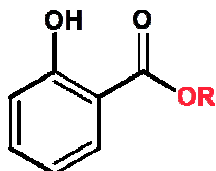
Tellerini s.p.a.

Via Bonazzi, 36
40013 Castel Maggiore (BO)
Tel: +39 051 6322111
Fax: +39 051 715380
sicurezza@tellerini.it
www.tellerini.it

Product Description

COSMACOL ESI is the salicylic ester of ISALCHEM 123 alcohols.

It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



R = C₁₂H₂₅ - C₁₃H₂₇ (primary mono-branched)

CAS registry no. 19666-16-1
EINECS no. 243-214-1
INCI TRIDECYL SALICYLATE

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 20°C	Visual	-	Clear liquid
√ Esters purity	RCM 1111	% mass	≥ 90
√ Free Alcohol	RCM 1111	% mass	≤ 10
√ Acid number	RCM 3817	mg KOH / g	≤ 3,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,5
√ Colour	RCM 3607	APHA	≤ 70

√ value reported on inspection certificate.

¹ specification No. 8930 rev. 2 of November 19th 2002.

Additional Properties

Property	Test Method	Unit	Typical Value
HLB required	Calculated	-	10
Refractive Index @ 20°C	ASTM D1218	-	1,453
Iodine Number	ASTM D5768	g/100g	< 2
Pour point	ASTM D97	°C	< -58
Viscosity at 20°C	ASTM D445 / ASTM D7042	cSt	19
Density at 20°C	ASTM D7042 / ASTM D4052	kg/m ³	971
Flash point	ASTM D 93	°C	> 125

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.

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Further information

Heavy metal

Arsenic (As) less than 1 mg/kg	Cadmium (Cd) less than 1 mg/kg
Cobalt (Co) less than 1 mg/kg	Chromium (Cr) less than 1 mg/kg
Copper (Cu) less than 1 mg/kg	Iron (Fe) less than 2 mg/kg
Manganese (Mn) less than 1 mg/kg	Nickel (Ni) less than 1 mg/kg
Lead (Pb) less than 1 mg/kg	Tin (Sn) less than 1 mg/kg
Strontium (Sr) less than 1 mg/kg	Zinc (Zn) less than 1mg/kg

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

Preservative

COSMACOL ESI does not contain any preservative. COSMACOL ESI is not susceptible to microbial growth because of absence water content.

Property	Test Method	Unit	Typical Value
Total Aerobic Microbial Count	Eu.Ph. 5.1.4	CFU/g	< 100
Total Yeasts/Moulds Count	Eu.Ph. 5.1.4	CFU/g	< 10

Microbiological control test is periodically done; data given here have to be considered as typical.

Antioxidants

COSMACOL ESI does not contain any antioxidant.

Pesticides

COSMACOL ESI does not contain any pesticide.

Product origin

COSMACOL ESI is manufactured from following raw materials:

- Alcohols C₁₂ – C₁₃ mono-branched with synthetic origin
- Salicylic acid with synthetic origin

Main Applications

COSMACOL ESI is a polar emollient with very light skin feeling.

In hair care formulations COSMACOL ESI is used to improve combing and anti-electrostatic effects, moreover in combination with anti-dandruff agents COSMACOL ESI improves their effect.

COSMACOL ESI has keratolytic effect, it is used as pore cleanser in skin care formulations.



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Handling and Storage

It is suggested to keep COSMACOL ESI at temperature below 30°C, it is preferable to protect from heating and moisture sources in order to minimise hydrolysis phenomena.

COSMACOL ESI is a clear liquid at room temperature it becomes a solid wax at temperature lower than -58°C.

At room temperature COSMACOL ESI is not water soluble.

Shelf-life is 24 months from production date for product in its original and sealed packaging.

Packaging

COSMACOL ESI is generally supplied in drums, details on available packaging can be obtained from sales department.

Data regarding safety, transport classes, toxicology and biodegradability of the product can be obtained from the corresponding material safety data sheet.

Sasol Italy S.p.A.

Headquarters
Viale Forlanini, 23
20134 Milano, Italy
Phone +39-02 58453 1
Fax +39-02 58453 285

Technical Customer Support
Via E. Mattei, 4
26827 Terranova dei Passerini (LO), Italy
Phone +39-0377 463 1
Fax +39-0377 463 226

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