

COSMACOL ECI

Technical Data Sheet No. 5008 – January 2020



SASOL

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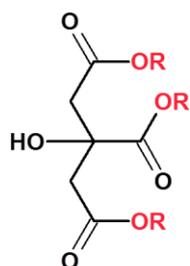


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Product Description

COSMACOL ECI is the citric tri-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. 2156592-46-8
EINECS no. 944-989-5
INCI TRI C12-C13 ALKYL CITRATE

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	≤ 50

√ value reported on inspection certificate.

¹ specification No. 8530 rev. 1 of November 19th 2002.

Additional Properties

Property	Test Method	Unit	Typical Value
HLB required	Calculated	-	8
Refractive Index @ 20°C	ASTM D1218	-	1,458
Iodine Number	ASTM D5768	g/100g	< 1
Pour point	ASTM D97	°C	< -51
Viscosity at 20°C	ASTM D445 / ASTM D7042	cSt	137
Density at 20°C	ASTM D7042 / ASTM D4052	kg/m ³	933
Flash point	ASTM D 93	°C	> 125

RCM 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 ECI does not contain any preservative. COSMACOL ECI 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 ECI does not contain any antioxidant.

Pesticides

COSMACOL ECI does not contain any pesticide.

Product origin

COSMACOL ECI is manufactured from following raw materials:

- Alcohols C₁₂– C₁₃ mono-branched with synthetic origin
- Citric acid with vegetable origin

Main Applications

COSMACOL ECI is a polar emollient used in skin care, make-up and hair care formulations.

In skin care formulations COSMACOL ECI contributes to regulate the sebum level for greasy skin and it exhibits light touch.

COSMACOL ECI is used as dispersing agent for pigments and for UV filters.

In antiperspirant/deodorant formulations COSMACOL ECI prevents stickiness of inorganic salts.



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Handling and Storage

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

COSMACOL ECI is a clear liquid at room temperature it becomes a solid wax at temperature lower than -51°C.

At room temperature COSMACOL ECI is not water soluble.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

COSMACOL ECI 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.

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