

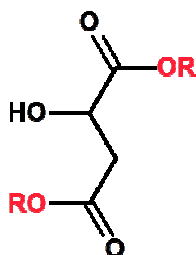
# COSMACOL EMI

Technical Data Sheet No. 5002 – December 2015

## Product Description

COSMACOL EMI is the malic di-ester of ISALCHEM 123 alcohols.

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



R = C<sub>12</sub>H<sub>25</sub> - C<sub>13</sub>H<sub>27</sub> (primary mono-branched)

CAS registry no. 149144-85-4  
EINECS no. 413-390-6  
INCI Di-C12-13 ALKYL MALATE

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ 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	≤ 0,50
√ Colour	RCM 3607	APHA	≤ 50

√ value reported on inspection certificate.

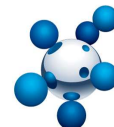
<sup>1</sup> specification No. 8510 rev. 2 of November 19<sup>th</sup> 2002.

## Additional Properties

Property	Test Method	Unit	Typical Value
HLB required	Calculated	-	12
Refractive Index @ 20°C	ASTM D1218	-	1,456
Iodine Number	ASTM D5768	g/100g	< 1
Pour point	ASTM D97	°C	-51
Viscosity at 20°C	ASTM D445 / ASTM D7042	cSt	88
Density at 20°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	933
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 EMI does not contain any preservative. COSMACOL EMI 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 EMI does not contain any antioxidant.

### Pesticides

COSMACOL EMI does not contain any pesticide.

### Product origin

COSMACOL EMI is manufactured from following raw materials:

- Alcohols C<sub>12</sub> – C<sub>13</sub> mono-branched with synthetic origin
- Malic acid with synthetic origin

## Main Applications

COSMACOL EMI has good moisturising properties and it helps to regulate sebum level, used in treatment of aged skin and greasy skin.

COSMACOL EMI provides rich texture without greasy feeling on the skin even in combination with high amount of waxy components.

In hair care formulations COSMACOL EMI improves silkiness and overall dry manageability of the hair.





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## Handling and Storage

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

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

At room temperature COSMACOL EMI is not water soluble.

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

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## Packaging

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

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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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