



DESCRIPTION

COSMACOL[®] PLG is a viscous fluid based on COSMACOL[®] ECI (Tri C12-13 Alkyl Citrate), COSMACOL[®] ETI (Di C12-13 Alkyl Tartrate) and Silica. Latter component is quite well dispersed into the COSMACOL Esters matrix and its particle size distribution gives a transparent liquid.

It's a peculiar mixture for preparation of transparent lipogels and being based on AHA's esters it allows to achieve highly moisturising lipophilic gels with very pleasant skin touch.

CAS registry no.: 94095-06-4; 93573-19-4; 7631-86-9

EINECS no.: (1) 302-210-0; (2) 297-554-0; (3) 231-545-4

INCI NAME: Di-C12-13 Alkyl Tartrate; Tri-C12-13 Alkyl Citrate; Silica

SALES SPECIFICATION

<i>Property</i>	<i>Method</i>	<i>Unit</i>	<i>Specification¹</i>
* Aspect a 20°C	Visual	-	Clear Liquid
* Colour at 20 °C	RCM 3607	APHA	50 max
* Acid Value	RCM 3817	mgKOH/g	3.0 max
* Water (K.F.)	RCM 3804	wt%	1.0 max

* values reported on inspection certificate.

1 - Specification No. D008880 rev. 1 of November 19th, 2002.

ADDITIONAL PROPERTIES

<i>Property</i>	<i>Method</i>	<i>Unit</i>	<i>Typical Value</i>
Odour		-	Typical
Viscosity a 20 °C	RCM 3633	mPa.s	1000
Density a 20 °C	RCM 3662	g/ml	0.977
Dry Matter	RCM 3804	wt%	99.7
TVC microbial	F.U. 9 [^] Ed.	ufc/ml	< 10
TVC Moulds	F.U. 9 [^] Ed	ufc/ml	< 10

RCM are Sasol Italy analytical methods which are available upon request



MAIN APPLICATIONS

COSMACOL[®] PLG is suitable to obtain dry and transparent lipophilic gels at room temperature.

Due to its composition COSMACOL[®] PLG can be mixed with the most commonly used cosmetic oils (synthetic and vegetable) and other esters.

It is also possible to mix COSMACOL[®] PLG with waxy products just melting and adding them to the COSMACOL[®] type kept at room temperature.

Gelling structure can be achieved by using co-gelling agent as glycerol, ethylene or propylene glycols or even very small amount of water. High viscosity values achievable by combining COSMACOL[®] PLG with co-gelling agents will avoid crystallisation of some waxy components, as Olive Oil, and will allow to achieve transparent formulations.

COSMACOL[®] PLG can be used to formulate dry mixture to protect the skin, body massage gels, anti-cellulite active agent carrier, anti-wrinkle transparent gels, sunscreen waterproof transparent gels, emollient feet gels.

STORAGE

COSMACOL[®] PLG does not require any particular measures other than protection from moisture and direct heat sources. Drums should be tightly closed every time required amount of product is drawn.

COSMACOL[®] PLG shelf life is 36 months from production date when product is in its original drum and kept dry at temperature below 30 °C.

COSMACOL[®] PLG is not classified as flammable substance.

PACKAGING AND TRANSPORT

COSMACOL[®] PLG is delivered in 25 kg , 100 kg and 200 kg P.E. drums.

COSMACOL[®] PLG is classified as dangerous in the meaning of transport regulations.

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