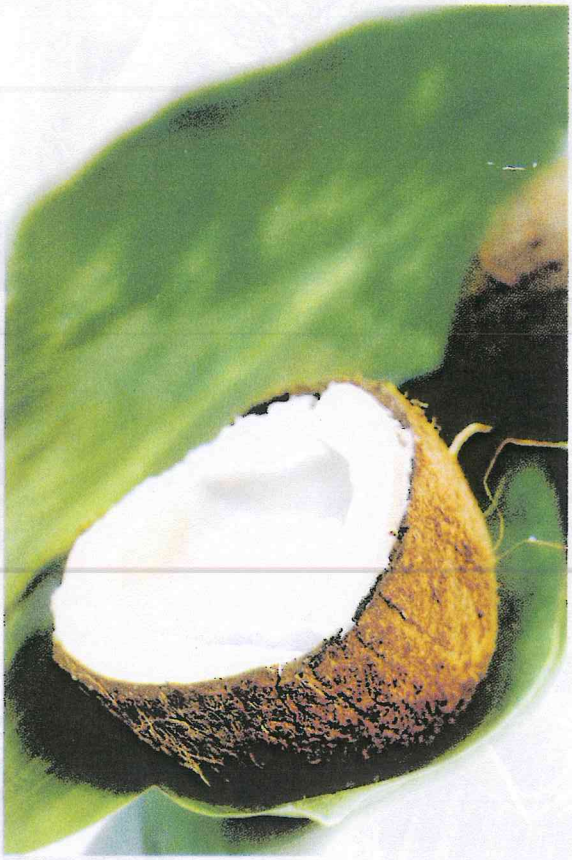
BIOSYNTHIS

VEGELIGHT® 1214

BIODEGRADABLE VOLATILE OILS



The green way to achieve
«a unique non-greasy feel»

www.biosynthis.com

Cyclomethicones are today perceived as having harmful effects on environment (see. Aquatic toxicity).

We are in position to offer the innovative green "ECOCERT labelled" solution as a cyclomethicone replacement.

VEGELIGHT 1214®

CAS N° : 112-40-3 / 629-59-4

BENEFITS :

- Non polar, emollient with detackifing effect for raw materials (active ingredients)
- Promote a pleasant skin feel, soft with absolutely no greasy touch.
- Exceptional spreading power, with similar RI to volatile silicones.
- Improves the spreading of UV filters when combined in emulsions or milk preparations.
- Excellent solvent for silicone gums and elastomers.
- From green and renewable sources (ECOCERT)
- Ideal ingredient for body lotions, color sticks, foundations, AP/Deo products, hair care and sun care products

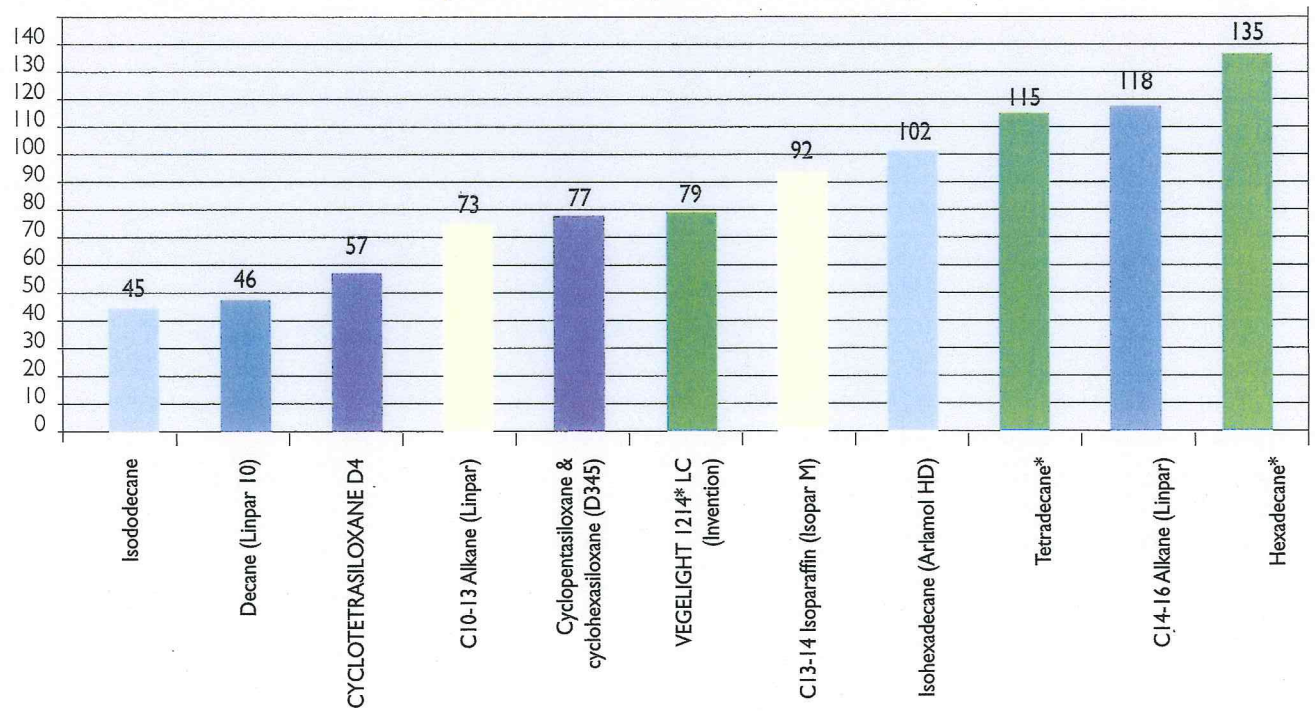
WHAT VOLATILE OILS ARE MADE OF

What is a **volatile oil ?**

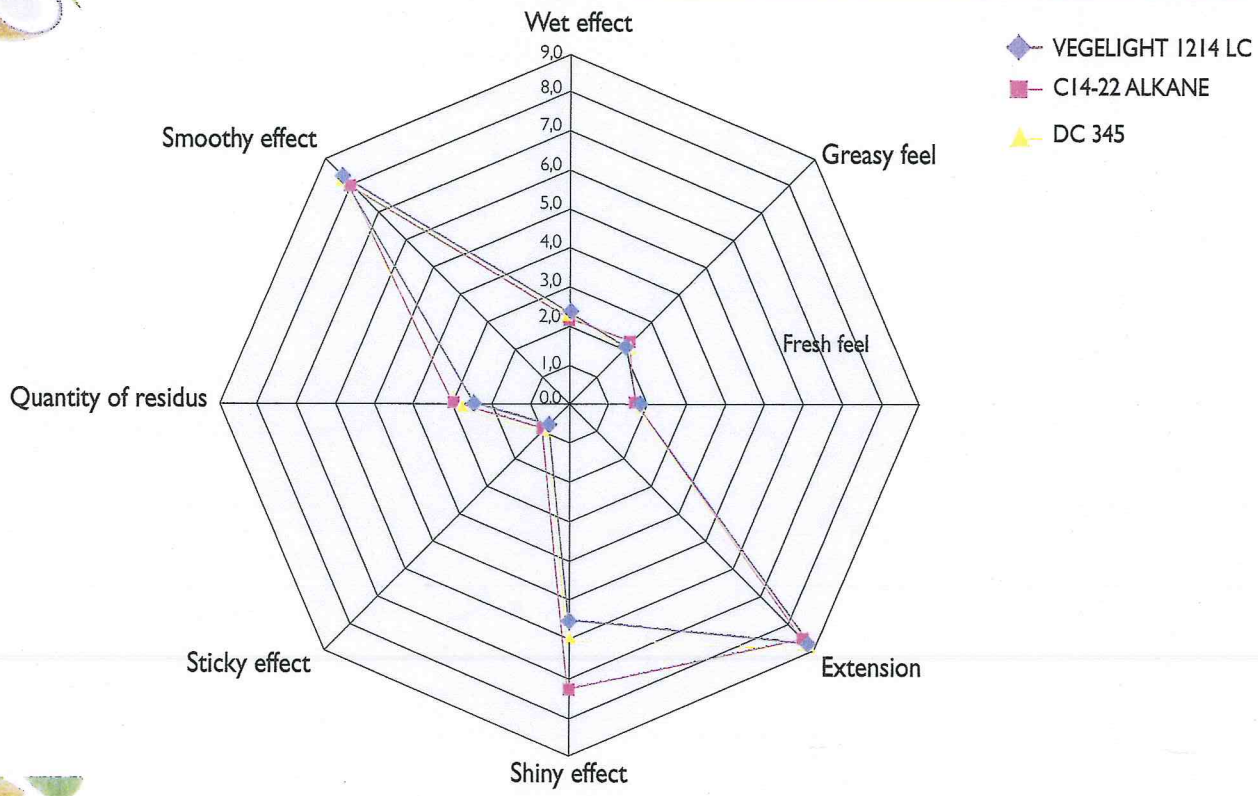
It is an emollient that can remain on the skin for several hours at room temperature, offering :

- **Vapour pressure > 0,13 Pa** (0,01 mm Hg)
- **Flash point < 100°C**
- **Boiling point < 230°C**

VOLATILE OILS / Flash points (Closed cup ASTM D93)



SENSORY ANALYSIS - PANEL TEST 20 pers.



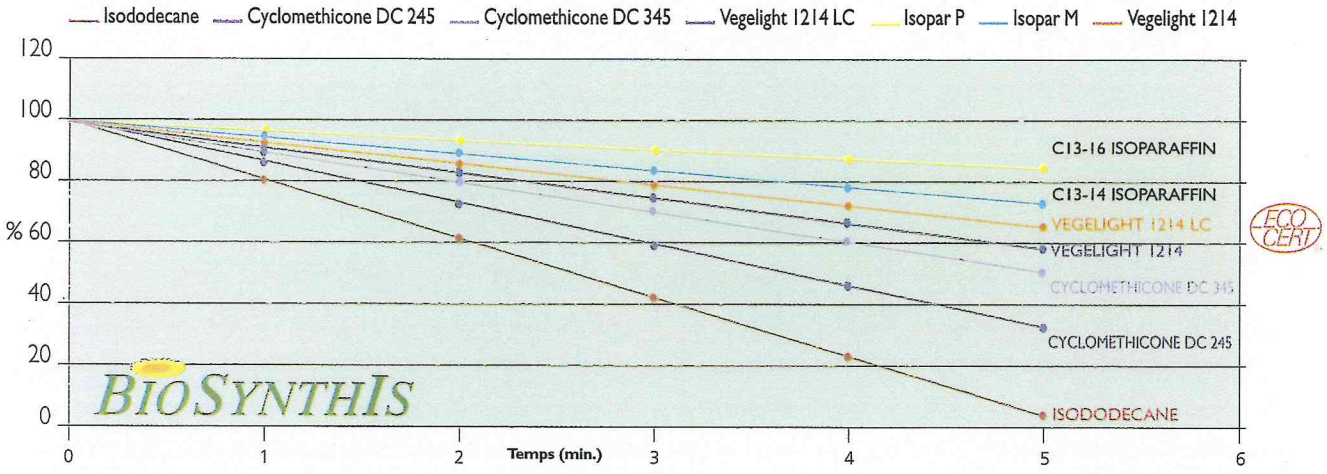
Formulation : DRY BODY OIL

PHASE	INGREDIENTS	INCI NAME	%W/W
A	NEODERM MCT	Caprylic / capric triglyceride	10,000
	Organic Jojoba oil	*Simmondsia Chinensis*	5,000
	SQUALIVE	Squalane (Olea Europea)	5,000
	OCTYDODECANOL	Octyldodecanol	59,900
B	VEGELIGHT 1214 LC vs	Vegetable hydrocarbons	20,000
	DC 345 vs	Cyclopentasiloxane & Cyclohexasiloxane	-
	CETIOL CC vs	Dicaprylyl carbonate	-
	LILAC	C14-22 Alkane	-
	FRAGRANCE	Parfum	q.s

Formulation : W/S FOUNDATION

PHASE	INGREDIENTS	INCI NAME	W/W	W/W
A		Cetyl PEG/PPG-10/1 dimethicone	2,80 %	2,80 %
	Abil EM 90	Phenyltrimethicone	1,00 %	1,00 %
		Polydecene	3,00 %	3,00 %
		Cetearyl ethylhexanoate	2,00 %	2,00 %
	DC345 (Flash 77°C)	Cyclopentasiloxane	18,00 %	-
	VEGELIGHT 1214 (Flash 75°C)	Vegetable hydrocarbons	-	18,00 %
B		Mica	0,50 %	0,50 %
		Red oxide & dimethicone	0,22 %	0,22 %
		Yellow oxide & dimethicone	0,75 %	0,75 %
		Black iron oxide & dimethicone	0,12 %	0,12 %
		Titanium dioxide & dimethicone	8,50 %	8,50 %
C		Sodium Chloride	1,25 %	1,25 %
		Phenoxyethanol	0,50 %	0,50 %
		Butylene glycol	5,00 %	5,00 %
		Aqua	qsp.100	qsp.100
		Parfum	q.s	q.s

EVAPORATION PROFILE



ECO CERT

ECO/TOXICITY PROFILE

NON ANIMAL TESTED

TOXICOLOGICAL INFORMATION

- **Skin irritation (Patch Test / 12 volunteers) :** Moderately irritant
- **Eye irritation (HET CAM / hen egg) :** Non irritant
- **Sensitization Test (HRIPT/ 50 volunteers) :** No primary / no cumulative dermal irritation.

ISSUED FROM LITERATURE DATA ON ALKANES :

- **Acute toxicity (rat):**
  - → **ORAL : LD50 :** > 2000 mg / kg
  - → **DERMAL : LD50 :** > 2000 mg / kg

ECOLOGICAL INFORMATION

ISSUED FROM LITERATURE DATA ON ALKANES :

- **Biodegradability** (OECD 301B) : Readily biodegradable (> 60%, 28 days)
- **Ecotoxicity :**
  - → **Fish** (OECD 203 Cyprinodon variegatus) LC 50 > 100 mg / l, 96 h
  - → **Daphnia** (OECD 202 Daphnia magna) : EL 50 – 48 H > 1 / 1000 *
  - → **Algae** (OECD 201 Selenastrum capricornutum) : EC 50 > 100 mg / l, 96 h

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