ET SIMOL CORBOSILANE C

NOM INCI : ASCORBYL METHYLSILANOL PECTINATE *

Reciprocal stability of Silicium and Ascorbic Acid for unique bioavailable skin benefits ASCORBOSILANE C is a silanol that optimizes the cosmetic properties of its both components.

• Anti radicals activity:

Synergy between silicium and ascorbic acid SILICIUM => optimizes cell's membrane resitance against anti-free radicals attacks Ascorbic acid

=> scavenging activity on free radicals

• Restructuration, hydration and firming activity: SILICIUM

=> cutaneous restructuration and metabolic normalization Ascorbic acid => metabolic substrate

Optimised bioavailibility: SILICIUM

=> Ascorbic acid is vectorized by silicium SILICIUM + Ascorbic acid => Reciprocal stability

 Skin tone radiance: Ascorbic acid => tyrosinase inhibitor

ANALYTICAL COMPOSITION

Methylsilanetriol
including silicium
Ascorbic acid
Pectine
Preservative (1)
Water

0.33% 0.10% 0.63% 0.05% qs% qsp 100%

TECHNICAL CHARACTERISTICS

Limpid to opalescent liquid, colorless to pale yellow Soluble in water, alcohol and glycol pH: approx. 6

PRESERVATIVE (1)

Different preservative systems are available in order to fit with your requirements. Among these versions, we try to develop as often as possible preservative free ingredients. Please contact us for details about the different versions.

AVAILABILITY

5 and 30 kg

APPLICATIONS

Anti-aging: protection, detoxification and cutaneous restructuration Cutaneous restructuring: skin firming and metabolic stimulator Skin tone radiance: illumination and uniformity

* Additive and preservative are not mentioned, please refer to the specification sheet.

COSMETIC ACTIVITIES VITAMINIZED BY ORGANIC SILICIUM AND ASCORBIC ACID



ASCOBOSILANE C offers a double activity for a global protection of the cutaneous cells during a free-radical attack:

- strengthen cell membrane
- free-radical scavenging

ASCORBOSILANE C can assist the skin natural defense mechanisms when overwhelmed by the intensity of the oxydative attacks.

The scavenging effect of ASCORBOSILANE C has been monitored following human fibroblasts viability exposed to free radicals (generated by hypoxanthine and xanthine oxidase).

Vectorized by the silanol structure, ASCORBOSILANE C displays an optimized scavenging action on free radicals.

The higher bioavailability of ascorbic acid optimizes its detoxifying activity for cutaneous tissue.

SCAVENGING EFFECT



ASCORBOSILANE C Anti-aging/Anti-wrinkle ////////

Scavengin reinfor membr Scavenging efficacy and reinforcement of cell membrane increase cell

SCORBOSILANE C

VIIII NI



a tyrosinase inhibitor, key enzyme in this biological process. Ascorbic acid scavenging activity prevents from the hydroxylation of the tyrosine, inducing its inhibition.

A dose of 3% of ASCORBOSILANE C generates an inhibition of approx. 40% of melanogenesis

Inh' melanor with t' favor melanogenesis, together with the silicium power, favors a brighter and more uniform skin tone

Cell restructuration

In order to explain the cell protection induced by ASCORBOSILANE C, we studied the fibroblasts membrane organization.

This ESR experiment (Electron Spin Resonance) monitors the "order parameter" characteristic of the stability and organization of the cell membrane.

ASCORBOSILANE C optimizes on a dosedependent manner the stability of cell membranes.

The spaces between phospholipids are less slack, and cell membranes are more resistant against free radical attacks and destabilization

MEMBRANE STRENGTHEN



"Order parameter" increased = Cell membrane strengthen and restructured



against ROS.

oxydative stress.

induced by ROS.

liberation.

Ascorbic acid acts on melanogenesis as

ASCORBOSILANE C is also considered as a stabilized form of ascorbic acid.



KIN TONE RADIANCE ACTIVITY



Melanogenesis inhibition

ASCORBOSILANE C E THINK Uniform and brightening tone



TOLERANCE STUDY

Clinical studies have evidenced the safety of **ASCORBOSILANE C** in cutaneous, ocular irritation and mutagenic potential.

The ocular irritation has been studied by in vitro tests.

The cutaneous irritation has been studied on reconstructed epidermis and with the HET CAM technique.

The mutagenic potential was tested by the SOS chromotest.

ASCORBOSILANE C is not irritant.

FORMULATION

ASCORBOSILANE C is hydrosoluble. It can be formulated in all types of products (gels, lotions, emulsions...) excluding anhydrous formulations. The recommended using dose is 3 to 4%.

HANDLING and STORAGE

No particular handling precaution.

We recommend the product to be stored in fridge before formulation, while preventing the product from freezing.

EXSITING STUDIES

ASCORBOSILANE and free radicals

ASCORBOSILANE C and melanogenesis

Tolerance study available on demand

