

Plankton Glass Flower

The glass diamond of volcanic lakes



INCI : Plankton extract

USE RATE : 1-3%

ASPECT: dispersible powder

China compliant

ACTIVITIES



UV-Blue light scattering



High porosity and absorption capacity



Fine granulometry

COSMETIC BENEFITS



UV and blue light reflector



Antipollution shield



Matifying



Gentle scrub



Distributed in USA exclusively
by Argan Co.

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PLANKTON GLASS FLOWER

PLANKTON GLASS FLOWER is a natural planktonic material consisting essentially in siliceous fragments of freshwater algae species (mainly composed of *Fragilaria zeileri*, *Gomphomena angustatum*, *Navicula radiosa*, *Cyclotella andancensis*), coming from the ancient lakes of Auvergne volcanoes region.

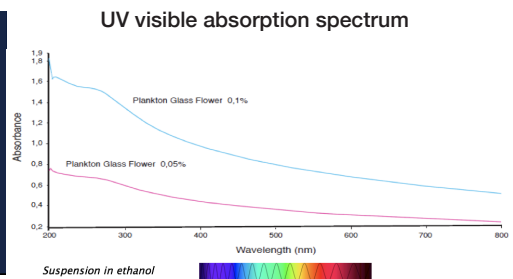
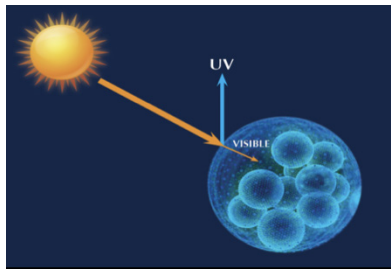
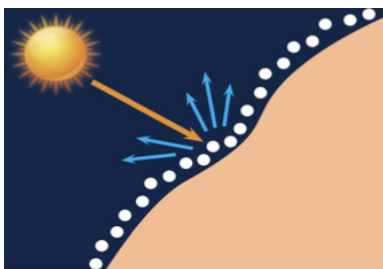
It is used as UV reflector and matifying active ingredient. It also can be used as a pollutants scavenger which entrap the impurities before they are removed by cleansing.



COMPLEXION SKIN PROTECTOR

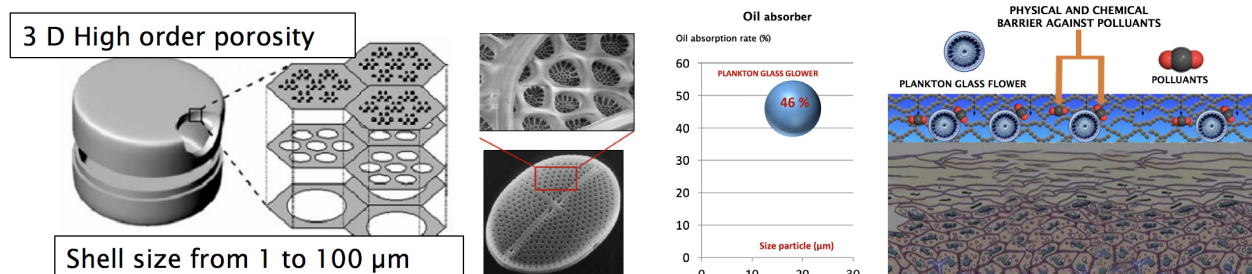
Like in the skin, alterations in phytoplankton growth induced by UV radiations are attributed to changes in nucleic acid structure and function. These disruptions result in a planktonic cell photo-aging. In the clear mountain lakes of Auvergne, the UV pressure is particularly intense. In response to this environment highly exposed to UV, this plankton has developed a very original and innovative strategy to minimize the UV induced damages. This innovation consists in collecting especially silicic acid from lakes and acid lavas coming from the centre of earth. Thanks to that, it makes a delicate glass envelope around its cell, which looks like a glass diamond.

These algal photonic and porous crystals, have the ability to protect phytoplankton against UV radiations. In a study, Plankton Glass Flower powder suspended in ethanol by sonication showed an UV-Visible attenuation due to both reflection and scattering.



OIL ABSORBER AND POLLUTANTS SCAVENGER

Plankton Glass Flower contains millions of microscopic hollow, perforated shells, resulting in an inert, light-weight, highly porous and powerful absorbent material. Its oil absorption (about 46%) allows it to conceal imperfections as well as to matify skin. This property also allows it to entrap pollutants such as particulate matter at the surface of the skin, before being removed by cleansing.



COSMETIC CLAIMS

Plankton Glass Flower can be used in photo-aging and oily skin care, suncare, make up care as well as gentle scrub.

