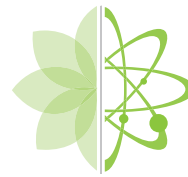




COSMOS
APPROVED



naturalis®
LIFE TECHNOLOGIES



PHYTO-COMPLEX SAP

(Sun protecting Plant Complex)



Chamomilla Recutita



Aesculus Hippocastanum



Vaccinium Myrtillus
Extract



Helychrysum Italicum



Achillea Millefolium



Echinacea Angustifolia
Root Extract



Propolis

DESCRIPTION:

Synergic vegetal complex obtained by ultrasonic waves at low temperature. Phyto-Complex SAP is a concentrated and powerful mix of plant extracts specially designed to protect the skin from sun exposure and delay the process of skin aging. Phyto-Complex SAP added in sun care products helps to fight photo-oxidative and inflammatory process and, associated with Nio-complex (see Niosome series), exerts an excellent solution for limiting the effect of photo-aging.

COMPOSITION:

- Chamomilla Recutita
- Aesculus Hippocastanum
- Vaccinium Myrtillus Extract
- Helychrysum Italicum
- Achillea Millefolium
- Propolis
- Echinacea Angustifolia Root Extract

COSMETIC INTEREST:

Phyto-Complex SAP can be used to formulate cosmetics with decongesting and anti-inflammatory properties. It can be easily added to creams, gels, tonics, body lotion.

ACTIVITY:

Anti-inflammatory, decongesting, protective, soothing, anti-bacterial.

INCI NAME:

Chamomilla Recutita Flower Extract, Aesculus Hippocastanum Seed Extract, Vaccinium Myrtillus Fruit Ex-

tract, Helichrysum Italicum Flower Extract, Achillea Millefolium Extract, Propolis Extract, Echinacea Angustifolia Root Extract, Glycerin, Aqua.

INCI NAME (CTFA):

Chamomilla Recutita (Matricaria) Flower Extract, Aesculus Hippocastanum (Horse Chestnut) Fruit Extract, Vaccinium Myrtillus Fruit Extract, Helychrysum Italicum Flower Extract, Achillea Millefolium Extract, Propolis Extract, Echinacea Angustifolia Root Extract Glycerin, Water.

CAS N°: 84082-60-0, 8053-39-2, 84082-34-8, 90045-56-0, 84082-83-7, 85665-41-4, 84696-11-7, 56-81-5

EINECS N°: 282-006-5, 232-497-7, 281-983-5, 289-918-2, 282-030-6, 288-130-6, 283-631-6, 200-289-5

SPECIFICATION:

Density (at 20° C):	1,12 ± 0,010
pH:	6,0 ± 0,5
Dry matter:	3 – 5%
Appearance:	Clear liquid
Colour:	Dark amber
Odour:	Slight aromatic
Refractive index:	1,40 – 1,44
Bacteria:	< 100 germs/ ml
Yeast & Moulds:	< 10 germs/ ml

PRESERVATIVE:

Benzyl Alcohol (0,6%), Sodium Benzoate (0,18%), Potassium Sorbate (0,12%)

PHYTO-COMPLEX SAP (Sun protecting Plant Complex)



SOLUBILITY:

Soluble in water phase

RECOMMENDED USAGE:

Use level: 3-5%

Formulating pH range: any value

Formulating temperature range: 20 to 75°C

CERTIFICATION STATUS:

Natural product

ECOCERT Approved

COSMOS Approved

GMOrganisms

Not tested on animals

SAFETY & TOXICITY

Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

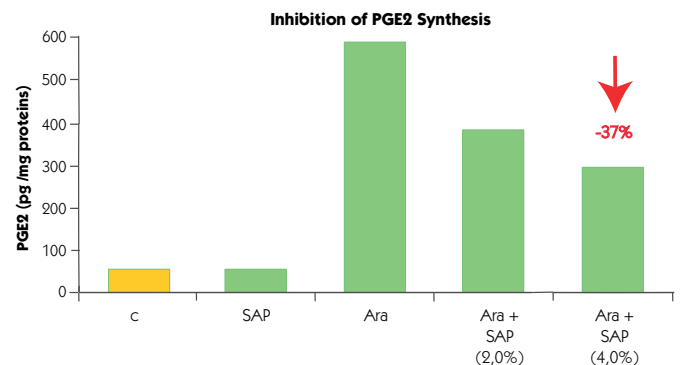
- non-irritating
- non-toxic

PACKAGING:

10 kg Plastic drum

SHELF LIFE:

18 Months away from light and heat source, closed containers.



CLAIM SUBSTANTIATION:

IN VITRO: Evaluation of the anti-inflammatory effect: Inhibition of prostaglandin PGE2 Synthesis

Effect of Phyto-Complex SAP on PEG2 secretion in keratinocytes cells pre-treated with Arachidonic acid (500ng/ml)

IN VIVO: Anti-redness effects of Phyto-complex SAP on UVB erythema.

The anti-redness effect was tested on 12 volunteers (25-60 age) women showing visible facial skin redness after UV, applying an oil in water cream containing 5% Phyto-Complex SAP versus placebo. The reduction of skin irritation was evaluated using a chromametric measurements.

Time after exposure	% Anti-redness effect
2 min	0%
1 hour	10%
2 hours	23%
4 hours	35%