

Carri-Active[®] OXY-Protection[®]

Description

Carrier systems with the ability to transport actives into the skin are playing an important role in cosmetics already for a long time. The most well-known carrier systems belong to the group of liposomes or nanosomes-vesicles which consist of purified phospholipids from soya. Liposomes have an aqueous core whereas nanosomes internally consist of oil and lipophilic actives. Our new innovative delivery system has been developed together with company Sopharcos. CARRI-ACTIVE[®] have similar or even better properties compared to the familiar liposomes and nanosomes. In our CARRI-ACTIVE[®] we can encapsulate either hydrophilic substances of different molecular weights, or we can encapsulate lipophilic components. The carrier system was investigated ex-vivo and in-vivo on human skin and an improved penetration efficacy has been proved.

To ensure effectiveness of the cosmetic formulation, the actives have to be transported to the target site, mostly into the epidermis. CARRI-ACTIVE[®] OXY-Protection[®] is a water-dispersed carrier system (oil-in-water nano-emulsions) for lipophilic active ingredients that contains Tocopherol and Chromanol. Tocopherol, commonly known as Vitamin E, is a fat-soluble antioxidant used in cosmetics due to its protective and nourishing properties. As a potent antioxidant, Tocopherol act as an effective free radical scavenger and helps to neutralize the damaging molecules generated by UV radiation, pollution or stress that contribute to premature aging and skin damage. Vitamin E strengthens the skin barrier, preventing water loss and keeping the skin soft, smooth and hydrated. Chromanol is a potent antioxidant compound and a structural analogue of tocopherol. Chromanol is a synthetic molecule with enhanced stability and in combination with tocopherol creates a synergistic antioxidant effect.

Efficacy

- anti-oxidative
- reduces wrinkles and fine lines
- anti-inflammatory
- moisturizing
- barrier support

Appearance

milky white liquid

INCI

Aqua, Tocopherol, Helianthus Annuus Seed Oil, Glyceryl Citrate/ Lactate/ Linoleate/ Oleate, Polyglyceryl-2 Oleate, Dimethylmethoxy Chromanol



Nature needs no cosmetics,
but cosmetics need nature

Carri-Active[®] OXY-Protection[®]

Registration

CAS-No.	
Aqua.....	7732-18-5
Alcohol.....	64-17-5
Tocopherol.....	59-02-9
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	
.....	9174-23-9
Helianthus Annus Seed Oil.....	8001-21-6
Polyglyceryl-2- Oleate.....	9007-48-1
Dimethylmethoxy Chromanol.....	83923-51-7

EC-No.	
Aqua.....	231-791-2
Alcohol.....	200-578-6
Tocopherol.....	200-412-2
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	
.....	294-585-1
Helianthus Annus Seed Oil.....	232-273-9
Polyglyceryl-2- Oleate.....	-/-
Dimethylmethoxy Chromanol.....	803-588-0

Preservatives / Stabilizers

preservative.....	none
stabilizer Alcohol.....	< 20 %

Characteristics

particle size.....	120 - 250 nm
pH value.....	5 - 6.5

Application

daily cosmetic products
anti-aging products
creams and lotions
face masks
gels and ampoules
sunscreens
after-sun
eye creams

Application concentration

3 - 5 %

Incorporation

Shake the dispersion before use! CARRI-ACTIVE[®] OXY-Protection[®] can easily be processed into final formulations by stirring at 30 - 40 °C.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

CARRI-ACTIVE[®] OXY-Protection[®] should be stored in original sealed containers at temperatures between 2 - 8 °C at a dry and light protected place.

In sealed containers it has a stability of 12 months.