nano hot

Warming Sensorial

Active Ingredients: Vanillyl Butyl Ether.

Nano Hot is an active ingredient encapsulated in lipid particles with particle diameter larger than 200 nm. The active ingredient encapsulation through the Nanovetores Technology allows the stabilization of sensitive components, therefore, complex of being formulated, as well as promotes the sustained release of the active ingredient through the enzimatic trigger release. Due to its natural features and non--existent chemical aggression, Nano Hot can be used in different applications, bringing warming sensation to the skin.

Features

Aspect: White to cream milky liquid
Usage Concentration: 1,0 to 3,0%*
pH stability: 2,0 to 7,0
Solubility: Water Dispersible
Particle: Lipid
Release Trigger: Enzymatic

*The active concentration used must be adjusted according to each application. Glutes and legs require greater concentration as mucous and abdomen, more sensitive areas, require a lower concentration of the active on the formulated product.

Benefits

- Warming sensorial

Usage

- Sensory donor for cosmetic treatment products
- Spa Products
- Body lotions and creams.

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Description

Nano Hot is an unique sensorial active ingredient that promotes a warming sensation on the skin. When compared to other warming active ingredients, Nano Hot demonstrates advantages related to the traditionally used active ingredients. The product is less irritating than capsaicin and capsicum extract, for example.

The encapsulation technology from Nanovetores ensures greater stability for the active ingredient and extended release effect, allowing easy incorporation of the active ingredient in different formulations.

Nano Hot acts directly through the stimulation of receptors on nerve endings to produce a perception of warming to the user, without changing the actual skin temperature.

The nanoencapsulated active ingredient can be used to indicate benefits and as a sensory donor in cosmetic treatment products.

Regulatory Information

INCI NAME	CAS NUMBER
AQUA	7732-18-5
VANILLYL BUTYL ETHER	82654-98-6
CAPRYLIC/CAPRIC TRIGLYCERIDE	73398-61-5
LAURIC ACID	143-07-7
PPG-15 STEARYL ETHER	25231-21-4
MYRISTIC ACID	544-63-8
STEARETH-2	9005-00-9
OLEIC ACID	112-80-1
STEARETH-21	9005-00-9
POLOXAMER 407	9003-11-6
PHENOXYETHANOL	122-99-6
CAPRYLYL GLYCOL	1117-86-8
BHT	128-37-0
DISODIUM EDTA	139-33-3
SODIUM METABISULFITE	7681-57-4

Approved by International Regulations:

China - IECIC

Europa - EC Cosing

EUA - CIR

Australia - AICS Inventor

Physical-Chemical Information

PHYSICAL STATE	LÍQUID
FORM	MILKY
COLOR	WHITE TO CREAM
ODOR	CHARACTERISTIC
pH	2,5 TO 4,5
SOLUBILITY	WATER DISPERSIBLE
RELATIVE DENSITY	0,9 TO 1,1 g/ML
CHEMICAL IDENTITY	ORGANIC
CHARACTERIZATION	BLEND

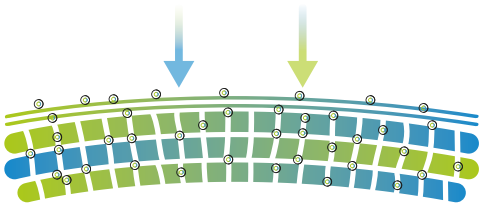
*As it contains natural active ingredients, the product may change in color and odor.

STORAGE:
KEEP AT ROOM TEMPERATURE, BETWEEN 20 - 25ºC.

COMPATIBILITY:
EMULSIONS IN GENERAL, CREAMS, GELS AND LOTIONS.

INCOMPATIBILITY:
ETHANOL AND OTHER ORGANIC SOLVENTS.

Nanovetores Encapsulation Technology



Multifunctional Lipid Particles that promote hydration and extended effect.

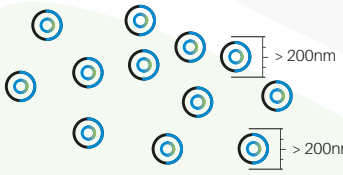
Enzymatic Specific Release Trigger, where enzymes present on the skin disintegrate particles, releasing the active ingredient specifically where it needs to act.

Active Ingredient Protection against oxidation resulted from interaction with external environment and other components of the cosmetic formulation.

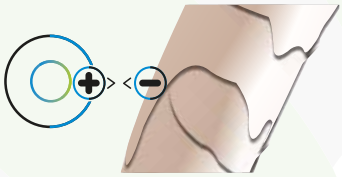
Active ingredient deposition when applied freely

Greater permeation of the active ingredient when encapsulated

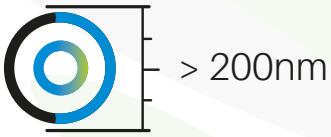
Greater Permeation on the contact surface due to the small size of the capsule.



Monodispersity, that ensures control of the particle size, providing adequate permeation to its proposed action.



Surface Charge Control of the particle, promoting greater affinity with the contact surface.



Secure particles larger than 200nm, biocompatible and biodegradable.

Water Base. Active ingredients are manufactured without the use of organic solvents, ensuring safety for users and the environment.

Use Encapsulated Active Ingredients and Ensure:

- Stability Improvement
- Increased compability in the formulation
- Occlusion of odors
- Increased skin permeation
- Reduced dose
- Use of sensitive active ingredients (without refrigeration)
- Increased Solubility
- Prolonged release
- Increased effectiveness

Nanovetores Tecnologia S.A.
Sapiens Parque, InovaLab, Av. Luiz Boiteux Piazza, 1302,
Cachoeira do Bom Jesus, Florianópolis - SC, 88056-000

nanovetores
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Phone: +55 (48) 3205-6262
Mobile: +55 (48) 9664-0099
E-mail: contato@nanovetores.com.br