

# HIEROGALINE

> **INCI NAME : Triticum vulgare (wheat) germ oil unsaponifiables, Sesamum indicum (sesame) oil unsaponifiables**

## > FUNCTIONS

Hierogaline has a very high curative effect towards UVA induced toxicity in skin cells. This original activity is not found for other classical anti-free radical compounds used, such as vitamin E. Hierogaline also has a high anti-radical activity in preventive treatment.

## > APPLICATIONS

As a result of its preventive and above all curative action towards free radicals, HIEROGALINE is the indispensable cosmetic raw material for :

- preparing the skin for exposure to sunlight while preserving its beauty
- repairing damage due to actinic and physiologic aging.

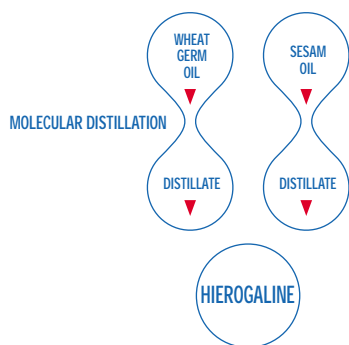
Hierogaline is intended to be incorporated in formulations of products to be applied to zones exposed to the sun or susceptible to be damaged by the weather :

- pre- and post-sun products
- lip and eye contours
- skin care products for hands
- facial anti-aging creams
- care of the bust and cleavage

## ORIGIN

*Cosmetically active molecules in wheat germ and sesame oils are extracted by molecular distillation and then combined to form Hierogaline.*

*As a result of very high vacuum and very short contact time of the products with the source of heat, the active fractions of the oils can be isolated in the absence of degradation.*



## > ANALYTICAL COMPOSITION

PEROXIDE VALUE \_\_\_\_\_  $\leq 10$  meq / Kg  
ACID VALUE \_\_\_\_\_  $\leq 20$   
SPECIFIC ABSORBANCE AT 287 nm \_\_\_\_\_  $\geq 7$

### FATTY ACID COMPOSITION:

• PALMITIC ACID C16 \_\_\_\_\_ 10 to 26%  
• PALMITOLEIC ACID C16' \_\_\_\_\_ < 1%  
• STEARIC ACID C18 \_\_\_\_\_ 2 to 6%  
• OLEIC ACID C18' \_\_\_\_\_ 24 to 37%  
• LINOLEIC ACID C18'' \_\_\_\_\_ 37 to 55%  
• LINOLENIC ACID C18''' \_\_\_\_\_ 1 to 7%  
• ARACHIDIC ACID C20 \_\_\_\_\_ < 1,5%  
• GADOLEIC ACID C20' \_\_\_\_\_ < 1,5%

UNSAPONIFIABLES \_\_\_\_\_ 10 to 15g /100g  
STEROLS \_\_\_\_\_ 4 to 10g /100g  
SESAMINE \_\_\_\_\_ 2 to 4g /100g  
SESAMOLINE \_\_\_\_\_ 1 to 3g /100g  
TOCOPHEROLS \_\_\_\_\_ 0,5 to 2g /100g

STORAGE : IN AN INERT ATMOSPHERE, PROTECTED FROM LIGHT, BETWEEN 15 AND 25°C.  
Hierogaline is strictly and only dedicated to cosmetic applications (topic)

**THE ANALYTICAL COMPOSITION OF THE RAW MATERIALS MANUFACTURED BY THE LABORATOIRES EXPANSCIENCE IS A GUARANTEE OF THEIR ORIGIN AND PURITY**

**EXPANSCIENCE™**

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