

SABOFOS HC 2

Vegetable-derived advanced phosphate-ester technology delivering superior colour performance and conditioning for hair.

INCI name: *Oleth-4 Phosphate, Oleyl Phosphate*
CAS number: 39464-69-2 / 37310-83-1

OVERVIEW

SABOFOS HC 2 is a highly effective phosphate-ester complex designed to enhance the delivery and performance of hair dyes.

- **Dual phosphate-ester synergy:** Oleth-4 Phosphate improves dispersibility; Oleyl Phosphate enhances lamellar structuring and conditioning.
- It improves **dye penetration** into the cortex, **accelerates colour development**, **increases colour intensity** and significantly **enhances colour washfastness**.
- By reducing early oxidation in the bulk, HC 2 preserves precursor reactivity.
- Phosphate esters share structural analogies with **natural phospholipids**, promoting self-assembly into MLV (lamellar systems). MLVs and lamellar gel networks (LGN) enhance:
 - deposition of lipophilic molecules
 - stabilization of reactive intermediates
 - controlled release toward biological substrates
 - Its rheological contribution ensures uniform distribution and optimal color kinetics.
- **NOI (ISO 16128):** 78%
- **REACH:** registered

TECHNICAL CHARACTERISTICS

- **Appearance:** liquid
- **Concentration of use:** 2-4%
- **pH:** effective in high-pH colour bases and low-pH developers
- **Solubility:** oil-phase soluble

FUNCTIONS

- **Enhances penetration** of dye intermediates into the hair cortex
- **Faster colour development** inside the hair
- Deeper, richer and **more intense colour results**
- **Superior colour washfastness** after repeated shampoos
- Wide pH tolerance (colour base + developer)

FORMULATIONS

- Dye (color cream)
- Developer
- Emulsions
- Conditioners
- Hair masks

APPLICATIONS

- Permanent hair colour
- Demi-permanent hair colour
- Semi-permanent



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