SOLDOC PG 410

SOLDOC PG 410 is a PEG-free non ionic emulsifier based on natural raw materials, used in o/w emulsions with a particular light-aqueous skin-feel. SOLDOC PG 410 helps form bright white creams and lotions with a light texture and good emolliency. The resulted is a very pleasing after-feel.

This efficient emulsifier can form stable emulsions in a wide range of pH (4.5<pH<8). It is compatible with the most commonly used additives, as well as active ingredients. The product is easily employed as a primary emulsifier and it can be used in more consistent creams in combination with secondary emulsifiers or with consistency waxes, when a higher viscosity is required.

Key features:
- Outstanding emulsifying properties - provides stable O/W emulsions
- Does not increase viscosity
- Easy-to-use, liquid form
- Cold and hot process
- Emulsifies any oil phase type and concentration
- Functions as a self-emulsifying system in oil formulations, such as oil bath concentrates, which will then spontaneously emulsify when added to water
- Is used as PEG-free re-lathering agent especially in toiletries (Body washes and liquid soaps)

It can be used in a wide range of Personal Care applications:
- Skin Care: Facial Care & Body Care products
- Hair Care: Conditioners & Shampoos products
- Sun Care: Sun Protection & After-sun products
- Toiletries: Personal Wash

Typical properties:
- INCI: Polyglyceryl-4 Caprate
- Appearance: Viscous yellowish liquid
- CAS number: 160391-93-5

In-situ and high performance properties.

The importance of the right emulsifier into an emulsified system is generally recognized: the texture, stability, safety profile of the final product and nowadays the sensorial properties of the cream is becoming more and more one the main characteristic to be considered when choosing an emulsifier. IQL Polyglycerol ester-based cosmetic ingredients meet these requirements combining natural emulsification systems and high performance properties.

NATURAL EMULSIFICATION

Prepared from natural resources SOLDOC PG 410 and SOLDOC PGPR are multifunctional ingredients for today’s personal care formulations. These Polyglyceryl Esters are biodegradable, safe and free of 1,4-dioxane and any of its precursors. They are excellent alternatives for polysorbates, PEG and linear alcohol ethoxylates.

SOLDOC PGPR

SOLDOC PGPR is a PEG-free emulsifier based on vegetable raw materials, suitable for W/O creams and lotions with a brilliant white appearance and pleasant application properties. SOLDOC PGPR emulsions match all the important characteristics of stability and an appreciable skin feel. It can produce very stable, fluid, low viscosity emulsions which spread easily and give a light skin feel.

The natural derived emulsifier has excellent compatibility with a wide number of oils, as well as other common ingredients.

Key features:
- Efficient emulsifying power - provides stable W/O emulsions
- Effective with polar & non-polar oils
- Low and high oil phase ratio
- Imparts excellent high and low temperature stability
- Cold and hot process, liquid form
- Easy and reproducible emulsion processing

SOLDOC PRPG can be used in Personal Care applications for:
- Skin Care: Facial Care & Body Care products
- Sun Care: Sun Protection & After-sun products
- Color Cosmetics: Make-up

Typical properties:
- INCI: Polyglyceryl-3 Polyricinoleate
- CAS number: 68936-89-0
- Appearance: Viscous yellow liquid
- HLB value: 2.3
- Solubility: Oil soluble
- Character: non-ionic
- Dosage: 2 - 10 %

Finished cosmetic products containing SOLDOC present a pleasant skin feel. Emulsions obtained are white, very bright, and leave a very soft finish. Very transparent and mild, emulsions spread easily on the skin and offer a sensation of extreme comfort and protection. SOLDOC is well adapted for all types of skin even the most sensitive and reactive. SOLDOC emulsifiers offer an immediate and a long lasting moisturising effect after 8 hours of application.

IN-VIVO corneometer test

moisturising effect of SOLDOC PG 410

moisturising effect of SOLDOC PGPR