SNAPSHOT
Hydresia® G2 consists of revolutionary Oleosomes from Safflower seeds in vegetable glycerin and water, and functions to provide emulsification and long lasting moisturization through delayed release of oils and vitamins.

INCI
Carthamus tinctorius (Safflower) oleosomes + glycerin + water

USE LEVELS
5-10%

CERTIFICATIONS
EcoCert Natural (Natural Origin)
NPA Approved

MAIN APPLICATIONS
Body washes
Facial cleansers
Haircare

BEYOND OIL
Hydresia® G2 consists of a 60% dispersion of Oleosomes in water and glycerine. Oleosomes are structures found naturally in all oil bearing plant seeds and serve as natural storehouses of energy used by the seed until germination.

Oleosomes are micron sized spheres of emollient plant oil and vitamin E, surrounded by a phospholipid membrane and protein coat. They are isolated as aqueous dispersions according to a patented chemical-free green manufacturing process. This unique structure has considerable benefits over and above regular plant oils in personal care.

REVOLUTIONARY BENEFITS
Hydresia® G2 comes straight from nature and is the perfect balance between all natural and real performance.

POWERFUL EMULSIFIER
Due to the unique structure of Oleosomes, Hydresia® G2 functions as an efficient emulsifier compatible in most surfactant systems and is ideal to enhance stability of a variety of cleanser products.

PROVEN DELIVERY SYSTEM
Hydresia® G2 contains encapsulated safflower oil (which imparts emolliency) along with Vitamin E and delivers its contents to the skin over time, through the collapse of the Oleosome structure. Consumers notice an immediate moisturization benefit that lasts.
POWERFUL EMULSIFIER – Enhance stability of cleanser products while removing PEGs.

Oleosomes are spherical structures with a diameter of 1-3 μM. They consist of a core of vegetable triglycerides, surrounded by a single phospholipid membrane with an oleosin protein coat (1% of weight). Oleosins are 25,000 kDa proteins that consist of both hydrophilic (water-loving) and hydrophobic (oil-loving) domains, and because of their spherical orientation, exhibit unparalleled emulsification efficiency (HLB 5-15), even at extremely low levels.

As a result of its unique structure, Hydresia® G2 acts as an effective emulsifier in a variety of cleansers and haircare products, allowing the replacement of PEG, Polysorbate and Ceteth / Steareth emulsifiers with a natural, skin-friendly ingredient that provides a difference you can feel.

PROVEN DELIVERY SYSTEM – Consumers notice a difference

Hydresia® G2 is a robust delivery system, capable of delivering emollient safflower oil and vitamin E on the skin over time. This effect is felt immediately by consumers in a variety of cleanser and haircare applications, but also is long lasting as not all Oleosomes liberate their contents right away. Particle size imaging of Oleosomes in water shows the breaking of the structures over a period of 90 minutes, whereas particle size imaging of Oleosomes in water and glycerine (Hydresia® G2) shows an even more delayed release.

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