

## DERMOADHESIVE TECHNOLOGY

## New polymeric bioadhesive nanoemulsion for topical skin delivery

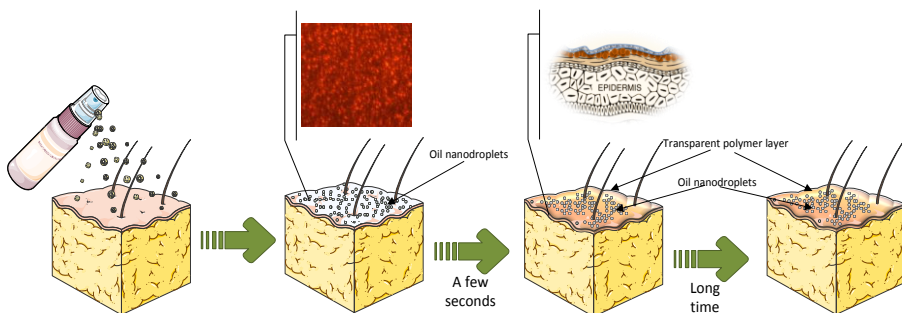
### Background

Current vehicles containing oils are only presented as conventional emulsions and ointments. This new BNP® polymeric nanoemulsion technology allows obtaining a non greasy sprayable liquid formulation suitable for skin, hair and scalp application.

Through the use of this new BNP® technology, lipophilic actives and natural oils can be incorporated in sprayable formulations with high local residence time and without greasy effect after topical application.

### Innovation

BNP® technology, is an innovative dermoadhesive liquid spray and gel that acts as a “fluid patch” in order to interact with the skin allowing the active ingredients be adhered to specific cutaneous layers, therefore providing a long-lasting effect.



### Fields of application

- ✓ Adequate for hair and scalp topical delivery without greasy effect.
- ✓ Adaptable to different lipophilic actives and oils.

#### PSORIO-PLUS SPRAY and GEL

Specific formula based on polymeric nanoemulsion with **keratoregulating effect** that helps **improving hyperkeratinized skin conditions**, as example;

- ✓ Psoriatic skins
- ✓ Seborrheic dermatitis
- ✓ Ichthyosis

#### Ingredients

- ✓ Keratolytic agents
- ✓ Natural Anti-inflammatory actives
- ✓ Natural Anti-oxidants
- ✓ Skin regenerative oils (Omega-3 and 6)



#### RSS-PLUS SPRAY

Specific formula based on polymeric nanoemulsion that **reduces hair loss, stimulating the scalp skin life process and enhancing the hair structure.**

#### Ingredients

- ✓ Unique combination of natural actives
- ✓ Natural 5- $\alpha$ -reductase natural inhibitors
- ✓ Natural sulfur salts and vitamins



### Advantages

- ✓ Small size droplets lead to non-greasy sensation
- ✓ Immediate skin softening
- ✓ Containing Omega-3 and Omega-6 fatty acids, essential for youthful skin
- ✓ Simple manufacturing: Avoids the use of special equipment and techniques
- ✓ Low cost of goods ensures excellent profit margin

**IP:** Intellectual property rights until 2032. PCT/EP2012/056900. Nanoparticles comprising esters of poly (methyl vinyl ether-co-maleic anhydride) and uses thereof.

### BIONANOPLUS

Bionanoplus is a company specialized in providing solutions to drug delivery problems. Bionanoplus has developed different technology platforms and products based on different mucoadhesive polymeric systems that allow tackling delivery, processing, and efficacy issues of molecules with cheap and easy to scale-up technologies that fit market needs and regulatory requirements.

Bionanoplus is seeking for partner for out-licensing and/or product co-development