



Brochure STELLAGUARD PB125

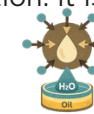
**Stellaguard PB125** is an aliphatic diol used as a solvent in cosmetic products. It acts as a humectant and skin-conditioning agent, imparting excellent moisturising, emollient and wetting properties to formulations, thereby helping to create products with a low risk of irritation and sensitisation. It is also used as a co-surfactant.



PRESERVATIVE BOOSTER



HUMECTANT



CO-EMULSIFIER

# STELLAGUARD PB125

## QUALITY

In compliance with current cosmetics regulations.

## INCI

1,2-Hexanediol

## CAS

6920-22-5



## PROPERTIES

### MULTIPURPOSE INGREDIENT

- **Preservative** boosting effects
- **Active** against bacteria and yeasts by disrupting cell membranes
- **Binds** water and **improves** skin feel
- **Improves** spreadability and sensory properties
- **Reduces** the sticky feel of polyols
- **Solubilises** some hydrophobic active ingredients or preservatives
- **Improves** the clarity of gels and lotions
- Helps to **stabilise** emulsions

### PRODUCT TARGETS

- Creams, lotions, gels, serums
- Products for sensitive skin (reactive skin)
- Shampoos, conditioners
- Face masks
- Hair serums
- Styling products
- Shower gels
- Facial cleansers (wipes)

## COMPLIANCE

EUROPE, USA, CANADA, KOREA, JAPAN,  
AUSTRALIA, CHINA, ASEAN, TAIWAN

## TECHNICAL SPECIFICATIONS

|                            | Specifications |
|----------------------------|----------------|
| 1,2-hexanediol content (%) | > 99.0         |
| Water content (%)          | ≤ 0.3 %        |
| Colour (Hazen)             | ≤ 30           |
| Hydroxyl value (mgKOH/g)   | 925 - 955      |
| Odour                      | Characteristic |

## FORMULATION GUIDELINES

### KEY DATA

In use Concentrations :

- Leave-on : unlimited
- Rinse-off : unlimited

### IDENTITY

- Aspect > Liquid
- Colour > Colourless
- Storage > Cool, well-ventilated place, above 5°C in closed packaging, protect from direct sunlight, sensitive to static discharges
- Smell > Odourless

- Compatible with most commonly used personal care ingredients.
- Highly soluble in water and glycols
- Compatible with anionic, amphoteric and non-ionic surfactants

### RECOMMENDED PROCESS

- pH (effective range) : 4 - 8
- Heat-stable (can be heated to 80-90 °C)