

PHYTOCHEM[®] HAIR LOSS SP

Código: 69368

INCI: Aqua, PEG-40 Hydrogenated Castor Oil, Ethoxydiglycol, Propylene Glycol, Alcohol denat., Zinc Chloride, Panthenol, Tocopheryl acetate, Pyridoxine HCl, Biotin, Acetyl cysteine, Glutamine, Methionine.

CAS Nº: 7732-18-5, 61788-85-0, 111-90-0, 57-55-6, -, 7646-85-7, 81-13-0 / 16485-10-2, 7695-91-2 / 58-95-7, 58-56-0 / 12001-77-3, 58-85-5, 616-91-1, 56-85-9, 59-51-8.

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INTRODUCTION

Hair is a part of our skin. It is mainly composed of proteins, mainly **keratin**, growing from the hair follicle and forming a hair shaft.

Its main functions are:

- ◆ Regulating the temperature of the scalp
- ◆ Softening possible blows or chafing and preventing the entrance of harmful agents.

These functions are supported by hair's properties, including:

- ◆ Great resistance of the hair shaft, due to the joints between cuticle cells. Hair can resist heat, pH changes and tearing forces.
- ◆ Hair has certain elasticity and resists volume and length changes.
- ◆ Permeability; hair can absorb any kind of liquid.

Besides these biological functions, hair also has a cosmetic function, which is very important in our society. Therefore, hair alterations (particularly hair loss) are the object of considerable research.

Hair loss is caused by a number of reasons, including: hormonal imbalance, certain diseases, medication, pregnancy, unhealthy diet and continuous prolonged exposure to harmful chemicals.



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Several products are currently available, whose actions clearly tend to restore hair growth and prevent hair loss.

PROPERTIES

PHYTOCHEM® HAIR LOSS SP is a cosmetic active compound designed to restore and recover hair cell metabolism. Mainly composed of amino acids, oligoelements and glycoproteins, it stimulates the biochemical processes in the hair follicle. This cleansing and nourishing product strengthens the hair at the roots.

As a result, the hair gains strength, resistance and elasticity, and hair loss is prevented.

MAIN BIOACTIVE COMPOUNDS

PHYTOCHEM® HAIR LOSS SP is mainly composed of:

- ◆ **Vitamin E acetate:** Provides protection against oxidative processes and prevents free radical formation. It also stimulates enzymatic activity in the cell, which stimulates hair growth.
- ◆ **Vitamin B5:** Having **panthenol** as precursor, it acts as an emollient in the hair shafts. Giving shine, preventing greasy hair and providing moisture it re-establishes hair's natural elasticity.
- ◆ **Vitamin B7 (biotin):** It acts as a coadjuvant to Vitamin B5. It is important to stimulate the metabolism of several cellular nutrients, such as proteins, fats and carbohydrates. Deficiency of this vitamin leads to hair loss.
- ◆ **Vitamin B6 (pyridoxine):** It has complex and interrelated functions. It allows for interaction with certain amino acids, particularly sulphur-containing ones (e.g. cysteine), which are essential in the formation of keratin fibres. Promoting the synthesis of this protein remarkably enhances hair elasticity, resistance and strength.



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- ◆ **Zinc chloride:** Zn is an essential oligoelement in hair and skin growth. Its deficiency produces dull, dry and weak hair and may even lead to hair loss. **Zinc acts by partially blocking the production of DHT hormone.** The synthesis of DHT is determined by the action of an enzyme that is found in the scalp (**5- α reductase**), which turns testosterone into **DHT**. High levels of this hormone increase sebum levels in the hair follicle, suffocating it and leading to thinner hair shafts that may eventually fall.
- ◆ **Saccharomyces lysate:** Used as yeast extract, it stimulates collagen synthesis and boosts re-epithelisation. It has soothing and anti-inflammatory properties. It increases epithelial oxygen supply and regulates cellular water content.

SPECIFICATIONS

Aspect	Transparent liquid
Color	Colorless
Odor	Characteristic
pH (sol. 10%)	4.0 - 5.0
Density (at 25°C)	0.981 - 1.021 g/ml
Refractive Index	1.3300 - 1.3400
Solubility	Completely miscible in water, ethanol, isopropyl alcohol and hydroalcoholic mixtures.
Microbiology	Total bacteria < 100 ufc/g. Yeasts and moulds < 10 ufc/g. Pathogen absence in 1 g.



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DOSE OF USE

The recommended dose stands between 0.5 - 5%.

This product may be used in the following cosmetic preparations:

- ◆ Treatment cream for hair loss
- ◆ Shampoo
- ◆ Lotions
- ◆ Mask and Conditioners

ADDITIONAL DATA	
USE PRECAUTIONS	Available on Material Safety Data Sheet
STORAGE	Store in a tightly closed container at room temperature, away from direct light and moisture.

Note: The information is presented for information purposes, taking into account that CHEMIR SA has taken care to ensure that it is about correct information. However, the company assumes no responsibility for damages, losses or expenses arising from the use of such information, including those arising from the existence of possible intellectual property rights.



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