

TECHNICAL DATA SHEET

Product Name: Lanolin

INCI Name: Lanolin

CAS: 8006-54-0

Chemical Classification: Lanolin/derivatives

Functional Category: Surfactant ~ Emulsifier, Emulsion stabilizer, Skin conditioning agent ~ Emollient, Skin protectant, Hair conditioning agent

Description: Lanolin is a natural wax obtained from sheep wool. Its complex composition includes a vast number of chemical compounds, predominantly lanolin acids (over 200 types) and lanolin alcohols (over 100 types), with cholesterol and lanosterol as the most abundant compounds. Lanolin contains over 10,000 esters formed by these acids and alcohols. It is considered one of the most valued ingredients in the cosmetics industry due to its unique emollient properties. As a product of sheep sebaceous secretions, lanolin closely resembles the natural oils produced by human skin, making it highly compatible for skin care and protection. It effectively hydrates and retains moisture, forming a barrier that prevents water evaporation and promotes regeneration. Lanolin is widely used in cosmetic formulations to enhance product texture, providing a creamy and pleasant consistency that spreads easily and absorbs quickly. Its properties enable the creation of rich moisturizing creams and balms, particularly suitable for dry and rough areas such as elbows, knees, and heels. Lanolin is known for its high occlusivity, forming an effective protective layer on the skin, reducing transepidermal water loss, and leaving the skin soft and smooth. In addition to its moisturizing properties, lanolin functions as an emulsifier and stabilizer, facilitating the mixing of water and oil phases and ensuring emulsion stability. Due to its natural origin and high sterol content, lanolin has excellent regenerative properties and can help soothe irritated skin, making it suitable for sensitive skin products, including baby care formulations. This versatile ingredient is found in a wide range of products, including lip balms, hand creams, moisturizers, and hair care products, where it provides shine and elasticity. Lanolin is valued in formulations focused on sustainability and natural ingredients. Although it offers numerous benefits, some individuals may experience allergic reactions. It is recommended to test products containing lanolin on a small skin area before regular use. Lanolin appears as a yellow, solid, greasy substance with a characteristic

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odor. It is insoluble in water, with an HLB value of 10.

Benefits:

- Hydrates and softens the skin, providing deep nourishment.
- Forms a protective barrier on the skin, reducing transepidermal water loss.
- Enhances the texture of cosmetic products, giving them a creamy and pleasant feel.
- Aids in the regeneration of cracked and damaged skin, accelerating recovery.
- Stabilizes emulsions as an emulsifier and stabilizer in formulations.
- Soothes irritated skin, making it suitable for sensitive skin products.
- Effectively hydrates rough areas such as elbows, knees, and heels.
- Adds shine and elasticity to hair, aiding in its care and protection.
- Compatible with natural skin oils, suitable for most skin types.
- Ideal for sustainable formulations due to its natural origin.

Usage Instructions: Lanolin is used in varying concentrations depending on the type of cosmetic product and its intended purpose. In facial and body moisturizers, recommended concentrations range between 2% and 5%, creating a protective skin barrier that maintains hydration without a greasy feel. In lip balms or regenerative creams for damaged skin, concentrations can go up to 10% or more, ensuring intensive care, deep hydration, and protection from dryness. Such products are often used to treat cracked skin or dry lips, where additional occlusivity is required. Lanolin is also used in hand creams, where concentrations of 3% to 7% provide protection against environmental factors, creating a barrier against cold and wind. In hair care products, such as conditioners or masks, it is used at concentrations of 1% to 3%, restoring natural shine and elasticity, easing detangling, and leaving hair softer. For baby care or highly sensitive skin formulations, lower concentrations between 1% and 3% are preferred. Due to its viscosity, lanolin is best used in combination with other emollients or oils, allowing easier application and balanced effects without a heavy or pore-clogging feel. It is recommended to slightly heat lanolin before incorporating it into formulations for better homogenization and integration with other ingredients.

Raw Material Origin: Germany

GMO Status: Non-GMO

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Storage: Keep the container tightly closed, in a dry, cool place, protected from moisture.



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