RITA CORPORATION

Lanolin & Lanolin Derivatives

COMMITMENT VISION PROGRESS

RITA CORP

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Revision No. 10 Date 02/16/2026

RITA Corporation Brochure Catalog

General Product Listing

- Acritamers - Carbomers
- Cationic Compounds, Conditioning and Styling Aids
- Emollients
- Emulsifiers
- Glycol and Glyceryl Esters
- Lanolin and Lanolin Derivatives
- Methyl Glucose Esters
- Natural Butters
- Natural Oils
- Ritafactants - Anhydrous Surfactant Blends
- Ritafactants with Lactylate - Sulfate Free Surfactants
- Ritafactants - Sugar and Amino Acids Based Surfactants
- Ritamulse SCG - Natural Emulsifier
- Ritapan - Panthenol

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Lanolin & Lanolin Derivatives

RITA Lanolin & Lanolin Derivatives

Lanolin is a product derived from the sebaceous glands of sheep and is one of the oldest ingredients used for cosmetic and personal care products. It was first known to be used by the ancient Greeks around 700 B.C. Commercial production of **Lanolin** first began in the late 1800s. The product is extracted from the secretion of the sebaceous glands and deposited on wool fiber. This extracted wool grease is further refined to lighten its color, reduce the odor and the free acid content. Because of its complex mixtures of esters, di-esters, hydroxy esters of high molecular weight, fatty alcohols and high molecular weight fatty acids, straight **Lanolin** and its many derivatives offer unlimited possibilities in personal care and pharmaceutical formulations.

RITA Corporation offers extra-deodorized, cosmetic and pharmaceutical grades of **Lanolin**. These different versions of the product are differentiated by their color and all meet USP specifications. RITA also provides numerous other products that are either fractions of Lanolin or derivatives produced by chemical modifications that include ethoxylation, esterification, hydrogenation, propoxylation or blends thereof.

Product	INCI Name	Physical Form
Lanolin USP	Lanolin	Yellow Paste
Cholesterol NF	Cholesterol	White Powder
Laneto 50	PEG-75 Lanolin	Amber Liquid
Laneto 100	PEG-75 Lanolin	Yellow Waxy Solid
Laneto 100F	PEG-75 Lanolin	Amber Flake
Laneto AWS	PPG-12-PEG 50 Lanolin	Amber Liquid
Lanolin Wax	Lanolin Wax	Waxy Solid
Ritalafa	Lanolin Acid	Yellow to Tan Solid
Ritalan	Lanolin Oil	Yellow, Viscous Fluid
Ritawax	Lanolin Alcohol	Amber Solid
Ritawax AEO	Polysorbate 80, Acetylated Lanolin Alcohol, Cetyl Acetate	Amber Liquid
Ritawax ALA	Cetyl Acetate, Acetylated Lanolin Alcohol	Slightly Yellow Liquid

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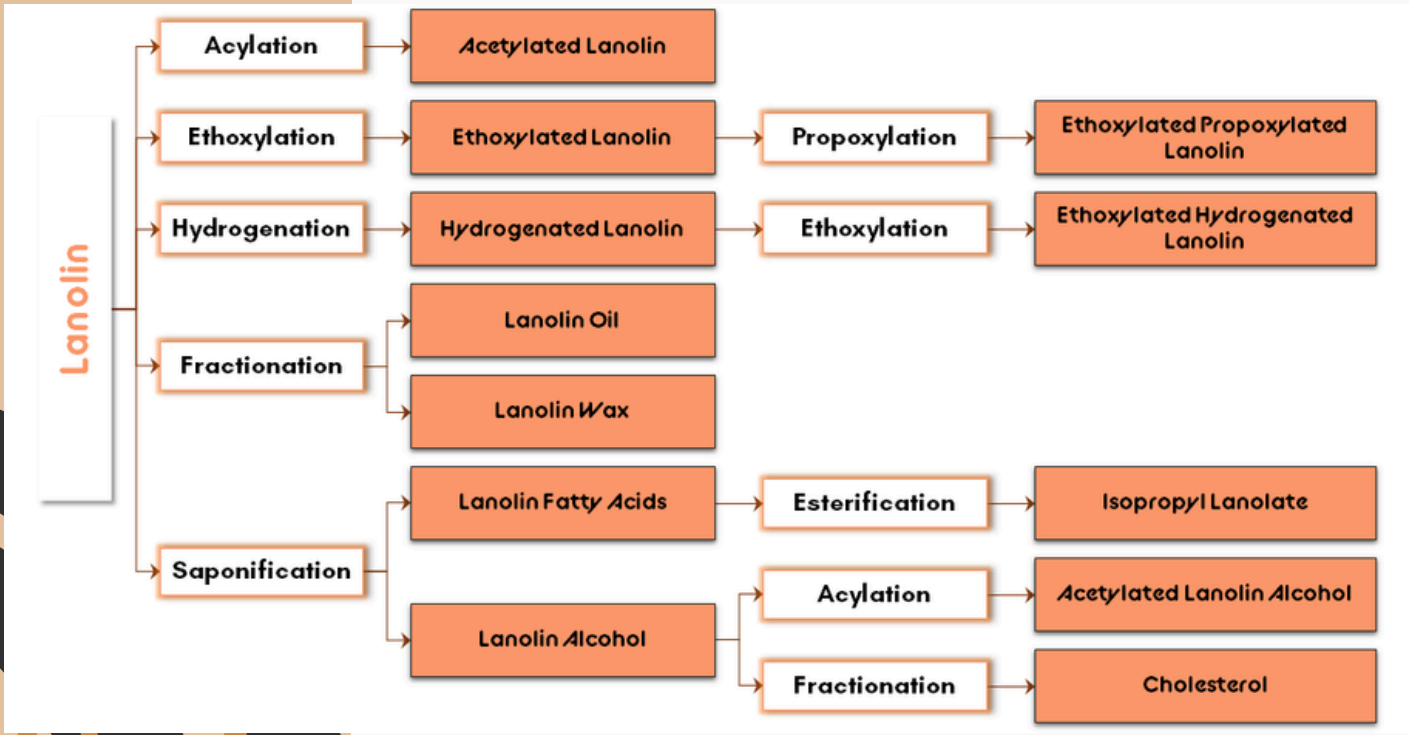
Lanolin & Lanolin Derivatives CHEMISTRY



Lanolin

Lanolin is classified as a wax; a complex mixture of esters and polyesters. Its derivatives consist primarily of fatty alcohols and fatty acids and their reaction products. The fatty alcohols include aliphatic alcohols, sterols, and tri-methylated sterols. There are no glycerides in Lanolin. The fatty acids include normal (straight chain acids), iso (branched chain/even carbon number, anteiso (branched chain/odd carbon number) and hydroxy acids. Lanolin is separated into Lanolin Wax and Lanolin Oil.

A byproduct of the Lanolin production process is Degras. This product is typically used in industrial lubricant application where the color and odor of the product is not as important.

RITA supplies several grades of Lanolin USP which are differentiated by color.

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Ethoxylated Lanolin

The hydroxyl esters of Lanolin when reacted with ethylene oxide will form ethoxylated Lanolin. The hydrogen bonding of water molecules at the ether oxygen results in a product that is very soluble in water. RITA provides Laneto 50, Laneto 100, and Laneto 100 Flaked. These are all PEG-75 Lanolin where the Laneto 50 is diluted 50% in water, and the Laneto 100 are 100% solid forms of the product.

In addition to straight ethoxylation, RITA also provides Lanolin that is both ethoxylated and propoxylated. **Laneto AWS** is therefore soluble in both water and alcohol.

KEY FEATURES/BENEFITS

- Promotes emollience and surface activity in aqueous or hydroalcoholic solutions
- Great shampoo conditioner, improves wet and dry combing, and reduces static
- Super fatting agent for hand soaps and waterless cleansers, prevents drying
- Imparts a soft, non-sticky after-feel in creams and ointments
- Variable hydrophilic nature
- Capable of solubilizing many pharmaceuticals

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Lanolin & Lanolin Derivatives

Lanolin Acid

Ritalafa (Lanolin Acid) is prepared through the saponification of Lanolin. Lanolin acid is an amber solid that acts as a surfactant, cleansing agent, emulsifier, wetting agent, gellant for oils and detergents, prevents defatting, solubilizer for propellants, and raises plasticity without softening. Ritalafa is an excellent wetting and dispersing agent for powders that is suitable for use in soap formulations to provide textured, glossy o/w and w/o emulsions.

KEY FEATURES/BENEFITS

- Wetting and Dispersing agent
- Emulsifier
- Gellant for oils and detergents
- Defatting agent
- Solubilizer for propellants

Lanolin Alcohols

Ritawax (Lanolin Alcohol) is also prepared through the saponification of Lanolin. It is a hard yellow solid with higher melt point.

Ritachol (Mineral Oil and Lanolin Alcohol). This product is an excellent moisturizer, lubricant, penetrant and emollient.

- Stabilizer for o/w emulsions and multi-phase dispersions
- Anhydrous, oil miscible, water dispersible
- Has the ability as an absorption base to take up 10-15 times its weight in water

KEY FEATURES/BENEFITS

- Water absorbent
- Auxiliary emulsifier
- Hardener for wax systems
- Thickener

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Lanolin & Lanolin Derivatives

Cholesterol NF

Cholesterol NF is a white powder that is derived from wool grease via saponification, fractionation and purification. **Cholesterol** is a mono-unsaturated secondary alcohol of the cyclopentanophenanthrene system. It is a sterol that produces the emollient effect of lanolin alcohols. The hydrophilic nature of cholesterol is effective in the treatment of irritated, dry and chapped skin and dry, damaged hair. **Cholesterol** is added to cosmetics and skin care products primarily to support the skin's natural barrier function and improve the moisture content. It is also a good skin-conditioning agent and emulsifier. Recommended use level is 1-10%.

KEY FEATURES/BENEFITS

- Moisturizer
- w/o emulsifier and stabilizer
- Emollient
- Conditioner
- Protectant

Lanolin Wax

Lanolin wax is the mixture of high melting esters that remain after the Lanolin oil is removed from Lanolin by fractional solvent crystallization or vacuum distillation. This product is a better water/oil emulsifier than whole Lanolin. It improves consistency and stability in lip products as well as viscosity stability of creams and lotions.

KEY FEATURES/BENEFITS

- Good thickening agent
- Hardener for wax systems (lipsticks and makeups)
- Improves w/o emulsification

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Lanolin & Lanolin Derivatives

Lanolin Oil

Ritalan (Lanolin Oil), or liquid lanolin, is produced with a solvent crystallization process that separates the waxy esters from the original esters. Solid esters are separated from liquid esters via a low temperature solvent crystallization fractionation process. These liquid esters contain a high concentration of lower molecular weight, branched chain, hydroxy compounds.

KEY FEATURES/BENEFITS

- Moisturizer
- Emollient
- Conditioner
- Protectant

Acetylated Lanolin Alcohol Blends

- **Ritawax ALA** (Cetyl Acetate, Acetylated Lanolin Alcohol)
- **Ritawax AEO** (Polysorbate 80, Cetyl Acetate, Acetylated Lanolin Alcohol)

When Lanolin alcohol is reacted with acetic anhydride it produces Acetylated Lanolin Alcohol.

KEY FEATURES/BENEFITS

- Provides a good moisture barrier
- Excellent emollient
- Provides sheen and conditioning for hair products
- Super fatting agent and foam stabilizer for detergent systems
- Soluble in oils
- Improves rub-out and cosmetic elegance
- Good vehicle for medicaments
- Degreases and detackifies emulsion systems

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Lanolin & Lanolin Derivatives

HAIR
Wax

DI Water	Q.S. to 100%
Acritamer FD21 Acrylates/C10-30 Alkyl Acrylate Crosspolymer	**0.30%**
RITA Glycerin, USP Glycerin	**2.00%**
Lanolin Wax Lanolin Wax	**5.00%**
RITA Cetearyl Alcohol 50/50 Cetearyl Alcohol	**4.00%**
Cetyl Esters NF Cetyl Esters	**2.00%**
Ritapro 300 Cetearyl Alcohol, Ceteareth-20	**1.50%**
Ritasil DM 100 CST Dimethicone	**2.00%**
Ritapeg 40 HCO PEG-40 Hydrogenated Castor Oil	**1.00%**
NaOH, 20%	1.00%
RITA PVP K-30 (30% soln') PVP	**5.00%**
RITA PVP/VA 73W VP/VA Copolymer	**3.00%**
Ormagel XPU PE Hypnea Musciformis Extract, Gellidiela Acerosa Extract, Sargassum Filipendula Extract, Sorbitol	**0.50%**
Phenoxyethanol Phenoxyethanol	**1.00%**

BEARD
Oil

Ritalan Lanolin Oil	**30.00%**
RITA Olive Oil Olea Europaea (Olive) Fruit Oil	**30.00%**
RITA SAO Prunus Amygdalus Dulcis (Sweet Almond) Oil	**20.00%**
RITA Canola Oil Canola Oil	**20.00%**

LIP
Gloss

Lanolin USP (Extra-Deodorized) Lanolin	**50.00%**
Ritalan Lanolin Oil	**39.00%**
RITA Castor Oil Ricinus Communis (Castor) Seed Oil	**10.00%**
RITA Vitamin E Acetate Tocopheryl Acetate	**0.50%**
Flavoring	**0.50%**

MOISTURIZING
Cream

DI Water	Q.S. to 100%
Ritamulse SCG Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate	**8.00%**
Shebu Refined Butyrospermum Parkii (Shea) Butter	**5.00%**
Lanolin USP Lanolin	**4.00%**
Vitamin E Acetate Tocopherol Acetate	**2.00%**
Ritasil DM 350 CST Dimethicone	**0.50%**
Ritalac NaL Sodium Lactate	**2.00%**
Phenoxyethanol Phenoxyethanol	**1.00%**

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LANOLIN, LANOLIN DERIVATIVES PROPERTIES

		PRODUCTS								
		Lanolin	Laneto	Laneto AWS	Lanolin Wax	Ritalafa	Ritalan	Ritawax	Ritawax AEO	Ritawax ALA
PROPERTIES	Emollient	X	X				X	X	X	X
	Skin Penetrant	X								
	Good Skin Feel	X	X	X			X		X	X
	Moisturizer	X	X	X			X			
	w/o Emulsifier	X			X	X				
	Adhesive/Cohesion	X								
	Assist in Skin Respiration	X								
	Water Absorption	X						X		
	w/o Emulsifier/Stabilizer	X						X		
	Thickener				X			X		
	Provides Moisture Barrier	X				X	X			
	Spreading Agent						X		X	X
	Sheen/Hair Conditioner		X						X	X
	Foam Stabilizer		X	X						
	Oil Soluble	X				X	X		X	X
	Water/Alcohol Soluble		X	X						
	Improves Rub-Out									
	Detackifier								X	X
	Hardener for Wax Systems				X			X		
	Dispersant for Pigments	X				X				
	Conditioner						X			
	Vehical for Medicaments	X								
	Prevents Defatting	X	X	X		X				

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LANOLIN, LANOLIN DERIVATIVES APPLICATIONS

		PRODUCTS								
		Lanolin	Laneto	Laneto AWS	Lanolin Wax	Ritalafa	Ritalan	Ritawax	Ritawax AEO	Ritawax ALA
APPLICATIONS	Hair Preparations	X	X	X	X	X	X		X	X
	Skin Care Products	X	X	X	X	X	X	X	X	X
	Make-Up	X		X	X	X		X	X	X
	Shaving	X	X		X	X	X			
	Eye Make-Up	X			X	X	X	X	X	X
	Sunscreen Products	X			X	X	X		X	X
	Colognes and After Shave	X	X	X	X		X		X	X
	Bath Products	X	X	X			X		X	X
	Baby Products	X	X	X			X			
	Wipes		X	X						
	Co-Emulsifier for w/o	X								
	Cleansers		X							
	Lip Products				X			X		
	Static Reduction		X							
	Gellant - Oils & Detergents					X				

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Eco-Friendly Meets Zero Waste Innovation

Substantially Anhydrous Surfactants

Low water, specialty surfactants ideal for use in water-soluble pre-dosed applications.
Free from sulfates, preservatives, parabens, dioxane, phthalates, silicones, PEGs and EO.

- Green & Clean
- Plant-based Ingredients
- High Foaming
- USDA Biobased Certified
- RSPO MB Certified Palm
- NO PROP 65 Substances
- Readily Biodegradable

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