



Kostol
NatureMuls

NATURAL LUXURY EMULSIFIER

Kostol NatureMuls is a natural oil-in-water emulsifier designed to easily produce elegant, shiny emulsions. This emulsifier will make emulsions with medium to long breaks, regardless of the viscosity. Create opulent feeling emulsions without hurdles, and create textures for all price points from mass market to extreme high end.

Key Features & Benefits

- PEG-Free & Natural
- All-in-One Emulsification System
- Primary Emulsifier
- Emulsion Break: Medium to long
- Oil-in-water
- Self-emulsifying



Applications

Kostol NatureMuls is a versatile emulsifier that can be used in natural and conventional formulations. For use in all personal care products for leave-on or wash-off applications including the following:

Skin Care

- All Emulsions: Lotions & Creams
- Sun Care
- Baby Care
- Mousse
- Masks
- Serums
- Shave Preparations

Hair care

- Treatments
- Conditioning

Color cosmetics

- Emulsions
- Foundations
- Mascara

Clean beauty

Kostol NatureMuls meets the ISO 16128 definition of natural ingredient and its natural origin index is $0.5 < X < 1$. It is also and approved for use* with leading clean beauty brands including but not limited to: Clean at Sephora, Credo Beauty and Whole Foods Premium Body Care.

* at time of print

Product characteristics

INCI: Candelilla/Jojoba/Rice Bran Polyglyceryl-3 Esters, Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate

- **Typical Usage Levels:** 2-8%
- **pH Range:** 5-12 HLB
- **HLB Value:** 6-8
- **Form:** Pastilles
- **Package:** 25kg Boxes



Formulation Guidelines

- Easy to use. Combine emulsifier with the oil phase and heat until phase is melted and homogeneous. Add to hot water phase and mix with conventional mixer (propeller or paddle) at high speed until emulsion is formed. Cool with medium speed until pour temp (40C or lower).
- Lab results show homogenization does not negatively affect the emulsifier and can be used as needed for complex systems.
- Need to increase the oil to emulsifier ratio beyond 3:1? This is attainable by using additional support thickeners and stabilizers.

Natural Emulsification

Formulating natural emulsions are no longer cost prohibitive or difficult with Kostol NatureMuls. This peg-free emulsifier was created by Koster Keunen scientists and starts with plant-based waxes and lipids. It has the ability to support the entire system as the only emulsifier you require, or choose to use it as the primary emulsifier or co-emulsifier for specific textures, and bounce.



This emulsifier checks all the boxes for my lab. It is my preferred emulsifier when formulating natural because it is so dependable. I find that all levels of Kostol NatureMuls provides a fantastic feel and different percentages contributes to the sensorial attributes of the emulsion.

Chemist with 15 years of personal care experience.



Deep Rich Texture

Specifically developed to deliver lavish lotions, these comforting, richly textured emulsions wrap skin in softness to restore skin's natural radiance and beauty. Create a rich, velvety and nourishing product coupled with formulators choice of actives to deliver the perfect beauty cream with the specifics desired. Emulsions made with NatureMuls will have a medium to long break with velvety cushion. Looking to produce a high-end lotion or serum? Require a pourable or pumpable finished product? Formulations can still benefit from the same cushion and luxury when using reduced amounts of Kostol NatureMuls in their formula. To support the system, just choose additional water stabilizers that fit benchmark requirements.

Flexible formulating

From lotions to body butters, NatureMuls will give silky, substantial textural qualities to any finished product whether economical or high end. Generate flowable and pumpable lotions at low percentages up to thick creams as you increase the amount of Kostol NatureMuls. In all cases, produce luxurious non-greasy emulsions suitable for all skin types.

The Night cream

Formula: #8/20-577/587-3

- Thick & creamy O/W Emulsion for ultra-moisturized feel
- Incredibly rich & luxurious after-feel
- Clean ingredient formula

Procedure, Stability & Suppliers
Upon Request

INCI Name	%
Phase A	
Aqua	63.4
Glycerin	4.0
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.1
Sodium Hydroxide (10%)	0.4
Phenoxyethanol, Caprylyl Glycol	1.0
Phase B	
Kostol NatureMuls	7.0
NaturalAtum	6.5
Kester Wax K-24	5.0
Kester Wax K-48	3.5
Pentaerythrityl Tetraisostearate	4.0
Caprylyl/Capric Triglyceride	5.0
Tocopheryl Acetate	0.1

**Koster Keunen Offers a Range of Emulsifiers
for All of Your Formulation Requirements.**

Contact Us Today for Further Information.