

# Koboguard® Natural 2063

## Natural Origin Oil Soluble Film Former Solutions



In response to the strong demand for natural ingredients, chemists have become devoted to developing green chemicals instead of petroleum derived ingredients.

The resin used for **KOBOGUARD® NATURAL 2063 Solutions** is extracted from pinewood harvested from managed pine forests located in United States. It is **naturally derived** and reforestation ensures **sustainable** feedstock reserves. This resin (INCI Name:Glyceryl Hydrogenated Rosinate) is

highly hydrogenated, exceptionally pale and has outstanding resistance to oxidation and discoloration. It is allergen-tested, which makes it particularly suitable for use in skin contact products. It is available as 50% solutions in natural origin carriers.

Product Name	INCI Name	Composition	Active %
KOBOGUARD® NATURAL 2063-CCT	<i>Glyceryl Hydrogenated Rosinate (And) Caprylic/Capric Triglyceride</i>	Non-volatile Liquid Film Former	50
KOBOGUARD® NATURAL 2063-NDA	<i>Glyceryl Hydrogenated Rosinate (And) C9-12 Alkane</i>	Volatile Liquid Film Former	50

### KOBOGUARD® NATURAL 2063 Resin Physico-chemical Characteristics

INCI Name	Glyceryl Hydrogenated Rosinate
Origin	Pinewood
Refractive index	1.502
Average Molecular Weight	450
Specific Gravity	1.07
Glass Transition Temp. (Tg)	29.5 - 37.5 °C
Softening Point Temp.	69 - 77 °C
Melt Viscosity (160 °C)	70cPs
Flash Point	175 °C

### Formulation Benefits

- Extended Wear-time (Long-wear & Semi-permanent Formulations)
- Enhanced Adhesion
- Uniform Film Application
- Water-repellency
- Adds Gloss/Shine
- Very Good Affinity To Hair, Skin, And Nails

### Product Benefits

- Modifies viscosity
- Hydrophobic binder for pigments
- Hair binding agent
- Softens waxes
- High refractive index = 1.502
- Lower surface energy than hair
- Can act as a plasticizer for polymers
- Can aid in solubilizing organic additives
- Can be hot or cold processed in formulas
- Easy to use for formulation development
- Reduces mixing time for manufacturing

**KOBO**

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## Applications

KOBOGUARD® NATURAL 2063 CCT and NDA solutions can be used in a wide variety of formulas, with similar or superior performance compared to existing synthetic ingredients.



Applications	Benefits	Use Levels %	Formulation Types
Mascaras, eyeliners, brows, eye shadow, under eye concealer, decorative hair products	Improve even application and extend the wear throughout the day or evening	5 - 18	O/W or W/O emulsions, powders, anhydrous gels or stick formulations
Lipsticks, lip glosses, and lip liners, lip balms and other lip care products	Improve even application and reduce color transfer, help retain moisture and protection	5 - 20	Anhydrous gels or stick formulations and also in o/w or w/o emulsions
Foundation make-up, primers or color correcting makeup	Serve as important binders either alone or in combination with other ingredients for pressed powders, improve water-resistance and contribute to long wear	1 -10 (as binders) 5 - 15	Emulsions or anhydrous systems, liquids, gels, sticks, or poured compact foundation
Sunscreens and sun care products	Improve leveling upon application and water-resistance contributing to longer wear time	5 - 10	Emulsions, sprays, sticks, and gels
Nail enamels or decorative nail effects	Improve leveling upon application, suspension of pigments, and can help to plasticize nail polymers	5 - 10	Nail enamels, primers and top coats, as well as decorative nail products
Hot or cold wax depilatory products	Improves hair removal, they can form transparent cold wax products aid in softening hard waxes for hot wax	25 - 50	Waxes, creams, gels, or anhydrous liquid products



KLG-104

## Natural Glossy Balm

### Part 1

- Crystal® O - Vertellus LLC:  
*Ricinus Communis (Castor) Seed Oil* 55.60%
- CO15M5 - Kobo Products:  
*Ricinus Communis (Castor) Seed Oil (And) Silica* 10.15%
- KOBOGUARD® NATURAL 2063-CCT - Kobo Products:  
*Glyceryl Hydrogenated Rosinate (And) Caprylic/Capric Triglyceride* 15.00%
- Plandool™-MAS - Nippon/Kobo Products:  
*Phytosteryl Macadamiate* 4.00%
- Plandool™-LG3 - Nippon/Kobo Products:  
*Phytosteryl/Behenyl/Octyldodecyl Lauroyl Glutamate* 3.00%
- Sunflower Wax - Koster Keunen:  
*Helianthus Annus (Sunflower) Seed Wax* 2.00%

### Part 2

- OD75RJE - Kobo Products: *Iron Oxides (CI 77491) (And) Octyldodecanol (And) Jojoba Esters (And) Trihydroxystearin* 0.30%
- GCG50TRSG - Kobo Products: *Iron Oxides (CI 77491) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid* 0.20%
- GCG50TYSG - Kobo Products: *Iron Oxides (CI 77492) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid* 0.20%
- CO40SS - Kobo Products: *Sodium Saccharin (And) Ricinus Communis (Castor) Seed Oil (And) BHT* 0.05%

### Part 3

- MSS-500W - Kobo Products: *Silica* 2.50%
- KTZ® EXTRAFINE SUNGLOW - Kobo Products:  
*Mica (And) Iron Oxides (CI 77491)* 2.00%

### Manufacturing Procedure

1. Combine liquids of Part 1, start to heat to 85-90°C. Prop mix for 1 hour minimum (make sure that waxes are all dissolved and Part 1 is clear when hot).
2. Pre-mix Part 2, then add to Part 1 while propeller mixing. Mix until batch is uniform.
3. Pre-blend Part 3, then add to Parts 1 and 2 slowly. Do not entrap air. Mix until batch is uniform.
4. Pour at 75-80°C directly into lip balm components.

### Description

A sheer, buildable natural tinted lip balm with moisture barrier repair properties. KOBOGUARD® NATURAL 2063-CCT, a natural origin film former, provides a long-lasting flexible film. CO15M5 is a castor oil based fumed silica gellant which imparts emolliency and cushion to the application. The combination of Plandool™-MAS and Plandool™-LG3 provide moisture barrier repair properties to the lips. OD75RJE, GCG50TRSG and GCG50TYSG create the background color. CO40SS adds a pleasant, sweet taste. MSS-500W improves payoff and blurs fine lines. KTZ® EXTRAFINE SUNGLOW contributes to and complements the shade.

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*Koboguard® Natural 2063*

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