



IOI OLEOCHEMICAL



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PERSONAL CARE

# DYNASAN<sup>®</sup> CrystalCONTROL L

FORMULATOR'S JEWEL FOR WORRY-FREE PROCESSES

Natural vegan polymorphic-free solid lipid,  
helping to control crystallization and  
coloring processes, while offering better  
moisturization, gliding and pay-off





# DYNASAN® CrystalCONTROL L

FORMULATOR'S JEWEL FOR WORRY-FREE PROCESSES

## ABOUT...

- Polymorphic-free solid lipid
- Controls (re-)crystallization of polymorphic ingredients and thus controls blooming in lipid based anhydrous systems
- Batch-to-batch consistent quality and white color
- Easy-to-work with (broadly compatible, flakes)
- No seasonal variation linked to inconsistent raw materials supply
- Lead to a significant improvement of skin moisturization from the first application
- Film-forming, diminishes transepidermal water loss (TEWL)

## ...SENSORIAL...

- High gliding for easy applications on lip, eye, face and body
- Pleasant pay-off for more vivid colors
- Creamy feel, melting on skin
- Anhydrous formulas with DYNASAN® CrystalCONTROL L show:
  - High gliding
  - High pay-off
  - Low stickiness
  - Low oiliness
  - Medium film-forming

## ...EMOTIONS

- 100 % renewable sources (RSPO MB Palm, Rapeseed, Castor & Sunflower)
- 100 % natural (ISO 16128 NOI of 1.0, COSMOS and NaTrue conform)
- Vegan compatible
- Worry-free (re-)heating and cooling process – DYNASAN® CrystalCONTROL L always shows its stable, lowest energy form
- Less out-of-specification batches, increased production output, less production waste
- Contributes to a higher trust in brand

### Blooming Effect

Blooming is an effect that occurs when certain solid components of a material mixture change their state of crystallinity at microscopic level leading to a change in macroscopic level observed as white spots.



Materials causing blooming are especially triglycerides like natural butters or waxes.

**DYNASAN® CrystalCONTROL L helps to:**

- Control crystallization in formulas
- Delay or even cancel blooming effect
- Allow worry-free heating & cooling processes

### Consistent White Color

DYNASAN® CrystalCONTROL L offers a consistent white color.



Lipsticks and balms with DYNASAN® CrystalCONTROL L show lighter color values and ease color matching process for color formulators

### INCI

Polyglyceryl-3 Tetrastearate

### APPEARANCE, COLOR & ODOR

White solid (flakes) with characteristic odor

### DESCRIPTION

Natural ester based on polyglycerin and stearic acid

### RECOMMENDED CONCENTRATION

5 – 20 % for sticks and solid cosmetics  
2 – 10 % for balms



### MELTING RANGE

58 – 64 °C

## BENEFITS FOR...



### ...FORMULATOR

- Broadly compatible
- Helps controlling blooming effect
- Consistent batch color



### ...PRODUCTION

- Easy to manipulate
- More output and batch conformity
- Contributes to lower wastes



### ...BRAND

- May help lower environmental impact
- Helps prevent blooming at customers
- Contributes to a higher trust in brand



### ...CONSUMER

- High gliding for easy applications
- Pleasant pay-off for more vivid colors
- Moisturizing, skin barrier protecting

