



Liponate® BDP

Smooth Spreadability & Touch



PRODUCT: Liponate® BDP

EINECS #: Exempt

INCI NAME: Bis-Diglyceryl Polyacyladipate-2

CAS #: 82249-33-0

WHAT IS LIPONATE® BDP?

Liponate® BDP is a paste-like ester with smooth spreadability and touch. Although viscous, this material is easy to use in formulations. **Liponate® BDP** was developed as a substitute for lanolin.

WHAT DOES LIPONATE® BDP DO?

In lipsticks and color cosmetics, **Liponate® BDP** adds a glossy finish and increases color payoff, leaving vivid color on the lips. **Liponate® BDP** creates a strong stick structure while still providing a creamy application and feel. When added to color cosmetics formulations, **Liponate® BDP** improves smoothness and glide.

In skin care formulations, **Liponate® BDP** provides a substantive film to protect and moisturize the skin. In hair care, **Liponate® BDP** adds structure and glide to hair styling products such as pomades and hair waxes.

KEY BENEFITS

- Excellent gloss + high shine
- Pigment dispersion
- High water-holding capability
- Stable against oxidation
- Vegetable derived

TYPICAL PROPERTIES OF LIPONATE® BDP

Appearance @25° C	Light yellow to yellow-brown paste
Odor	Characteristic
Saponification Value	260 - 280
Melt Point	39° C
Recommended Use Level	2-30% – Lip Products 2-5% – Skin Care and Hair Care

IDEAL FOR USE

- Lipstick + Lip Gloss
- Moisturizing Creams and Lotions
- Hair Styling and Pomades



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LIPSTICK STUDIES

STUDY 1

Lipstick Characteristics Study

A simple lipstick evaluation study was conducted to determine the sensory characteristics and stick structure properties using **Liponate® BDP** in Formulation 1.

Evaluations showed that **Liponate® BDP** (at a 4% use level) adds performance benefits to the wax stick structure. **Liponate® BDP** enhanced the stick structure as indicated by a stick breakage value of 1.38 (value in pounds force). Desired breakage values for this test formulation would be in the range of 1.0 to 1.4. **Liponate® BDP** also produces a lipstick with a creamy feel and glide with improved payoff when tested on skin.

FORMULATION 1

Liponate® TDTM (Tridecyl Trimellitate)	70.00
Lipobee 102 (Synthetic Beeswax)	8.00
Carnauba Wax	4.00
Candelilla Wax	4.00
Liponate® BDP (Bis-Diglyceryl Polyacyladipate-2)	4.00
Preservative	qs
Lipomic® 601 (Mica)	1.00
Colorona Russet	1.00
TiO2 60% grind in Liponate® TDTM	2.50
Iron Oxide Red 60% grind in Liponate® TDTM	5.50
	100.00%

STUDY 2

Lipstick Evaluation by Panelists

A second lipstick evaluation was conducted by a trained panel using Formulation 2.

Results

The panelist results show that **Liponate® BDP** provides excellent pay-off on the lips with a smooth and comfortable feel. The lipstick melts upon application providing softness and moisturization.



Liponate® BDP provides vivid color, gloss and shine. See photo above.

FORMULATION 2

Liponate® BDP (Bis-Diglyceryl Polyacyladipate-2)	24.40
Liponate® TDTM (Tridecyl Trimellitate)	18.00
Synthetic Wax	4.50
Lipovol® GTB (Tribehenin)	2.50
Vitamin E	0.50
Iso Jojoba™ 50 (Simmondsia Chinensis (Jojoba) Butter)	2.00
Panalane® L-14E (Hydrogenated Polyisobutene)	17.00
Lipo IHD 101A (Isohexadecane)	10.00
Lipovol® C-76 (Cocos Nucifera (Coconut) Oil)	7.00
Candelilla Wax	5.50
Jojoba Wax Flakes (Hydrogenated Jojoba Oil)	2.50
Preservative	0.50
Flavor	0.30
Color Dispersion	0.80
Sparkle Mica	4.50
	100.00%

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