

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

IDEAL FOR USE

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

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



EMOLLIENTS

Liponate® BDP

Smooth Spreadability & Touch

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%

 **Vantage**

All data, including the formulations and procedures discussed herein, to the knowledge of Vantage Specialty Chemicals, Inc. (Vantage), are believed to be correct, reliable and accurate. Please note; however, that Vantage does not warrant or guarantee any accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's particular use (including performing any necessary confirmatory tests). Vantage is not responsible or liable for any loss or damage that may occur from the use of this information, nor do we warrant against any patent infringement. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

EMOLLIENTS