



## UNITWIX™ II

### **Description:**

UniTwix II is a wax based thickener and feel modifier for lipophiles and formulas with significant lipophilic character. In addition to thickening the oil phase of formulations, Unitwix II lends a dry, but lubricating feel to skin care products.

UniTwix II is composed of long chain fatty acids esterified with chains of equal length. UniTwix II is a waxy composition that is soluble in a wide range of organic compounds ranging from liquid fatty acids (saturated or unsaturated) to long chain organic acids.

### **Uses:**

Create a drier feel by using Unitwix II in your creams, lotions, and stick products. Acts as a water repellent which can enhance the effectiveness of sunscreens. It is also effective at reducing the evaporation of water through the epidermis which can result in dry, cracked, and unhealthy looking skin.

UniTwix II may be used in lipstick products to manage hardness, payoff, gloss, and lend a dry feel.

Benefits in makeup include high pigment holding capacity, contributing to a dry feel, enhancement for "no-smudge" products and suitable for dry-liquid-powder products.

Emulsion products benefit from increased stability by increasing oil phase viscosity and it also contributes a dry feel.

### **TYPICAL USE LEVELS**

O/W Emulsions: 1-5%  
W/O Emulsions: 5-10%  
Lipsticks: 5-20%  
Makeup: 1-15%  
Sunscreens: 3-6%  
Perfume Sticks: 15-30%

UniTwix II is easy to use. The oil phase should be heated to about 60°C, and then the UniTwix II added with stirring.

### **Nomenclature:**

CAS: 8002-53-7, 8015-86-9, 555-43-1,  
INCI: Bleached Montan Wax and Copernicia Cerifera (Carnauba) Wax and Tristearin  
EINECS (Europe): 232-313-5, 232-399-4, 209-097-6  
DSL/NDSL (Canada):8002-53-7, 8015-86-9,555-43-1  
ENCS (Japan): N/A, N/A, 2-669X  
AICS (Australia): All components comply

### **Typical Properties:**

These values are typical properties only and not necessarily specifications. Specifications and test methods are available upon request.

Form	Waxy Solid
Color	Light Yellow to Light Beige
Acid Value	1.0-9.0
Saponification Value	53-68
Melting Point	68-80°C

### **Testing:**

A summary of safety data based on tests performed by the raw material suppliers is available upon request

### **Derivation:**

No animal derived ingredients are used in the manufacture of UniTwix II. All raw materials used in UniTwix II are of synthetic or vegetable origin.

### **Storage and Handling:**

There are no special storage or handling requirements for UniTwix II.

### **Availability:**

UniTwix II is available in 25-pound pails and 225 pound drums.

Contact Guardian Laboratories for information about samples or sales.