



## ZENINUT MAC<sup>®</sup>

Zeninut MAC<sup>®</sup> is a unique polyester made from naturally derived dimer alcohol, dimer acid, Guerbet Alcohol and Organic Macadamia Nut Oil. This branched polyester which has a molecular weight of 10,000+ is a hydrophobic product that can be used in a variety of hair, colour, skin and sun care applications. Zeninut MAC<sup>®</sup> offers superb barrier qualities making it a wonderful product with dramatic effects in skin and sun care applications as well as in products for dry hair and scalp. It delivers the benefits and qualities of Organic Macadamia Nut Oil directly to the skin, and its hydrophobic nature prevents it from washing off.

### TYPICAL PROPERTIES

<b>Appearance at 25 °C:</b>	Clear liquid.
<b>Odour:</b>	Typical ester
<b>Colour (Gardner):</b>	4 Max
<b>Acid Value (mg KOH/g):</b>	2 Max
<b>Refractive Index:</b>	1.45 to 1.49

### GLOBAL DESIGNATIONS

**Adopted INCI Name:**

Octyldodecyl Dimer Dilinoleyl Alcohol / Succinic Acid / Copolymer, Macadamia Ternifolia

<b>CAS Reg. No.:</b>	874013-21-5, 129811-19-4
<b>EINECS:</b>	Polymer Exempt
<b>ECOCERT:</b>	Pending
<b>Canada (DSL):</b>	Pending
<b>China (IECSC):</b>	Pending
<b>Australia (AICS):</b>	Pending
<b>Korea (ECL):</b>	Pending
<b>Japan (ENCS):</b>	Pending

### STORAGE AND PACKAGING

Zeninut MAC<sup>®</sup> has a normal shelf life of 36 months when stored in sealed unopened containers in a cool dry location at temperatures between 15°C and 25°C.

Zeninut MAC<sup>®</sup> is available in 16 kg pails and 95 kg drums.

### SOLUBILITY AND COMPATIBILITY

(Zeninut MAC<sup>®</sup> @ 10% & Solvent @ 90%)

Solvent	50 °C	25 °C
Water	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Glycerin (96%)	<i>DISPERSIBLE</i>	<i>DISPERSIBLE</i>
Propylene Glycol	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Mineral Oil	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Isopropyl myristate	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Cyclomethicone	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Octyl palmitate	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Eutonol G	<i>SOLUBLE</i>	<i>SOLUBLE</i>
DC-200	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Ethanol (95%)	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Castor Oil	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Safflower oil	<i>SOLUBLE</i>	<i>SOLUBLE</i>

### APPLICATIONS

**Skin Care:**

Moisturizers, skin creams & lotions, liquid soaps, and body washes.

**Sun Care:**

Spray able sunscreen creams & lotions, after sun moisturizers, and lip balms.

**Hair Care:**

Moisturizing hair creams, Conditioners for badly damaged hair, and shampoos.

**Colour Care:**

Lip sticks and foundations.

**Typical Use Levels:** 0.5 to 10.0 %

