

# ALZO International Inc.

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## TECHNICAL BULLETIN

### DERMOL 816

Chemical Name: 2-Ethylhexyl Hexadecanoate  
INCI Name: Ethylhexyl Palmitate  
CA Index Name: Hexadecanoic Acid, 2-Ethylhexyl Ester  
CAS Number: 29806-73-3  
EINECS Number: 249-862-1  
Molecular Formula:  $C_{24}H_{48}O_2$

#### TYPICAL PROPERTIES:

Appearance @ 25°C	Clear Liquid
Color, APHA	20
Odor	Typical, Bland
Specific Gravity @ 25°C	0.885
Pounds per Gallon @ 25°C	7.12
Refractive Index @ 25°C	1.4455
Molecular Wt. (Theoretical)	368
Ester Content, %	98
Freeze Point, °C	4.0
Acid Value, mg KOH/gr	1.0
Free Organic Acid as Palmitic (Mol. Wt. 256), %	0.45
Saponification Value, mg KOH/gr	150
Iodine Value	1.0
Flash Point, °C (COC)	Over 170
Required HLB	10 – 11

#### SOLUBILITY:

Soluble in very high hydrophobic solvents such as esters, mineral oil, mineral spirits and aromatic hydrocarbons.

Dispersible in glycols, glycol ethers and glycerol.

Insoluble in water, glycerine, propylene glycol, PEG-400 Sorbitol (70%) and Ethyl Alcohol (0%).

#### SUGGESTED APPLICATIONS:

**Dermol 816** is a rich non-oily emollient ester which finds numerous applications in cosmetic and personal care products including color cosmetics such as make-up and lipsticks and also hair sprays where it gives sheen without greasiness. In antiperspirants, it acts as an anticlogging/suspending agent. In skin creams, suntan lotions, bath oil and after shaves, it provides a soft, velvety feel.

This information is believed to be reliable, but it is not to be construed as a warranty and no patent liability can be assumed.