

ALZO INTERNATIONAL INC.

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TECHNICAL BULLETIN

BERNEL ESTER CO

Chemical Name : Cetyl 2-Ethyl Hexanoate
INCI Name : Cetyl Octanoate
CA Index Name : Hexanoic Acid, 2-Ethyl-, Hexadecyl Ester
CAS Number : 59130-69-7
EINECS Number : 261-619-1

SPECIFICATIONS:

Appearance @ 25°C	Clear Colorless to Pale Yellow Liquid
Color, APHA	50 Max
Odor	Slight, Characteristic
Specific Gravity @ 25°C (Typical)	0.850
Pounds per Gallon @ 25°C	7.1
Refractive Index @ 25°C	1.4410 – 1.4450
Molecular Weight (Theoretical)	368
Cloud Point, °C (Typical)	-2.0
Acid Value, mg KOH/gram	1.0 Max
Free Fatty Acid as Octanoic Acid (Mol. Wt. 144)	0.3 Max
Saponification Value, mg KOH/gr	140 – 160
Iodine Value	1.0 Max
Flash Point, °C (COC)	Over 170

SOLUBILITY:

Soluble in most organic solvents such as silicones, alcohols, ester, ketones, mineral oil, natural fats, higher glycols, glycol ethers, aliphatic, aromatic and chlorinated hydrocarbons. Insoluble in water, lower molecular weight diols and triols.

SUGGESTED APPLICATIONS:

Bernel Ester CO is an emollient similar to the natural oil derived from waterfowl. It is an odorless, colorless liquid derived from synthetic sources, thus assuring product uniformity. **Bernel Ester CO** spreads evenly on the skin to impart velvety softness. When incorporated into various creams and lotions, it leaves a long-lasting silk feel on the skin. It can also be used as a make-up remover. Its excellent adhesion properties permit it to function as a waterproofing agent.

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

