

## Specification Sheet - Revised Nov 11/2010

page 1 of 2

<b><u>Product Name :</u></b>	<b><u>Cetyl Myristoleate Complex oil-100% Mixed Cetyl Esthers as an Oil @ 28°C-Vegetable Source</u></b>
<b><u>Product Code :</u></b>	<b>CFA15®/CMO15®*(oil)</b>
<b><u>Product Definition:</u></b>	<b>Cetyl Myristoleate Complex contains cis-9- myristoleate (fatty acid esthers)</b>
<b><u>Product Composition:</u></b>	<b>CFA15®/CMO15® is a special blend of fatty acid esthers</b>
<b><u>Method of Analysis :</u></b>	<b>Gas Chromatograph equipped with Flame Ionization Detector (FID) using 3- to 4-point calibrations</b>
<b><u>Origin :</u></b>	<b>United States</b>
<b><u>Ingredients declaration:</u></b>	<b>cetyl myristoleate 10-15%, cetyl myrsistate 55-70% , other cetyl esthers: 15-35%: cetyl palmitate, cetyl laurate, cetyl palmitoleate, and cetyl Linoleate, cetyl oleate &amp; cetyl stearate</b>

**Chemistry:** Cetyl Myristoleate is the hexadecyl ester of cis-9-tetradecenoic acid, commonly known as myristoleic acid. Myristoleic acid is classified as a monoethenoid fatty acid. The fatty acids raw material for the product is derived from Pycnanthus Angolensis (Nut Source).

<b><u>Physical Characteristics:</u></b>	<b><u>(specifications)</u></b>	<b><u>Test Method</u></b>
Acid Value ;	3-10%	AOCS CD3d-63
Odor:	6% Max-Gardner	
Color above melting point	Clear oil	Visual
Hydroxyl Value	15-25	AOCS CD4-40
Melting Point:	45-48° C	Heat/therm
Appearance:	Clear light amber wax	Visual
<b><u>Heavy Metals:</u></b>		<b><u>Specifications</u></b>
Molybdenum(Mo)		<1.0ppm
Maganese		<1.0ppm
Magnesium(Mg)		<10ppm
Chromium(Cr)		<1.0ppm
Calcium(Ca)		<20ppm
Nickel(Ni)		<1.0ppm
Iron(Fe)		<15ppm
Copper(Cu)		< 3ppm
Phosphorus(P)		< 400ppm
Heavy Metals, as lead		< 0.5ppm
Selenium		<1.0ppm

<b><u>Microbiological:</u></b>	<b>Total Plate Count:</b>	<b>&lt; 100 (CFU/g)</b>
	<b>Yeast &amp; Mold:</b>	<b>&lt; 10 (CFU/g)</b>
	<b>E. Coli:</b>	<b>Negative</b>
	<b>Salmonella:</b>	<b>Negative</b>
	<b>Staphylococcus:</b>	<b>Negative</b>

**Stability:** CMO oil is very stable under ordinary conditions of heat, light, and air.

**Labeling Notice:** Vegetable-derived cetyl myristoleate is from a nut source. Product labels should state:  
"This product is derived from a nut source. Caution is advised for consumers with allergies to nuts.

**Storage Conditions & shelf life:**

Store in a cool, dry place, do not freeze. Shelf life is 5 yrs if stored properly and at room temperature.

**Disclaimer:** The information in this COA is based on information, we believe to be reliable. They are offered in good faith, but without guarantee, as conditions & methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials & suggestions on an experimental basis before adopting them on a commercial scale.

**Technical Director: Yang Xian**

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