



135 Newbury Street, Framingham, MA 01701  
(800) 238-0001 (508) 270-1800 FAX (508) 872-1566  
Website: www.aicma.com Email: info@aicma.com

**Specification Sheet**

**TITANIUM DIOXIDE MICROFINE DISPERSION IN OCTYL PALMITATE 48.5  
(Dispersion 1400)**

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
DTOAU5	1280	13463-67-7	January 4, 2012	ATR	No. 3	MPR

<b>CHARACTERISTICS:</b>	White to off-white semi solid with viscosity of less than 20,000 cps (shear thinning)
-------------------------	---

<b>SPECIFICATIONS:</b>	Titanium Dioxide	46.1-50.9 % w/w
	Microbiological	
	Total bacteria	100 cfu/gm max
	Total yeast/mold	100 cfu/gm max

<b>STOCKING POINTS:</b>	Made to order with 2-3 weeks lead-time. Shipped from Miami, FL
-------------------------	--

<b>PACKAGING:</b>	50 lb pails and 150 lb 15 gal drums
-------------------	-------------------------------------

<b>APPLICATIONS:</b>	Sunscreens and skin care products with SPF
----------------------	--

<b>SPECIAL STORAGE INSTRUCTIONS:</b>	Stable for one year under normal storage conditions in original container. Material is shear thinning (thixotropic) and should be thoroughly mixed before use.
--------------------------------------	--

<b>OTHER:</b>	1 part per weight of Titanium Dioxide normally gives 2 SPF units. Titanium Dioxide and Zinc Oxide can be used together to give an SPF 30. This is the upper limit because viscosities become too high to apply. They can be combined with chemical sunscreens like Avobenzone to reach SPF 50. Effective June 2012 the new FDA regulations are in place defining labeling claims on sunscreen products for <b>broad-spectrum, water resistant, skin cancer</b> , etc. These new regulations should be consulted accordingly.
---------------	---

<b>COMPONENTS:</b>	Microfine titanium dioxide (UF TiO <sub>2</sub> AS) and Octyl Palmitate and Castor Oil Phosphate
--------------------	--

<b>INCI NAME (PROPOSED):</b>	Titanium Dioxide (and) Octyl Palmitate (and) Castor Oil Phosphate (and) Triethoxycaprylylsilane
------------------------------	---