



**COSMETIC
SUPPLIES
USA, INC.**



OCTYL METHOXYCINNAMATE

2-Ethylhexyl 4-methoxycinnamate, also known as Octyl Methoxycinnamate and octinoxate. This compound of the cinnamate group of chemicals absorbs light with a wavelength from 290nm to 320nm, in the UVB range. Although we cannot see ultra violet light, it is part of the sun's spectrum, so we are exposed to it every day. Ultra violet is the component of light that causes keratosis (tanning), erythema (reddening), sunburn, and melanoma. This is because, as the wavelength of UV light is shorter than that of the visible spectrum, it has more energy and therefore can burn our skin.

Ultra violet light has been categorized into three main sections. The wavelength of ultra violet light is shorter than that of the visible spectrum, and UVC is the shortest, and also the most dangerous of the three. UVC's wavelength is from 100nm to 290nm, and luck for us, the ozone keeps all UVC light off the surface of the Earth. UVB light, responsible for sunburn, has a wavelength from 290nm to 320nm. Scientists have not yet determined the full effects of UVA light on our health, but it is under suspicion as a potential cancer-causing agent. It takes hundreds of thousands of times more UVA light than UVB light to achieve the equivalent skin damage. UVA light has a wavelength from 320nm to 400nm.

Appearance at 25° C	Colorless to pale yellow viscous liquid
Odor	Practically Odorless
Assay (GC)	98.0% min.
Refractive Index	1.542-1.548 @ 250°C
Assay	1.0 max. mg. KPH/g
UV absorbance, 1cm	850 min.
A 1%, 1 cm at 310 nm	102 - 202 (1.0% in water)
Solubility	Soluble in Ethanol, Mineral Oil, Silicon Oil, Vegetable Oil. Insoluble in water, Glycerin, Propylene Glycol
Stability	Minimum storage time two years in the originally sealed containers
Storage	Store in tight containers protected from light

The above data is provided for the convenience of the user and does not relieve the user of normal liability for inspection of material upon delivery or prior to actual use. Statements concerning the possible use of our product are not intended as a recommendation to use our product in the infringement of any patent.

8810 Commodity Cir # 20 • Orlando, FL 32819-9066 • 877-926-7872 phone • 877-926-8742 fax