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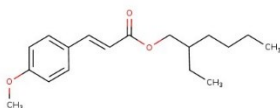
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Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

10 March 2023

Product name:	EHMC
Product Form:	Liquid
Chemical name:	2-ethylhexyl 4-methoxycinnamate
Synonym:	Ethylhexyl methoxycinnamate; UV-505; Octyl methoxycinnamate; Uvinul 3088; Tinosorb OMC; Univul MC 80; Octinoxate
CAS No:	5466-77-3
EINECS No:	226-775-7
Molecular formula:	C ₁₈ H ₂₆ O ₃
Molecular weight:	290
Structure formula:	



Chemical Specification

Appearance	Colorless or light yellow clear liquid
Odor	Very weak, characteristic
Identification (IR)	IR<197F>
Identification (GC)	Retention time corresponds to that of standard
Specific gravity (@25°C)	1.005 – 1.013
Refractive index (@20 °C)	1.542 – 1.548
Acidity (0,1mol/l NaOH, ml)	0.8 max.
A 1%/1cm (310nm in ethanol)	850 min.
Color (Hazen)	70 max.
Assay (GC, %)	95.0 – 105.0
Purity (GC, %)	98.0 min.
Total impurities (%)	2.0 max.
Individual impurities (%)	0.5 max.
Peroxide value (meq/kg)	1.0 max.
Microbiology	
Total aerobic micro count (cfu/g)	100 max.

Total yeast and mold count (cfu/g)	100 max.
Pathogens	
Escherichia coli (in 1g)	Negative
Salmonella (in 1g)	Negative
Candida albicans (in 1g)	Negative
Staphylococcus aureus (in 1g)	Negative
Pseudomonas aeruginosa (in 1g)	Negative

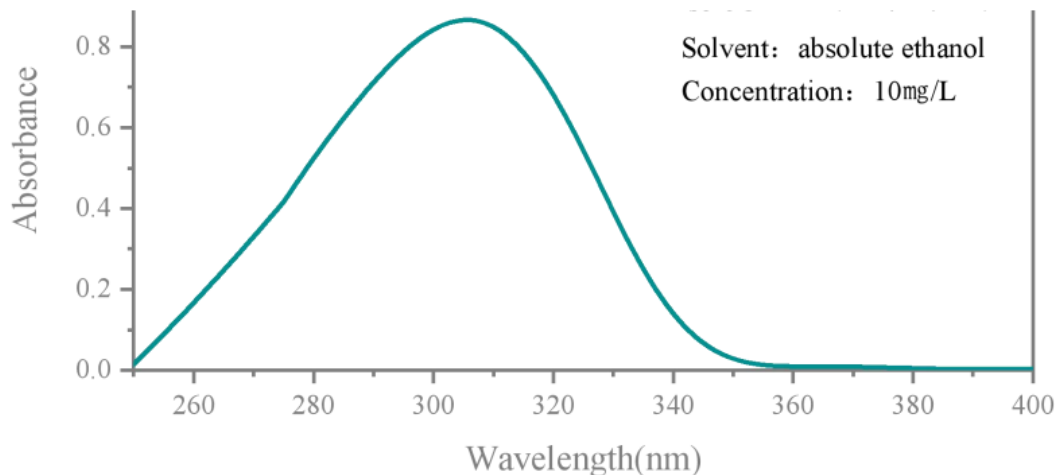
Heavy metals	
Nickel (ppm)	1 max.
Mercury (ppm)	1 max.
Antimony (ppm)	1 max.
Lead (ppm)	5 max.
Arsenic (ppm)	2 max.
Cadmium (ppm)	1 max.
Cobalt (ppm)	1 max.
Chrome (ppm)	1 max.
Total (ppm)	10 max.

Residual solvents: Meets the requirements of ICH/USP

Packing: In 200kgs net drum, 4drums/800kgs net on pallet

Shelf life: 24months

UV Characteristics:



Features and application:

EHMC is approved worldwide and is the most frequently used as a strong UVB filter. It is an oil soluble, colorless, virtually odorless liquid, which remains a liquid at temperature as low as -10°C and can be easily incorporated in the oil phase of a sunscreen formulation. EHMC boosts the SPF when used in combination with other UV filters. It is ideal for the formulation of water-resistant sunscreen products. EHMC is an excellent solubilizer for crystalline UV filters, such as DHHB, BMDBM, DHBT etc.