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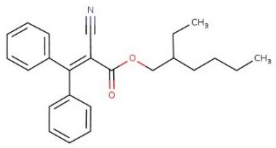
Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

10 March 2023

Product name:	OCR
Product Form:	Liquid
Chemical name:	Octocrilene
Synonym:	2-ethylhexyl 2-cyano-3,3-diphenylacrylate; Univul N 539 T; UV-104; UV-3039
CAS No:	6197-30-4
EINECS No:	228-250-8
Molecular formula:	C24H27NO2
Molecular weight:	361.48

Structure formula:



Chemical Specification

Appearance	Clear yellow viscous liquid
Odor	Faintly characteristic odor
Identification (UV)	Ultraviolet absorption <197U>
Identification (GC)	Retention time to standard
Specific gravity (@25°C)	1.045 – 1.055
Refractive index (@20°C)	1.561 – 1.571
Acidity (0,1mol/l NaOH, ml)	0.18 max.
Specific extinction	6 max.
Assay (GC, %)	95.0 – 105.0
Purity (GC, %)	98.0 min.
Total impurities (%)	2.0 max.
Individual impurity (%)	0.5 max.
Benzophenone (ppm)	200 max.
2-Ethylhexanol (ppm)	500 max.
Microbiology	
Total aerobic micro count (cfu/g)	100 max.
Total yeast & mold count (cfu/g)	100 max.

Pathogens	
Escherichia coli (in 1g)	Negative
Salmonella (in 1g)	Negative
Candida albbicans (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

Features and application:
OCR is an oil-soluble UV-B filter that is approived toruse in suncare preparation in many countries. As it is miscible with many costmetic oils, it can readily be imcorporated in the oily phase of emulsions and it is particularly suitable for water-repellent and water-resistant formaulations. It can be combined with other oil-soluble UV filters such as Benzophenone-3 to give products with a high SPF.
OCR is insensitive to metal ions and effectuve over a wide range of Ph values. It is can be used in Silicone emulsions (polishes, 0,3-1,0%), liquid inks, acrylic, vinyl and otehr adhesives (0,3-1,0%), acrylic resins, urea-formaldehyde resins, alkyd resins, epoxy resins, cellulose nitrate, PUR systems, oil paints, polymer dispersions.