

Technical Information

Uvinul® MC 80

PRD 30055079

Valid since	21.10.2020
Revision	3.0
WF-No.	25655
Page	1 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**UV Filter****INCI name(s)**

Ethylhexyl Methoxycinnamate

Chemical description

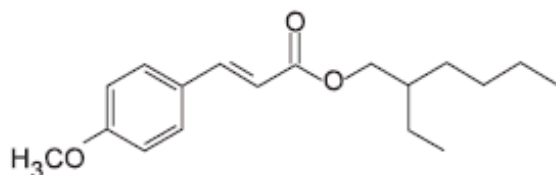
p-Methoxycinnamic Acid 2-Ethylhexyl Ester

Physical form:

Colorless to light yellow liquid

Molecular weight

290 g/mol

Molecular FormulaC₁₈H₂₆O₃**Structural Formula****CASR-No.**

5466-77-3

Ingredient

p-Methoxycinnamic Acid 2-Ethylhexyl Ester

Application

Uvinul® MC 80 is a lipophilic liquid and the most frequently used UVB filter. It is approved worldwide and can be readily incorporated in all formulation types. Its liquid form makes it an excellent solvent for other crystalline UV filters in powder form such as Uvinul® A Plus, Uvinul® T 150 or Tinosorb® S. Uvinul® MC 80 shows high cosmetic elegance; it is odorless and colorless.

Technical Information

Uvinul® MC 80

PRD 30055079

Valid since	21.10.2020
Revision	3.0
WF-No.	25655
Page	2 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**Characteristic values**

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

Quality control data

(Data which is used for quality release and is certified for each batch.)

Test property	Specification	Test method
Characters		
Appearance	Colorless to light yellow	PM/01055
Odor	Very weak characteristic odor	PM/01340
Identification		
Identification	Must comply	USP <Octinoxate> *
Tests		
Assay	95.0 - 105.0 g/100 g	USP
Impurities (GC)	Each individual impurity 0.5 % Total impurities max. 2.0 %	USP
Color Hazen	max. 70 APHA	PM/00914
Refractive Index n(20/D)	1.542 - 1.548	USP
Specific Gravity d(25/25)	1.005 - 1.013	USP
Acidity	Must comply	USP
Peroxide value	max. 1.0 meq/kg	Ph.Eur. 2.5.5 Meth A

Notes:

* Uvinul® MC 80 meets the requirements of this specification and the requirements of the current USP monograph <Octinoxate>.



We create chemistry

Technical Information

Uvinul® MC 80

PRD 30055079

Valid since 21.10.2020
Revision 3.0
WF-No. 25655
Page 3 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals

Storage information

Shelf life

36 months

Storage temperature

Room temperature.

Storage conditions

In original sealed containers and protected from moisture

Stabilising additives / Auxiliaries

Preservatives

not present

Antioxidants

BHT

Solvents

not present

Others

not present

General information

Raw material basis

Synthetic: (mineral oil / natural gas)

Technical Information

Uvinul® MC 80

PRD 30055079

Valid since	21.10.2020
Revision	3.0
WF-No.	25655
Page	4 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**Composition hints for finished product label****INCI Components**

INCI Name (US/EU/CN)	Content
Ethylhexyl Methoxycinnamate (EU/CN)	99.93 %
Octinoxate (US)	

Auxiliaries

INCI Name (US/EU/CN)	Content
BHT	0.07 %

Product properties**Solubility**

Trade name	INCI name	Solubility ability at 25 °C Wt (%)
Uvinul® A Plus (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	39.0
Tinosorb® S (BASF)	Bis-Ethylhexyloxyphenol	17.0
	Methoxyphenyl Triazine	
Uvinul® T 150 (BASF)	Ethylhexyl Triazone	14.0

Technical Information

Uvinul® MC 80

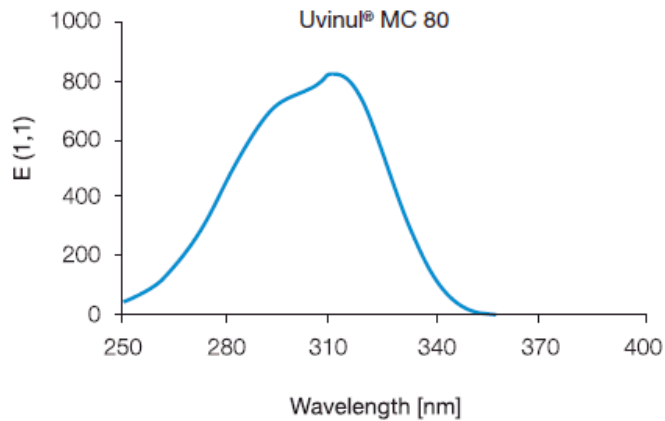
PRD 30055079

Valid since 21.10.2020
Revision 3.0
WF-No. 25655
Page 5 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**Specific technical data**

UV spectrum

**Approval status**

Region	Amount in %
EU	10
Switzerland	10
India	10
Taiwan	10
Korea	7.5
Japan (*)	20
China	10
Australia	10
ASEAN	10
USA	7.5
Canada	8.5
S. America	10
Mexico	10

(*) Japan: limit except for cosmetics coming into contact with mucous membranes



We create chemistry

Technical Information

Uvinul® MC 80

PRD 30055079

Valid since	21.10.2020
Revision	3.0
WF-No.	25655
Page	6 of 6

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals

Miscellaneous information

The article 50380242 of Uvinul® MC 80 complies with the analytical requirements of this specification. It is produced as cosmetic grade for use in personal care applications. It is not produced according to pharmaceutical GMP requirements and must not be used in countries where UV-filters are regulated under pharmaceutical legislation.

Disclaimer

This document, or any answers or information provided herein by BASF, does not constitute a legally binding obligation of BASF. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It does not relieve our customers from the obligation to perform a full inspection of the products upon delivery or any other obligation. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.