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## Technical Information

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04\_050103e-19/Page 1 of 18

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# UV Filters

**Contents**

	<b>Page</b>
<b>Chemical Description</b>	3
<b>BASF UV filter portfolio</b>	3
<b>Applications</b>	3
<b>Use of the BASF UV filters in skin protection</b>	3
<b>Approval status</b>	4
<b>Specification</b>	4
<b>Physicochemical properties of BASF UV filters</b>	4
<b>Uvinul MC<sup>®</sup> 80</b>	5
<b>Uvinul MC 80 N</b>	5
<b>Uvinul T 150</b>	6
<b>Uvinul N 539 T</b>	8
<b>Uvinul MS 40</b>	9
<b>Uvinul A Plus Granular</b>	10
<b>Uvinul A Plus B</b>	12
<b>Tinosorb<sup>®</sup> M</b>	13
<b>Tinosorb S</b>	14
<b>Tinosorb S Aqua</b>	14
<b>Z-COTE<sup>®</sup></b>	16
<b>Z-COTE HP1</b>	16
<b>Stability</b>	17
<b>Toxicology</b>	17
<b>Safety Data Sheets</b>	17
<b>Note</b>	17

## Chemical Description

The Uvinul, Tinosorb and Z-COTE products are UV filters and pigments based on benzophenones, diphenyl cyanoacrylate, cinnamates, triazine, benzotriazole, p-aminobenzoic acid derivatives and zinc oxide.

## BASF UV filter portfolio

	PRD-Nos.	INCI name	CAS-Nos.
Uvinul MC 80	30055079	Ethylhexyl Methoxycinnamate	5466-77-3
Uvinul MC 80 N	30055080	Ethylhexyl Methoxycinnamate	5466-77-3
Uvinul T 150	30035119	Ethylhexyl Triazone	88122-99-0
Uvinul N 539 T	30055082	Octocrylene	6197-30-4
Uvinul MS 40	30035116	Benzophenone-4	4065-45-6
Uvinul A Plus Granular	30338477	Diethylamino Hydroxybenzoyl Hexyl Benzoate	302776-68-7
Uvinul A Plus B	30221690	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	5466-77-3 302776-68-7
Tinosorb M	30482916	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum	103597-45-1 7732-18-5 68515-73-1 57-55-6 11138-66-2
Tinosorb S	30481068	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	187393-00-6
Tinosorb S Aqua	30480431	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Polymethyl Methacrylate (and) Sodium Lauryl sulfate (and) Aminomethyl Propanol	187393-00-6 3011-14-7 1335-72-4 124-68-5
Z-COTE	30083071	Zinc Oxide	1314-13-2
Z-COTE HP 1	30083072	Zinc Oxide (and) Triethoxycaprylylsilane	1314-13-2 2943-75-1

## Applications

The BASF UV filters are used in a large number of cosmetic products to protect the skin or the hair.

Some of the BASF UV filters are typical UVB absorbers, i.e. their absorption maximum lies in the 280 – 320 nm band. Other UV filters, particularly the Tinosorbs are broad-spectrum filters, i.e. they absorb both in the UVA (320 – 400 nm) and the UVB (280 – 320 nm) ranges. One filter absorbs in the UVA range. The metal oxides are micronized pigments with a broad UV attenuation.

As both oil-soluble and water-soluble types are available, there are products for almost every cosmetic preparation, including emulsion, oil, gels, lipsticks, etc. This also applies for the pigments.

## Use of the BASF UV filters in skin protection

UV radiation is responsible for various physiological effects in the skin, as a result of its high energy content. These effects include sunburn, the premature appearance of wrinkles, i.e. accelerated ageing of the skin and, with frequent intensive exposure, an increased risk of skin cancer. UV filters and micro pigments provide vital protection for the skin against these harmful effects of UV radiation. They are now increasingly being used not only in sun preparations but also in other skin cosmetics such as day creams. For day creams, where UVA photostability is the key, the modern, latest available UV filters of the Uvinul and Tinosorb range, meet these requirements.

The use of UV filters and micro pigments to protect the skin is subject to legislation in many countries. The following table shows the approval status and the permitted concentration worldwide. The concentration of UV filters in sun preparations depends on the desired degree of protection, measured in terms of the Sun Protection Factor (SPF). Commonly, organic UV filters are combined with micronized UV filters, like Tinosorb M or Z-COTE, in products with a high SPF. They can also be used together with radical scavengers, e.g. Ascorbyl Monophosphate, Vitamin E or Vitamin E-Acetate which provide additional passive sun protection.

## Approval status

All data in %	EU	Switzerland	India	Taiwan	Korea	Japan <sup>2)</sup>	China	Australia	ASEAN	USA	Canada	S.America	Mexico
Uvinul MC 80	10	10	10	10	0.5 – 7.5	20	10	10	10	7.5	8.5	10	10
Uvinul MC 80 N	10	10	10	10	0.5 – 7.5	20	10	10	10	7.5	8.5	10	10
Uvinul T 150	5	5	5	5	0.5 – 5	5	5	5	5	-	-	5	5
Uvinul N 539 T	10	10	10	10	0.5 – 10	10	10	10	10	10	12	10	10
Uvinul MS 40	5	5	10	5	0.5 – 5	10	5	10	4)	10	6	10	5
Uvinul A Plus Granular	10	10	10	10	10	10	10	10	10	-	-	10	10
Uvinul A Plus B	15.38	15.38	15.38	15.38	11.5	28.5	15.38	15.38	15.38	-	-	15.38	15.38
Tinosorb M	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>			10 <sup>5)</sup>	10 <sup>5)</sup>
Tinosorb S	10	10	10	10	10	3	10	10	10			10	10
Tinosorb S Aqua	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	3 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>	10 <sup>5)</sup>			10 <sup>5)</sup>	10 <sup>5)</sup>
Z-COTE	- <sup>1)</sup>	-	25	20	25	No limit	25	25	25	25	25	No limit	25
Z-COTE HP1	- <sup>1)</sup>	-	25	20	(25) <sup>3)</sup>	No limit	25	11	25	25	25	No limit	25

- not approved

1) Germany: preliminary approval 25%

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

3) Cosmetic manufacturer may require additional information on coating when make application for functional cosmetics.

4) ASEAN Cosmetic Directive, Annex VII – part 3. The substance should be allowed for use unless there is a toxicity or unsafety report.

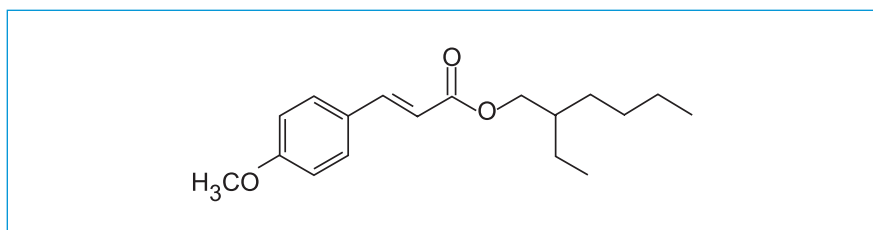
5) As active ingredients

## Specification

See separate document: “Standard Specification” available via BASF’s WorldAccount: <http://worldaccount.basf.com> (registered access).

## Physicochemical properties of BASF UV filters

	Molecular formula	Molecular weight	Appearance
Uvinul MC 80	C <sub>18</sub> H <sub>26</sub> O <sub>3</sub>	290	Colorless to light yellow liquid
Uvinul MC 80 N	C <sub>18</sub> H <sub>26</sub> O <sub>3</sub>	290	Colorless to light yellow liquid
Uvinul T 150	C <sub>48</sub> H <sub>66</sub> N <sub>6</sub> O <sub>6</sub>	823	White to light yellow powder
Uvinul N 539 T	C <sub>24</sub> H <sub>27</sub> NO <sub>2</sub>	361	Clear yellow viscous liquid
Uvinul MS 40	C <sub>14</sub> H <sub>12</sub> O <sub>6</sub> S	308	Off white fine to coarse powder
Uvinul A Plus Granular	C <sub>24</sub> H <sub>31</sub> NO <sub>4</sub>	397	White to slight salmon color granular powder, becoming yellow melt upon heating
Uvinul A Plus B	C <sub>18</sub> H <sub>26</sub> O <sub>3</sub> C <sub>24</sub> H <sub>31</sub> NO <sub>4</sub>	290 397	Yellow solution
Tinosorb M	C <sub>41</sub> H <sub>50</sub> N <sub>6</sub> O <sub>2</sub>	659	White liquid
Tinosorb S	C <sub>38</sub> H <sub>49</sub> N <sub>3</sub> O <sub>5</sub>	628	Light yellow powder
Tinosorb S Aqua	C <sub>38</sub> H <sub>49</sub> N <sub>3</sub> O <sub>5</sub>	628	Light yellow liquid
Z-COTE	ZnO	81	White powder
Z-COTE HP 1	ZnO	81 (for ZnO)	White powder

**Uvinul MC 80****Structural formula****Uvinul MC 80****Chemical name**

p-Methoxycinnamic acid 2-ethylhexylester

**INCI name**

Ethylhexyl Methoxycinnamate

**CAS-No.**

5466-77-3

**Description**

stabilized with 0.07 ± 0.02% BHT

**Uvinul MC 80 N****INCI name**

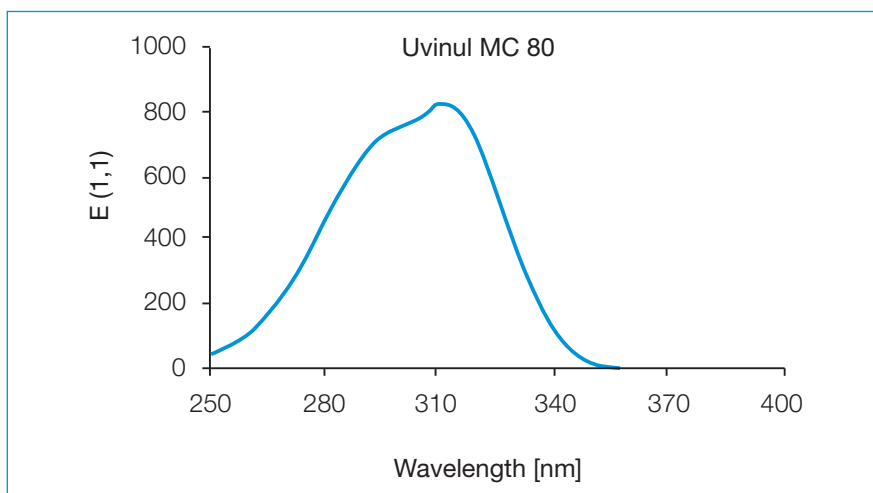
Ethylhexyl Methoxycinnamate

**CAS-No.**

5466-77-3

**Description**

unstabilized

**UV spectrum****Properties and applications**

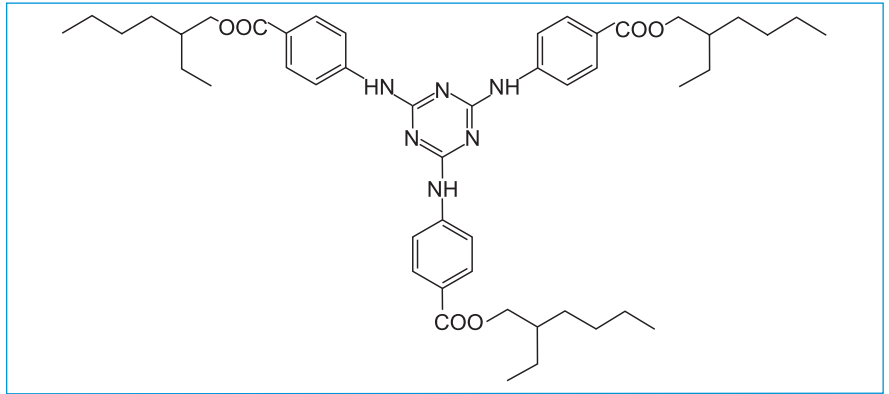
Uvinul MC 80 is approved worldwide and is the most frequently used UVB filter. It can readily be incorporated without problem in all the usual cosmetic raw materials.

Uvinul MC 80 is a good solvent for other ingredients of suncare products, e.g. Uvinul T 150 and Tinosorb S.

**Solubility**

Trade name (supplier)	INCI name	Uvinul MC 80 solubility <sup>(1)</sup> at 25 °C Wt. (%)
Uvinul A Plus (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	39.0
Tinosorb S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	17.0
Uvinul T 150 (BASF)	Ethylhexyl Triazone	14.0

<sup>(1)</sup> Determination of the solubility of Tinosorb S, Uvinul A Plus and Uvinul T 150

**Uvinul T 150****Structural formula****Chemical name**

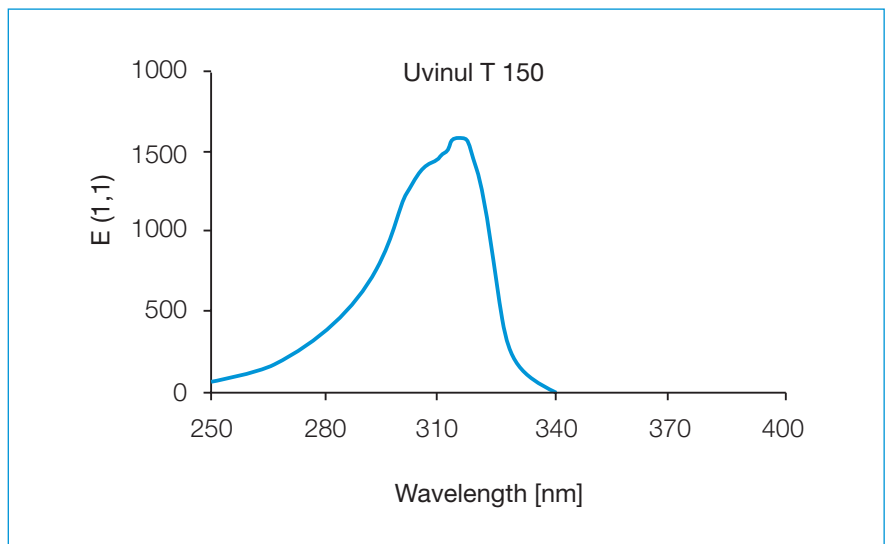
2,4,6-Trianiino-p-(carbo-2'-ethylhexyl-1'-oxy)-1,3,5-triazin

**INCI name**

Ethylhexyl Triazone

**CAS-No.**

88122-99-0

**UV spectrum****Properties and applications**

Uvinul T 150 is the most effective UVB filter with an exceptionally high absorptivity of over 1,500 at 314 nm. Because of its high E<sub>1/1</sub> value, only small concentrations are required in cosmetic sun-care preparations, to achieve a high SPF value. Concentrations up to 3% are recommended.

The polar nature of Uvinul T 150 gives it good affinity to the keratin in the skin, so that formulations in which it is used are particularly waterresistant. This property is further enhanced by its complete insolubility in water.

Uvinul T 150 is also very stable towards light. It remains practically unchanged, even when it is exposed to intense radiation.

Uvinul T 150 is usually dissolved in the oily phase of emulsions by heating.

**Solubility**

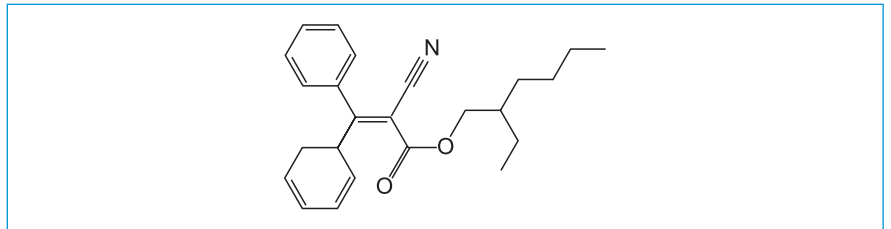
<b>Trade name (supplier)</b>	<b>INCI name</b>	<b>Uvinul T 150 solubility<sup>(1)</sup> at 25 °C Wt. (%)</b>
Cetiol® B (BASF)	Dibutyl Adipate	16.0
Uvinul MC 80 (BASF)	Ethylhexyl Methoxycinnamate	14.0
Myritol® 331 (BASF)	Cocoglycerides	9.4
Cetiol RLF (BASF)	Caprylyl-Caprylate/Caprates	6.7
Myritol 318 (BASF)	Caprylic/Capric Triglyceride	6.2
Cetiol C5 (BASF)	Coco Caprylate	6.1
Cetiol CC (BASF)	Dicaprylyl Carbonate	5.9
Cetiol Sensoft (BASF)	Propylheptyl Caprylate	5.7
Cetiol AB (BASF)	C12-15 Alkyl Benzoate	4.4
Uvinul N 539 T (BASF)	Octocrylene <sup>(2)</sup>	4.2
Isopropylpalmitate (BASF)	Isopropylpalmitate	3.4
Ethanol (99.8%)	Alcohol	1.3 (21 °C)

<sup>(1)</sup> Determination of the solubility of Uvinul T 150

<sup>(2)</sup> Beware of patent restrictions

## Uvinul N 539 T

### Structural formula

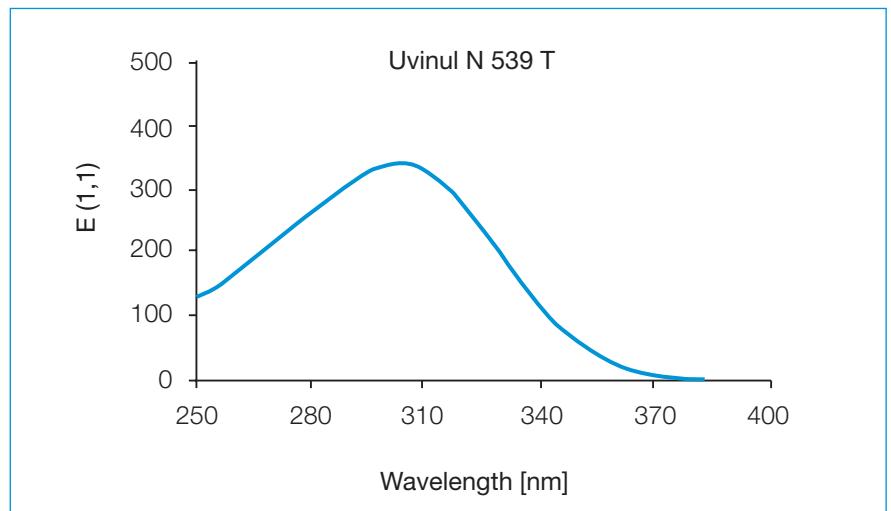


**Chemical name** 2-Cyano-3,3-diphenylacrylic acid 2'-ethylhexyl ester

**INCI name** Octocrylene

**CAS-No.** 6197-30-4

### UV spectrum



### Properties and applications

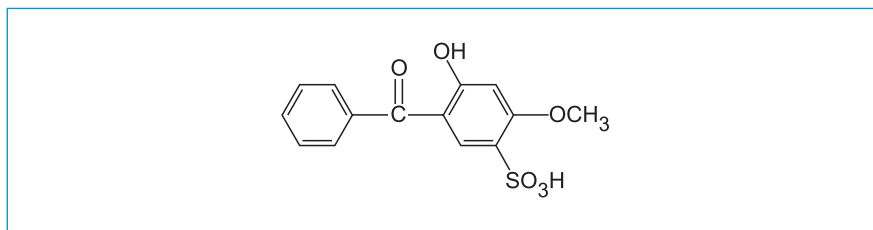
Uvinul N 539 T is an oil-miscible UVB filter that is approved worldwide for the use in sun care preparations. It is particularly recommended to combine Uvinul N 539 T with other oil-soluble UV filters such as Uvinul T 150 or Uvinul MC 80 to obtain high SPF values. A further feature of Uvinul N 539 T is its excellent photostability, and its ability to stabilize photoinstable UV filters like Butyl Methoxydibenzoylmethane.

### Solubility

Trade name (supplier)	INCI name	Uvinul N 539 T solubility <sup>(1)</sup> at 25 °C Wt. (%)
Uvinul A Plus Granular (BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	39.0
Tinosorb S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	7.3
Uvinul T 150 (BASF)	Ethylhexyl Triazone	4.2

<sup>(1)</sup> Determination of the solubility of Tinosorb S, Uvinul A Plus Granular and Uvinul T 150



**Uvinul MS 40****Structural formula****Chemical name**

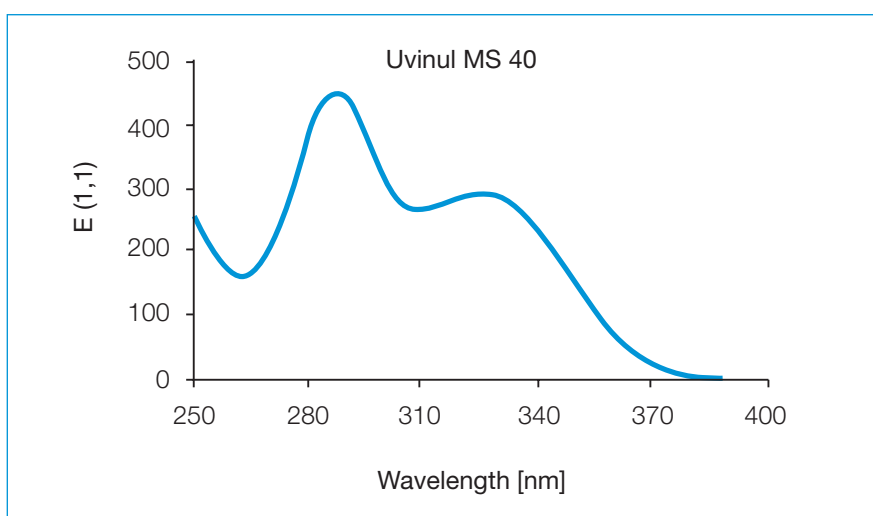
2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid

**INCI name**

Benzophenone-4

**CAS-No.**

4065-45-6

**UV spectrum****Properties and applications**

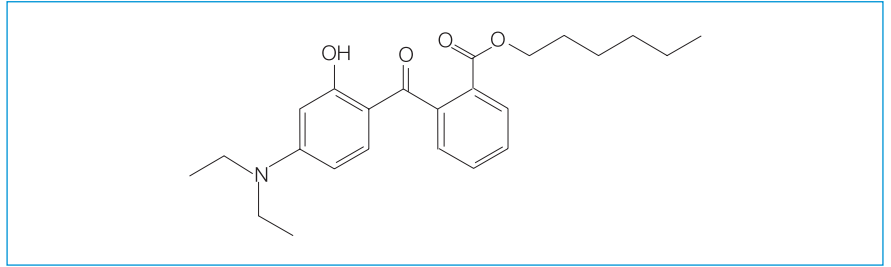
The sulfonic acid group makes Uvinul MS 40 soluble in water. The acid group must be neutralized with one of the usual neutralizing agents, e.g. triethanolamine, NaOH etc. The neutralizing agent has no effect on the absorption characteristics. However, if the product is over neutralized (pH 9), the absorption curve shifts towards shorter wavelengths.

The quantities of neutralizing agent required to completely neutralize 1 g of Uvinul MS 40 are as follows:

Sodium Hydroxide	approx. 0.13 g
Triethanolamin	approx. 0.53 g
Tromethamine	approx. 0.41 g
Tetrahydroxypropyl Ethylenediamine	approx. 1.00 g

The pH value of the resultant solutions lies between 7.00 and 7.50.

A combination of an oil-soluble UV filter e.g. Uvinul MC 80 and a water soluble UV filter e.g. Uvinul MS 40 is recommended for aiming higher sun protection factors.

**Uvinul A Plus Granular****Structural formula****Chemical name**

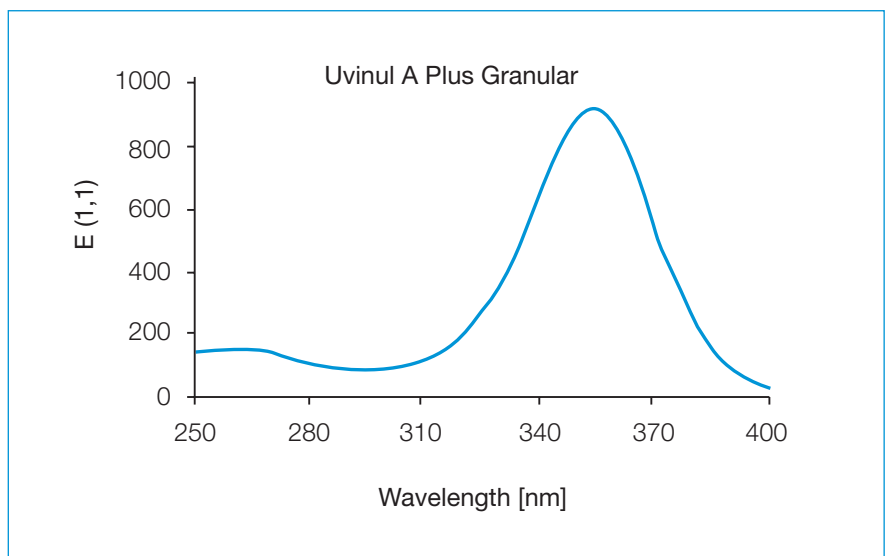
2-(4-(Diethylamino)-2-hydroxybenzoyl)- benzoic acid hexylester

**INCI name**

Diethylamino Hydroxybenzoyl Hexyl Benzoate

**CAS-No.**

302776-68-7

**UV spectrum****Properties and applications**

Uvinul A Plus Granular is the only photostable organic UVA-I absorber that covers the long wavelengths of the UVA spectrum. The product has a good solubility in cosmetic oils and also a unique solubility in ethanol. It is compatible with inorganic UV filters like Titanium Dioxide or Zinc Oxide. The outstanding photostability of Uvinul A Plus Granular provides reliable and efficient sun protection for the whole day.

**Solubility**

<b>Trade name (supplier)</b>	<b>INCI name</b>	<b>Uvinul A Plus Granular solubility<sup>(1)</sup> at 25 °C Wt. (%)</b>
Uvinul MC 80 (BASF)	Ethylhexyl Methoxycinnamate	39.0
Uvinul N 539 T (BASF)	Octocrylene	39.0
Eusolex HMS (Merck)	Homosalate	36.0
Neoheliopan Type OS (Symrise)	Ethylhexyl Salicylate	30.0
Cetiol B (BASF)	Dibutyl Adipate	31.0
Cetiol AB (BASF)	C12-15 Alkyl Benzoate	23.0
Cetiol CC (BASF)	Dicaprylyl Carbonate	18.0
Myritol 318 (BASF)	Caprylic/Capric Triglyceride	17.0
Myritol 331 (BASF)	Cocoglycerides	14.0
Cetiol C5 (BASF)	Coco Caprylate	13.0
Cetiol RLF (BASF)	Caprylyl-Caprylate/Caprates	13.0
Cetiol Sensoft (BASF)	Propylheptyl Caprylate	12.0
Ethanol (99.8%)	Alcohol	11.0 (21 °C)
Isopropylpalmitate (BASF)	Isopropylpalmitate	9.1

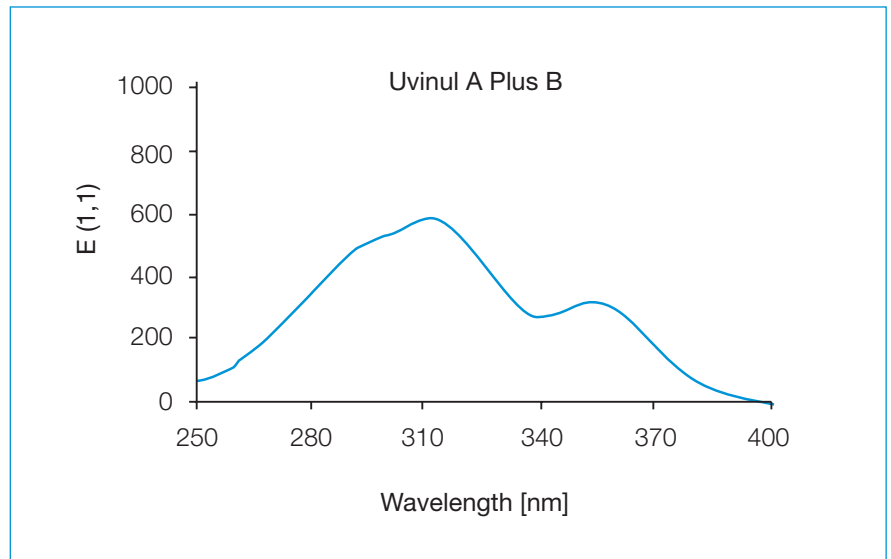
<sup>(1)</sup> Determination of the solubility of Uvinul A Plus Granular

**Uvinul A Plus B**

**INCI name** Ethyl Hexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate

**CAS-No.** 5466-77-3  
302776-68-7

**Description** Uvinul A Plus 35%  
Uvinul MC 80 65%

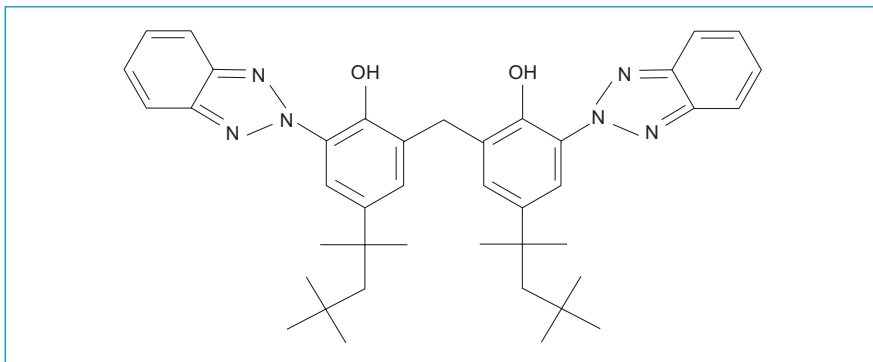
**UV spectrum****Properties and applications**

Uvinul A Plus B is a ready to use solution consisting of Uvinul A Plus dissolved in Uvinul MC 80. The solution has a viscosity of 1600 mPa·s at room temperature.

Uvinul A Plus B is suitable for cold process manufacturing.

## Tinosorb M

### Structural formula



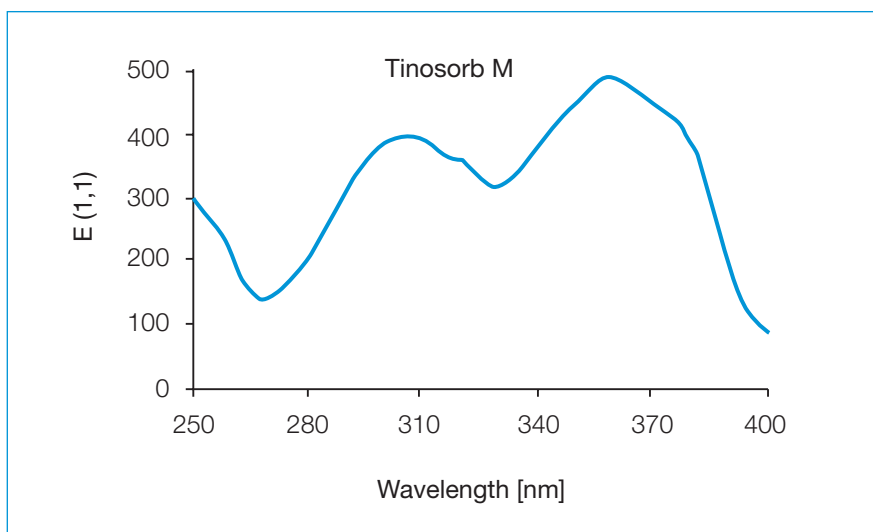
### INCI name

Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum

### CAS-Nos.

103597-45-1  
7732-18-5  
68515-73-1  
57-55-6  
11138-66-2

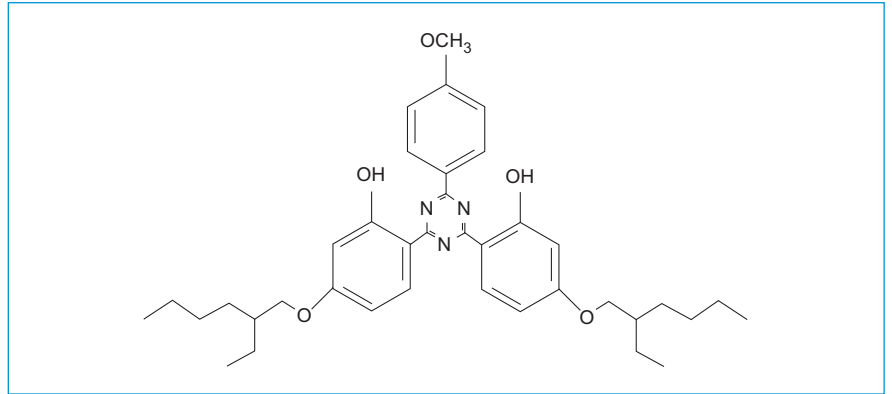
### UV spectrum



### Properties and applications

Tinosorb M is the only organic filter available on the market in particular form. It is a broad-spectrum UV-absorber. The microfine dispersion is compatible with most cosmetic ingredients. As a photostable UV-absorber Tinosorb M increases the photostability of other UV-absorbers. It can be used in all formulations where UVA protection is necessary. Due to the strong absorbance in the UVA-I Tinosorb M shows strong contribution to the UVA-PF and therefore efficiently helps to fulfill the EC recommendation for UVA protection.

The Tinosorb M dispersion can be post-added to emulsions and is therefore suitable for cold process formulations.

**Tinosorb S****Structural formula****Chemical name**

2,4-Bis-[[4-(2-ethyl-hexyloxy)-2-hydroxy]-phenyl]-6-(4-methoxyphenyl)-(1,3,5)-triazine

**INCI name**

Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine

**CAS-No.**

187393-00-6

**Tinosorb S Aqua****Chemical name**

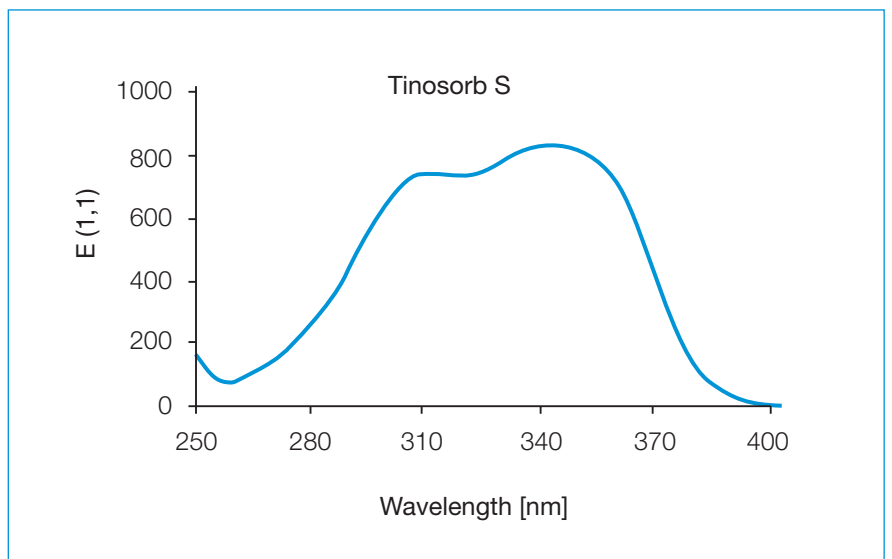
2,4-Bis-[[4-(2-ethyl-hexyloxy)-2-hydroxy]-phenyl]-6-(4-methoxyphenyl)-(1,3,5)-triazine (and) Polymethylmethacrylate (and) Sodium Laurylth sulfate (and) Aminomethyl Propanol

**INCI name**

Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Polymethyl Methacrylate

**CAS-Nos.**

187393-00-6  
9011-14-7  
1335-72-4  
124-68-5

**UV spectrum**

## Properties and applications

Tinosorb S is the most high efficient oil soluble broad-spectrum UV filter. By the incorporation of low concentrations of Tinosorb S a high contribution of SPF and UVA-PF is achieved. Tinosorb S is an efficient performance booster with excellent photostability. Tinosorb S is an outstanding stabilizer for instable UV filters.

## Solubility

Trade name (supplier)	INCI name	Tinosorb S solubility <sup>(1)</sup> at 25 °C Wt. (%)
Neoheliopan Type OS (Symrise)	Ethylhexyl Salicylate	20.0
Uvinul MC 80 (BASF)	Ethylhexyl Methoxycinnamate	17.0
Eusolex HMS (Merck)	Homosalate	16.0
Cetiol AB (BASF)	C12-15 Alkyl Benzoate	12.0
Cetiol B (BASF)	Dibutyl Adipate	10.0
Cetiol CC (BASF)	Dicaprylyl Carbonate	8.8
Cetiol RLF (BASF)	Caprylyl-Caprylate/Caprates	7.9
Cetiol C5 (BASF)	Coco Caprylate	7.3
Uvinul N 539 T (BASF)	Octocrylene	7.3
Cetiol Sensoft (BASF)	Propylheptyl Caprylate	6.3
Isopropylpalmitate (BASF)	Isopropylpalmitate	5.0
Myritol 318 (BASF)	Caprylic/Capric Triglyceride	5.0
Myritol 331 (BASF)	Cocoglycerides	5.0
Ethanol (99.8%)	Alcohol	<0.5

<sup>(1)</sup> Determination of the solubility of Tinosorb S

With Tinosorb S Aqua the high efficient Tinosorb S technology is now also available for the incorporation in the water phase of the formulation.

Tinosorb S Aqua is easy to handle, because no solubilization is necessary and therefore it can be used for cold process formulations.

**Z-COTE**

Z-COTE is an inorganic micronized pigment dry powder. The product line comes in two grades:

**Z-COTE****INCI name**

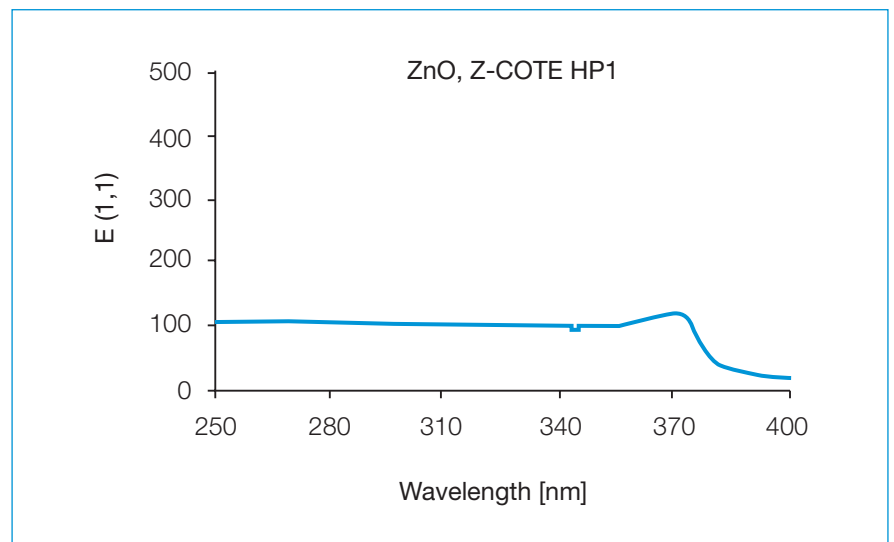
Zinc Oxide

**CAS-No.**

1314-13-2

**Z-COTE HP1****INCI name**

Zinc oxide (and) Triethoxycaprylylsilane

**CAS-No.**1314-13-2  
2943-75-1**UV spectrum****Properties and applications**

Zinc oxide is known since long for its beneficial properties as skin protectant and its antimicrobial activity. As micronized filter it's broad-spectrum light attenuation covers almost uniformly nearly the whole UV-Spectrum: from the short UVB up to the long UVA-I (380 nm). It is particularly recommended for the protection of sensitive skin, e.g. children.

Z-COTE is an uncoated micronized zinc oxide and has an amphiphilic character. It can be incorporated into the water phase or into the oil phase of a formulation.

Z-COTE HP1 consists of approx. 98% micronized zinc oxide and 2% of a hydrophobic coating. It should be incorporated into the oil phase of a formulation.

Both Z-COTE grades show synergistic effects with organic UV filters, especially with Uvinul T 150, and can be used to enhance the UVA and SPF performance of a sunscreen product.

The product quality of the Z-COTE grades is in agreement with current USP requirements.



**Stability**

The minimum storage times for the different BASF filters in the original sealed containers are as follow:

1 year	2 years	3 years	5 years
Uvinul MC 80 N	Uvinul A Plus Granular	Z-COTE	Tinosorb S
Tinosorb S Aqua	Tinosorb M	Z-COTE HP 1	
		Uvinul A Plus B	
		Uvinul MC 80	
		Uvinul MS 40	
		Uvinul T 150	
		Uvinul N 539 T	

**Toxicology**

The BASF range of UV filters has been toxicologically assessed for their suitability in cosmetic preparations. On the basis of information at our disposal and provided that the recommended concentrations and field of application are adhered to, there is no evidence of any toxicological risk associated with their use.

**Safety Data Sheets**

Safety Data Sheets are available on request.

**Note**

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