

Technical Information

Tinosorb® S

PRD 30481068

Valid since 02.08.2018
Revision 1.0
WF-No. 15794
Page 1 of 6

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

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

Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine

Chemical description

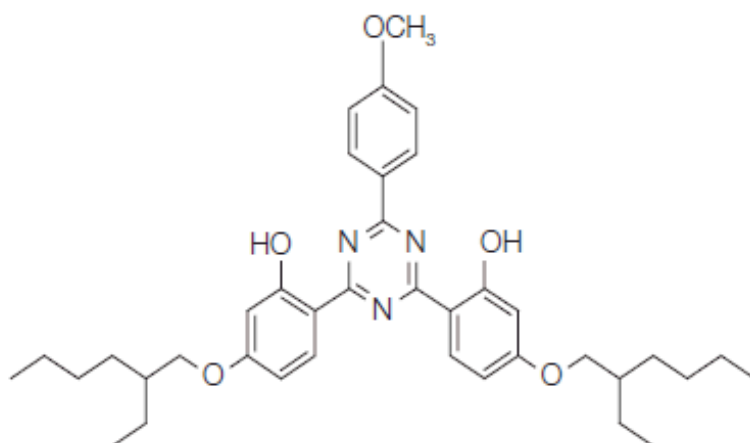
2,4-bis-[[4-(2-ethyl-hexyloxy)-2-hydroxy]-phenyl]-6-(4-methoxyphenyl)-(1,3,5)-triazine

Physical form:

Light yellow powder

Molecular weight

628 g/mol

Molecular FormulaC₃₈H₄₉N₃O₅**Structural Formula**

CASR-No.
187393-00-6

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

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Care Chemicals**Application**

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

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	Fine to coarse, light yellow powder	WI 2.601
Odor	Trace characteristic	
Tests		
Absorption (UV-VIS Spectroscopy, 2-Propanol, 341 nm)	min. 0.790	WI 2.606
Specific Absorption (2-Propanol, 341 nm)	min. 790	WI 2.606
Total Viable Count	max. 100 CFU/g	WI 2.612
Absence of specific microorganisms	Conform	WI 2.612
- Gram-Negative Bacteria		
- Staphylococcus Aureus		
- Candida		
Assay		
Content (HPLC)	min. 98%	WI 2.603
Sum of Organic By-Products (HPLC)	max. 2%	WI 2.604



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Care Chemicals

Notes:

Manufacturer: BASF Taiwan Limited, No 6, Kwang-Hwa Road, Ta-Fa Industrial District, Kaohsiung City 83162, Taiwan,

Responsible for release: Brian Liu, Quality Management, Kaohsiung

Tinosorb® S is manufactured according to current GMP requirements.

Storage information

Shelf life

60 months

Storage temperature

Store below + 60 °C.

Storage conditions

In original sealed containers and protected from moisture

Additional information

Store in a well-ventilated place.

Stabilising additives / Auxiliaries

Preservatives

not present

Antioxidants

not present

Solvents

not present

Others

not present

General information

Raw material basis

Synthetic: (natural oil / gas)

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

INCI Name (US/EU/CN)	Content
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (EU,CN)	
Bemotrizinol (US)	100 %

Product properties**Solubility**

Trade name	INCI name	Tinosorb® S solubility¹ at 25 °C Wt. (%)
Uvinul® MC 80	Ethylhexyl Methoxycinnamate	17.0
Cetiol AB	C12-15 Alkyl Benzoate	12.0
Cetiol B	Dibutyl Adipate	10.0
Cetiol CC	Dicaprylyl Carbonate	8.8
Cetiol RLF	Caprylyl-Caprylate/Caprates	7.9
Cetiol C5	Coco Caprylate	7.3
Uvinul® N 539 T	Octocrylene	7.3
Cetiol Sensoft	Propylheptyl Caprylate	6.3
Isopropylpalmitate	Isopropylpalmitate	5.0
Myritol 318	Caprylic/Capric Triglyceride	5.0
Myritol 331	Cocoglycerides	5.0
Ethanol (99.8%)	Alcohol	< 0.5

Notes:⁽¹⁾ Determination of the solubility of Tinosorb® S

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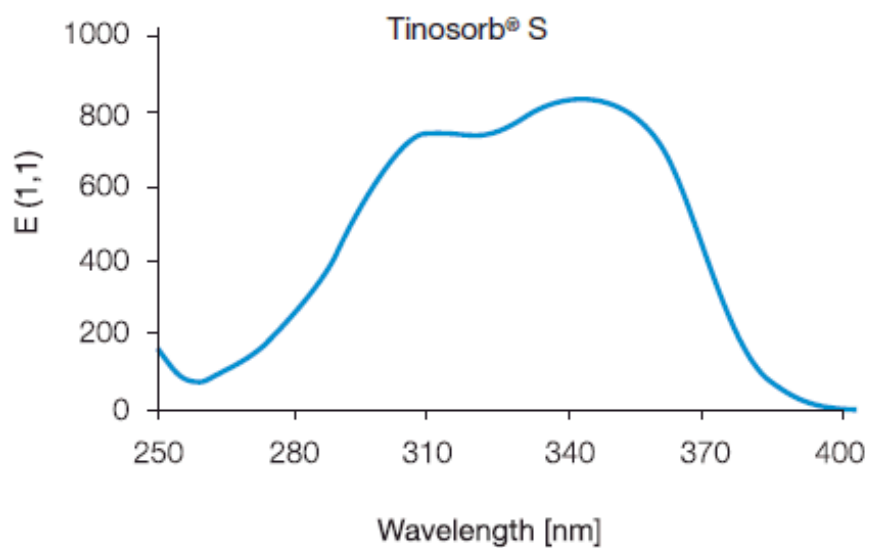
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Care Chemicals**Specific technical data**

UV spectrum





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Approval status

Region	Amount in %
EU	10
Switzerland	10
India	10
Taiwan	10
Korea	10
Japan (*)	3
China	10
Australia	10
ASEAN	10
USA	-
Canada	-
S. America	10
Mexico	10

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

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