

Technical Information

Tinosorb® S Lite Aqua

PRD 30671796

Valid since 26.03.2020
Revision 4.2

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

Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Acrylates/C12-22 Alkyl Methacrylate Copolymer

Chemical description

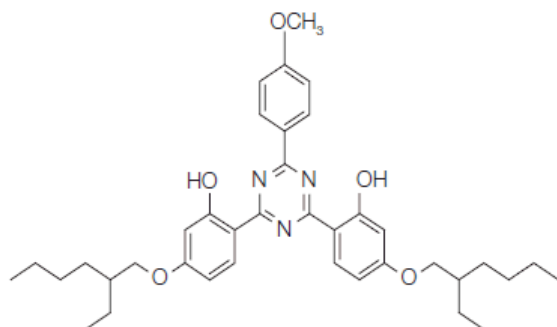
Aqueous dispersion of 2,4-Bis-[[2-ethyl-hexyloxy]-2-hydroxy]-phenyl]-6-(4-methoxyphenyl)-(1,3,5)-triazine, Acrylates/C 12-22 Alkyl Methacrylate Copolymer, Coco-Glucoside, Disodium Lauryl Sulfosuccinate, L-L-Arginin

Physical form:

Light yellow liquid

Molecular weight

628 g/mol

Molecular FormulaC₃₈H₄₉N₃O₅**Structural Formula****CASR-No.**

187393-00-6

Ingredient

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

1987853-62-2

Acrylates/C 12-22 Alkyl Methacrylate Copolymer

110615-47-9

Coco-Glucoside

68515-73-1

Coco-Glucoside

90268-36-3

Disodium Lauryl Sulfosuccinate

74-79-3

L-Arginin

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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
Appearance at room temperature	Corresponds to the standard	
Odor at room temperature	Corresponds to the standard	
Tests		
pH value	8.0 - 11.0	EN 1262
Viscosity	max. 200 mPas	ISO 2555
Dry content	40.0 - 50.0 %	ISO 3251
Absorbance	144 - 176	Internal method 9161
Assay		
Content (photometric)	18.0 - 22.0 %	Internal method 9210

Storage information**Retest period**

24 months

Storage temperature

Between + 5 °C and + 40 °C

Storage conditions

In original sealed containers and protected from moisture

Additional information

The packed product is destroyed at low temperature or by frost.
To be mixed before using.

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Care Chemicals**Stabilising additives / Auxiliaries****Preservatives**

not present

Antioxidants

not present

Solvents

not present

Others

Coco-Glucoside, Disodium Lauryl Sulfosuccinate, L-Arginin

General information**Raw material basis**

Synthetic: (mineral oil / natural gas)

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

INCI Name (US/EU/CN)	Content
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (EU, CN)	
Bemotrizinol (US)	18.0 - 22.0 %
Acrylates/C12-22 Alkyl Methacrylate Copolymer	17.0 - 21.0 %

Auxiliaries

INCI Name (US/EU/CN)	Content
Arginine	2.5 - 3.5 %
Coco-Glucoside	1.5 - 2.5 %
Disodium Lauryl Sulfosuccinate	0.3 - 0.8 %

Water Content**Content**
50.2 - 60.7 %

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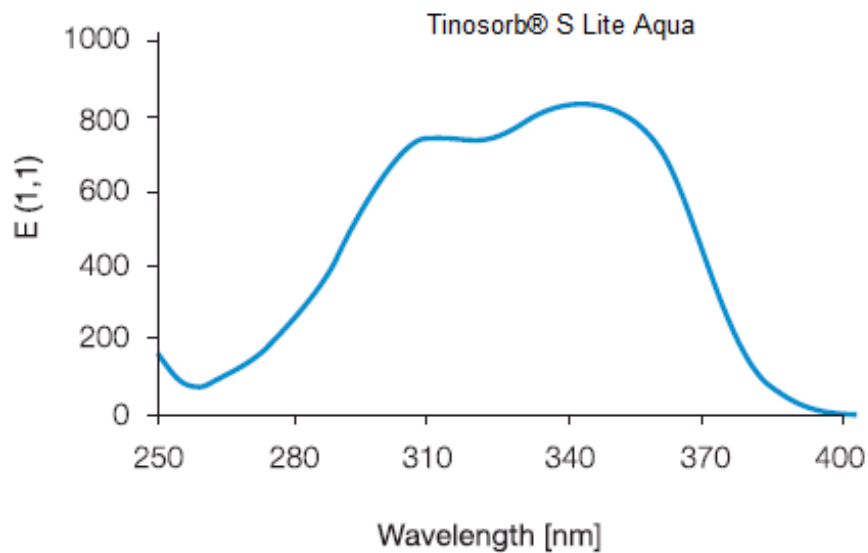
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Care Chemicals**Product properties****Solubility**

No solubilization of Tinosorb S Lite Aqua in the formulation is required since Tinosorb S Lite Aqua is a liquid water dispersion and is incorporated after emulsification at room temperature.

Specific technical data

UV spectrum



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Care Chemicals**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	6 (**)
S. America	10 (**)
Mexico	10 (**)

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

(**) Amount as active ingredients

Miscellaneous information**Example of use**

Tinosorb® S Lite Aqua is the water dispersed form of the broad-spectrum UV filter Tinosorb® S. With this patented encapsulation technology, the UV performance of the highly efficient Tinosorb® S is now available for the water phase of sunscreen formulations.

Beyond its high UV performance and extreme photostability, Tinosorb® S Lite Aqua offers several other benefits. It boosts the overall sun protection due a partition of the UV filters in the water and oil phase and the formation of an homogeneous film on the skin; the use of small amount highly contributes to both the SPF and UVA-PF. Water resistance is not impacted negatively using Tinosorb® S Aqua.

From a formulation point of view, the incorporation of Tinosorb® S Lite Aqua in the water phase of a sunscreen prevents the overload of the oil phase and increases formulation flexibility. Tinosorb® S Lite Aqua is ideal for all types of sunscreen products containing a water phase including low viscous systems. It allows easy handling since no solubilization is required, it is cold-processable and pumpable.



We create chemistry

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