

Technical Information

Uvinul® A Plus Granular

PRD 30338477

Valid since 03.07.2018
Revision 1.0

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

Diethylamino Hydroxybenzoyl Hexyl Benzoate

Chemical description

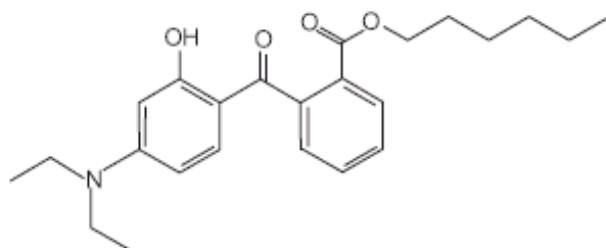
2-(4-(Diethylamino)-2-hydroxybenzoyl)- benzoic acid hexylester

Physical form:

White to slight salmon color granular powder, becoming yellow melt upon heating

Molecular weight

397 g/mol

Molecular FormulaC₂₄H₃₁NO₄**Structural Formula****CASR-No.**

302776-68-7

Ingredient

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

Application

Uvinul® A Plus Granular is the only photostable organic UVA-I absorber that covers the long wavelengths of the UVA spectrum. Its outstanding photostability and high UVA absorbance makes from Uvinul® A Plus the UV filter of choice for a reliable and efficient sun protection during the whole day. Moreover, efficient and photostable UVA protection provided by Uvinul® A Plus results in no generation of free radicals. It is compatible with all organic UV filters as well as inorganic UV filters. The product is well soluble in a wide range of cosmetic oils and also shows a unique solubility in ethanol.

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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
Characters		
Appearance	Must comply	Visual (white to light salmon color granular powder, becoming yellow melt upon heating)
Odor	Must comply (weakly characteristic)	Comparison against reference standard
Identification		
Identity UV Spectrum in Ethanol	352 - 356 nm	PM/00761
Specific Extinction in Ethanol (E1/1) 354 nm	910 - 940	PM/00761
Tests		
Color of melt (Gardner)	max. 8.2	ASTM 1544
Bulk density	0.58 - 0.70 g/ml	DIN EN ISO 60
Assay		
Purity (GC)	min. 98.0 % area	PM/00628

Storage information**Shelf life**

24 months

Storage conditions

In original sealed containers and protected from moisture

Additional information

Protect from temperatures above 50 °C

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

not present

Antioxidants

not present

Solvents

not present

Others

not present

General information**Raw material basis**

Synthetic: (mineral oil / natural gas)

Composition hints for finished product label**INCI Components****INCI Name (US/EU/CN)**

Diethylamino Hydroxybenzoyl Hexyl Benzoate

Content

Complete *

* Complete means conclusively describes the substance

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

Trade name	INCI name	Uvinul® A Plus Granular solubility¹ at 25 °C Wt. (%)
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

Notes:

(1) Determination of the solubility of Uvinul® A Plus Granular

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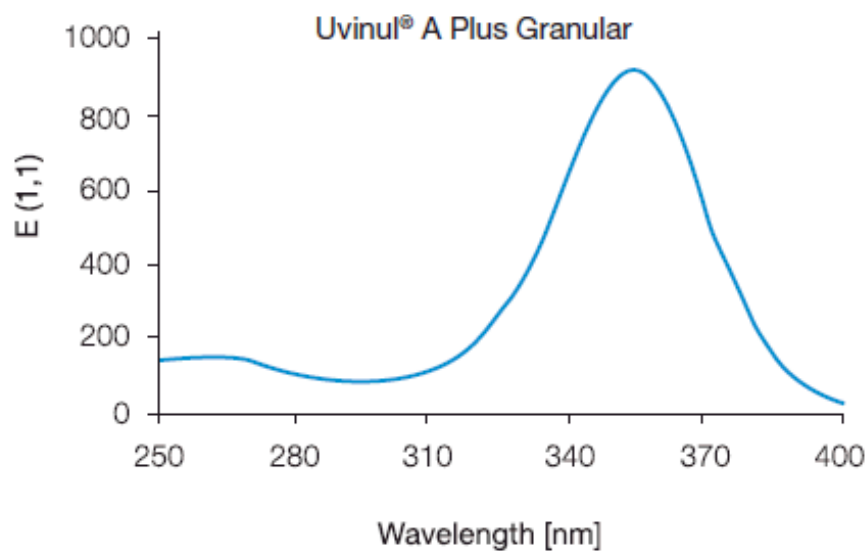
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Care Chemicals**Specific technical data**

UV spectrum



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Care Chemicals**Approval status**

Region	Amount in %
EU	10
Switzerland	10
India	10
Taiwan	10
Korea	10
Japan (*)	10
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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