

Technical Data Sheet

MFSORB 509

Product Code: Mfsorb® 509

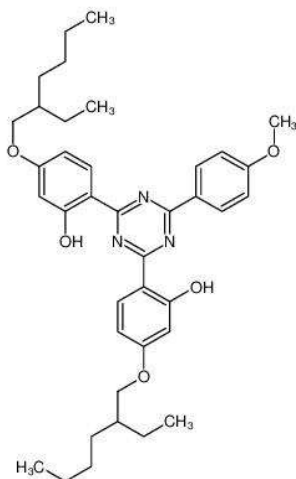
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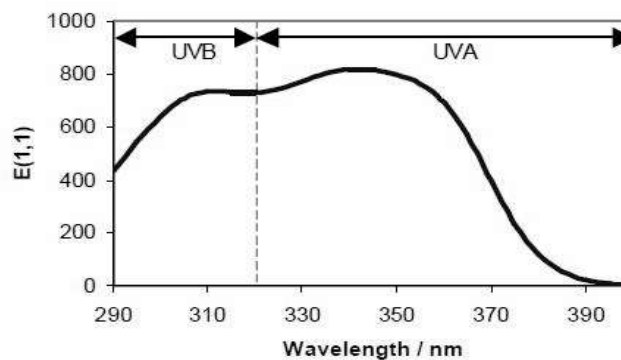
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Organic UV Filter

Production Site:	MFCI (Huanggang) Co., Ltd.
INCI Name:	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine
Chemical Name:	2,4-Bis[4-(2-ethylhexyloxy)-2-hydroxyphenyl]-6-(4-methoxyphenyl)-1,3,5-triazine
Other names:	Bemotrizinol; UV-627; BEMT
Molecular Formula:	C ₃₈ H ₄₉ N ₃ O ₅
Molecular Weight:	627.80
CAS No.:	187393-00-6
EINECS No.:	425-950-7
Structural Formula:	



UV Characteristics



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Application

Bemotrizinol is a highly effective UV filter due to its broad-spectrum absorption. It is very photo-stable and compatible with other UV filters and also has ability to stabilize other UV filters. It can be incorporated in sunscreens, but also in day care products as well as skin lightening products.

Specifications

Quality control data

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

Test property	Specification	Remark
Characters		
Appearance:	Light yellow to yellow powder	
Odor:	Characteristic	
Identification		
Identification (IR):	A. Infrared Absorption <197K>	
Tests		
Absorbance: (UV-VIS, 10mg/L, in ethanol, 340 nm, 1cm)	Min. 0.790	
Specific Extinction: (E1%, 1cm at 340nm)	Min. 790	
Volatile matter:	Max. 0.50%	
Assay		
Assay (HPLC):	Min. 98.0%	
Impurities		
Total Impurities (HPLC):	Max. 2.0%	

Other quality data

(Data which is obtained through the evaluation and is not certified for each batch, for reference only.)

Test property	Specification
Microbiology	
Total Aerobic Micro Count (TAMC):	Max. 100 cfu/g
Total Yeast and Mold Count (TYMC):	Max. 100 cfu/g
Pathogens	
Escherichia coli:	Negative in 1 g
Salmonella:	Negative in 1 g
Candida albicans:	Negative in 1 g
Staphylococcus aureus:	Negative in 1 g
Pseudomonas aeruginosa:	Negative in 1 g

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Test property **Specification****Heavy Metals**

Nickel (Ni):	Max. 1 ppm
Mercury (Hg):	Max. 1 ppm
Antimony (Sb):	Max. 1 ppm
Lead (Pb):	Max. 5 ppm
Arsenic (As):	Max. 2 ppm
Cadmium (Cd):	Max. 1 ppm
Cobalt (Co):	Max. 1 ppm
Chrome (Cr):	Max. 1 ppm
Total:	Max. 10ppm

Residual solvents

Meets the requirements of ICH/USP.

Storage information**Packaging Information**

25kgs/drum.

Shelf life

24 months, in original, unopened containers.

Storage conditions

Preserve in well-closed containers. Store at room temperature.

Additional information

None.

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