

## Technical Data Sheet

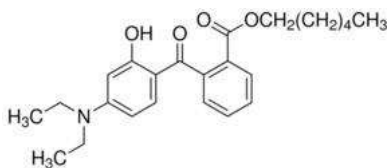
# MFSORB 512

Product Code: Mfsorb® 512

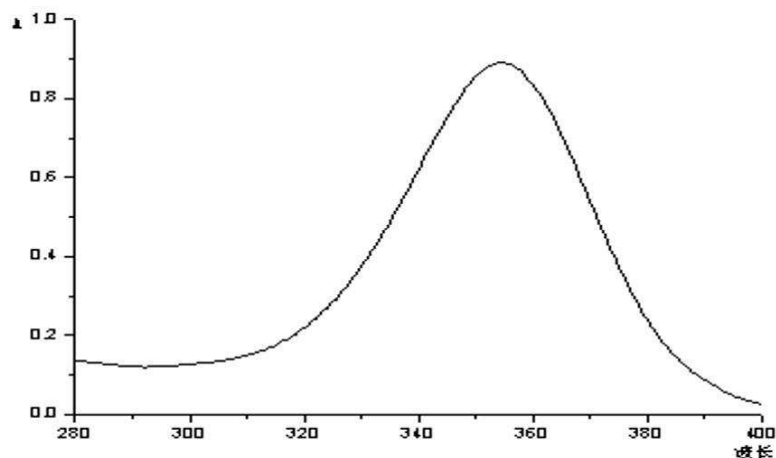
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## Organic UV Filter

<b>Production Site:</b>	MFCI (Huanggang) Co., Ltd.
<b>INCI Name:</b>	Diethylamino Hydroxybenzoyl Hexyl Benzoate
<b>Chemical Name:</b>	2-[4-(Diethylamino)-2-hydroxybenzoyl] benzoic acid hexyl ester
<b>Other names:</b>	DHHB
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>31</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	397.51
<b>CAS No.:</b>	302776-68-7
<b>EINECS No.:</b>	443-860-6
<b>Structural Formula:</b>	



## UV Characteristics



## Application

DHHB is a highly effective UVA filter with strong protective effect for free radical produced by UV. It is very photo-stable and compatible with other UV filters. It can be incorporated in sunscreens, also in day care products as well as skin lightening products.

## Specifications

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### Quality control data

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

Test property	Specification	Remark
<b>Characters</b>		
Appearance:	White to light salmon color granular powder	
Odour:	Weakly characteristic odour	
<b>Identification</b>		
Identification (UV):	352nm~356nm	
<b>Tests</b>		
Gardner Colour:	Max. 8.2	
(in a molten manner)		
Specific Absorption(E1/1):	910~940	
(354nm in ethanol)		
<b>Assay</b>		
Purity (GC):	Min. 98.0%	
<b>Residual solvents:</b>	Conform	

### Other quality data

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

Test property	Specification
<b>Microbiology</b>	
Total Aerobic Micro Count (TAMC):	Max. 100 cfu/g
Total Yeast and Mold Count (TYMC):	Max. 100 cfu/g
<b>Pathogens</b>	
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
<b>Heavy Metals</b>	
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

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### 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.

## Disclaimer

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