

Technical Data Sheet

Ensulizole

Product Code: Mfsorb® 510

Date of Issue: Dec. 15, 2020

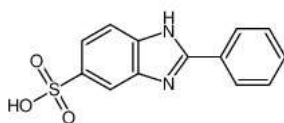
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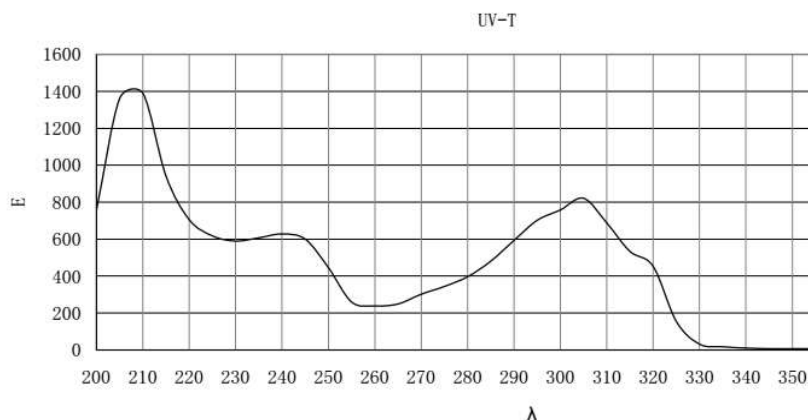
Organic UV Filter

Production Site:	MFCI (Huanggang) Co., Ltd.
INCI Name:	Phenylbenzimidazole Sulfonic Acid
Chemical Name:	2-Phenylbenzimidazole-5-sulfonic acid
Other names:	Ensulizole; PBSA; UV-T
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₃ S
Molecular Weight:	274.30
CAS No.:	27503-81-7
EINECS No.:	248-502-0

Structural Formula:



UV Characteristics



Application

PBSA is insoluble in water. After conversion to a salt, the product is soluble in water and mixtures of water and ethanol. It can be used in sun-care and cosmetic preparations when converted into a salt. There is synergistic effect when PBSA is combined with other filters, such as BMDBM, BEMT, etc.

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Specifications

Quality control data

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

Test property	Specification	Remark
Characters		
Appearance:	White crystalline powder.	
Odour:	Characteristic, conforms to standard	
Identification		
Identification (IR):	A. Infrared Absorption 197K	USP
Identification (UV):	B. Ultraviolet Absorption 197U	USP
Tests		
Specific Absorption: (1%, 1cm at 302nm)	920~990	
Loss on Drying:	Max. 2.0%	USP
Assay		
Assay (Titration):	98.0%~102.0%	USP

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
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

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Test property

Specification

Residual solvents

Meets the requirements of ICH/USP.

Remark

This product manufactured by our company meets the requirements of current USP monograph.

Storage information

Packaging Information

20kgs/carton.

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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