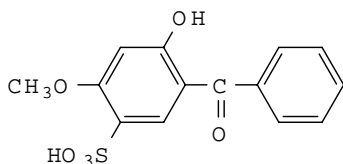


Uvasorb[®] S5

Ultraviolet light absorber



Chemical and physical characteristics (*)

Chemical Name	2-Hydroxy-4-methoxybenzophenone-5-sulphonic acid
INCI Name:	Benzophenone-4
OTC Drug Name:	Sulisobenzone
Empirical formula	C ₁₄ H ₁₂ O ₆ S
Molecular weight	308.3
Appearance	Pale yellow powder
Specific extinction (in water)	
at 285 nm	460 min.
at 325 nm	285 min.
Solubility (at 25°C)	
Water	soluble
Methanol	soluble
Ethanol	soluble

(*) Typical values not qualified for quality control purpose

Applications

UVASORB[®] S5 is a safe and effective water-soluble sunscreen with a broad-spectrum absorbance between 270 and 350 nm.

Because of its excellent water solubility, UVASORB S5 is particularly suitable for O/W suncreams and sun gels.

UVASORB S5 can also be used as a light stabilizer for water based products such as styling gels, shampoos, shower-gels and alcoholic fragrances. It is frequently used in combination with oil-soluble UV-filters in order to boost sunscreensing properties especially in O/W emulsions.

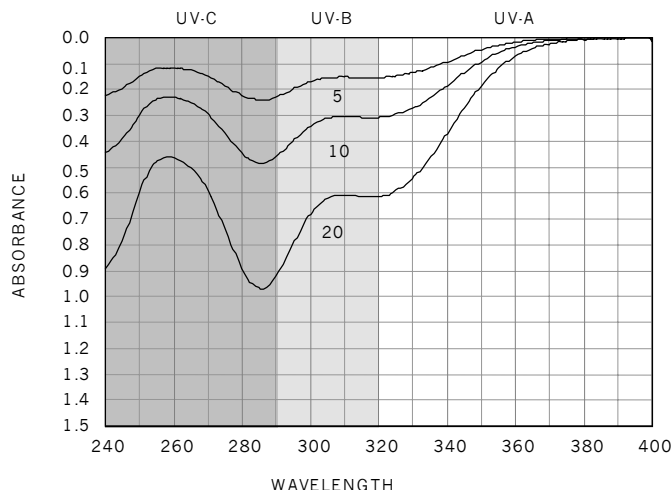
Cosmetic regulatory status

ECC: Directive 76/768 Annex VII Part 1 No. 4; 5% (as acid)

USA: Final Monograph by FDA on OTC sunscreens; 10% max.

Japan: 10% max.

UV ABSORPTION SPECTRA OF UVASORB
(Ethanol)



Toxicological information

LD ₅₀ (oral)	> 3000 mg/kg
Acute skin irritation	slightly irritant
Acute eye irritation	irritant
Skin irritation and sensitization in man (5% in water)	no evidence of irritation
Ames test	negative
Photomutagenicity	no evidence of photomutagenicity
90 days oral feeding study in rats	NOEL = 15000 ppm
(See also: C.I.R. - Final Report on the Safety Assessment of Benzophenones - Journal of the American College of Toxicology, Volume 2, Number 5, 1983)	

Transport, storage and handling

Labeling: Product is not classified as hazardous according to international transport regulations.

Irritating to eyes, skin and respiratory system. In case of contact with eyes or skin, immediately remove contaminated clothing and rinse with plenty of water. If symptoms develop, seek medical advice. Do not breathe dust.

Store in the original closed containers in a dry cool place. Protect from moisture (hygroscopic product) and light.

For further information, please refer to safety data sheet.

The information in this data sheet is based on our present and best knowledge. We make no warranty, whether expressed or implied, including warranties of merchantability or of fitness for a particular use or purpose. Consequently the product must be tested by the user according to his needs and his production and application conditions and purposes. Neither do we assume any responsibility for infringement of third parties patent rights, which may arise from the use of the product. For industrial use only. USA.JP.UvaS5.0901



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