



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

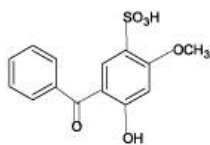
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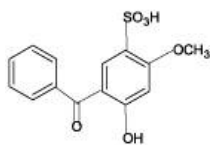
BENZOPHENONE 4

Exposure to damaging ultraviolet light from the sun's rays, UV-A or UV-B, accounts for 90% of the symptoms of premature skin ageing such as wrinkles and skin cancers. UV-A radiation (320-400nm) is linked with the loss of skin elasticity, wrinkling and premature ageing, whilst the more powerful UV-B radiation (290-320nm) is linked to sunburn, cell damage and cancer risk.

Ben-4 is a broad spectrum UV-filter absorbing in both the UV-A and UV-B range. **Ben-4** is water-soluble, facilitating easy incorporation into a wide range of skin care, hair care and sunscreen products.

Product name:	Ben-4
Chemical name:	2-hydroxy-4-methoxybenzophenone-5-sulphonic acid
INCI:	Benzophenone-4
CAS:	4065-45-6
EINECS:	223-772-2
USAN:	Sulisobenzone
UV-absorption range:	260—360nm



Chemical structure:	
Molecular Formula:	C ₁₄ H ₁₂ O ₆ S
Molecular Weight:	308.31
Applications:	Sun care - SPF sunscreens, skin care products with protective UV-filter, protective hair care formulations, UV-stabilising additive for colour protection of UV-sensitive cosmetics preparations, as well as wool, pesticides and other industrial usage areas.

Product Specification

Appearance:	Pale yellow crystalline powder
Absorbance:	460 - 490 (aqueous solution, 286nm)
Loss on drying:	≤ 5.0%
Purity by GC:	≥ 97.0%
Solubility Data:	Soluble in water and ethanol, stable in pH range 5-8
Known incompatibilities:	Not compatible with Mg salts, particularly in water-oil emulsions
Regulatory status max concentrations:	US = 10%, Japan = 10%, EU = 5%, Australia = 10%, Canada = 10%
Application information:	Pre-dissolve in water prior to mixing into formulation. Adjust to neutral pH with suitable base.
Packaging:	Standard 25kg HDPE drum
Storage recommendations:	Shelf life 2 years when stored in original sealed container, store in cool, dry environment away from direct sunlight and below 25°C.
Pharmacopoeia information:	conforms to USP
Absorption spectrum:	

