10800 231st Way NE
Redmond, WA 98053
Phone: 425-292-9502
makingcosmetics.com

Updated: 03-Nov-2026

Avobenzone

Specification Sheet

Description: Oil-soluble UVA filter. Ability to absorb ultraviolet light over a wider range of wavelengths than many other sunscreen agents. Absorption maximum of 357 nm.

CAS: 70356-09-1

INCI Name: Butyl methoxydibenzoyl methane

Composition: Butyl methoxydibenzoyl methane

Appearance: Off-white to yellowish, crystalline powder, weak odor

Benefits:

- Oil-soluble UVA filter
- Can easily be combined with other sunscreens (e.g. octocrylene, homosalate, ethylhexyl salicylate, OM-cinnamate)

Use: Incorporate into oil phase, allowed use levels: USA 3%, EU 5%, Brazil 5%, Japan 10%. Do not use avobenzone together with titanium dioxide and/or zinc oxide (avobenzone can lose its activity). Ions of heavy metals may induce colored complexes (use EDTA to avoid). Stearates, aluminum, zinc or magnesium salts may induce precipitations. For external use only.

Applications: Sun care products, baby sun care products, daily sun protection, decorative cosmetics.

Solubility: Water-insoluble, soluble in isopropanol, octocrylene, decyl oleate, capric/caprylic triglyceride, and other oils

Preservation: Preservative-free

Storage: Store tightly closed, below 40°C (104ºF) in a light-protected, dry area

Country of Origin: India

Raw material source: 4-tert-butylbenzoic methyl ester and 4-methoxyacetophenone

10800 231st Way NE
Redmond, WA 98053
Phone: 425-292-9502
makingcosmetics.com

Manufacture: Avobenzone is produced synthetically by reacting 4-tert-butylbenzoic methyl ester (from 4-tert-butylbenzoic acid by esterification with methanol) with 4-methoxyacetophenone in toluene in the presence of sodium amide.

Animal Testing: Not animal tested

GMO: GMO-free (does not contain plant-derived components)

Vegan: Does not contain animal-derived components

HS Code: 3304100000

Regulatory Information: Sunscreens are registered as API (Active Pharmaceutical Ingredient) or OTC-drug with the FDA. This means that, if you want to sell products containing a sunscreen, your facility must be registered with the FDA and operate under cGMP guidelines. Further information about the FDA regulation of sunscreens can be found in our resource section.