

## Oxybenzone

### Specification Sheet

**Description:** Solid oil soluble UVA/UVB sunscreen. Aromatic ketone (synonyms: 2-hydroxy-4-methoxy-benzophenone, benzophenone-3). Pale yellow crystalline powder, weak rose-like odor. Water-insoluble, soluble in alcohol & oil.

**CAS:** 131-57-7

**INCI Name:** Benzophenone-3

**Benefits:**

- UVA and UVB filter (primarily UVB but also UVA)
- Enhances activity of other sunscreens (e.g. homosalate, octyl salicylate, OM-cinnamate, octinoxate)
- Protects polymers and organic substances in cosmetic products
- Stabilizes complex formulations and color cosmetics

**Use:** Incorporate into oil phase. Allowed use levels in the USA: up to 6% alone and 2-6% when used in combination with other sunscreen actives. Allowed levels in other countries: EU 10%, Japan 5%. For external use only. Store light- protected.

**Applications:** Sun care products (including baby sun care), color cosmetics with sun protection, various cosmetics & fragrances for product protection.

**Country of Origin:** USA

**Raw material source:** Benzoyl chloride and 3-hydroxyanisole

**Manufacture:** Oxybenzone is produced synthetically by the reaction of benzoyl chloride with 3-hydroxyanisole. The product is then recrystallized from water/methanol and dried.

**Animal Testing:** Not animal tested

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

**Vegan:** Does not contain animal-derived components

**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 [here](#).