

## Titanium Dioxide in Aqua

### Specification Sheet

**Description:** Ultrafine (micronized) titanium dioxide dispersed in water for easy formulating at a concentration of 40%. Medium particle size is 134nm. White to off-white thixotropic (gel-like, but fluid when agitated) dispersion with characteristic odor, liquefies upon stirring. Soluble in water, insoluble in oil.

**CAS:** 13463-67-7, 7732-18-5, 1344-28-1, 60676-86-0, 9003-04-7, 56-81-5, 122-99-6, 11138-66-2, 104-29-0

**INCI Name:** Water, titanium dioxide, alumina, silica, sodium polyacrylate, glycerin, phenoxyethanol, xanthan gum, chlorphenesin

**Benefits:**

- Reflects sunlight (UVB rays)
- Is completely non-greasy
- Has a synergistic effect when combined with other sun screens
- Can be used in water based products such as creams and lotions where sun protection is desired

**Use:** Add to water phase of formulas. Typical use level is 5-30%. Shake or stir dispersion before use. For external use only.

**Applications:** Sun care products, color cosmetics with or without sun protection.

**Country of Origin:** USA

**Raw material source:** Ilmenite

**Manufacture:** Titanium dioxide is made from the mineral ilmenite and sulfuric acid to produce synthetic rutile which consists then of more than 90% of titanium dioxide.

**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](#).