



Much Ado About TiO₂

Intro (0:00 – 3:01 min)

- [Daily Intake Blog: FDA Publishes Stance on Titanium Dioxide in Food](#)

Background of TiO₂ (3:01 – 4:46 min)

- [TiO₂ Espionage Story](#)

Safety of TiO₂ and EU Activity/Ban (4:46 – 13:46 min)

- U.S. Food and Drug Administration (FDA)
 - [Daily Intake Blog: FDA Publishes Stance on Titanium Dioxide in Food](#)
- European Chemicals Agency (ECHA)
 - [CLH report: Proposal for Harmonised Classification and Labelling Based on Regulation \(EC\) No 1272/2008 \(CLP Regulation\), Annex VI, Part 2, Substance Name: Titanium dioxide](#)
 - [Commission Delegated Regulation \(EU\) 2020/217 of 4 October 2019 amending, for the purposes of its adaptation to technical and scientific progress, Regulation \(EC\) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting that Regulation \(Text with EEA relevance\)Text with EEA relevance](#)
- European Court of Justice (CEJU) cases on inhalation classification
 - [The General Court annuls the Commission Delegated Regulation of 2019 in so far as it concerns the harmonised classification and labelling of titanium dioxide as a carcinogenic substance by inhalation in certain powder forms \(europa.eu\)](#)
 - [Appeal brought on 8 February 2023 by the French Republic against the judgment of the General Court](#)
- France

- [Order of December 27, 2023 suspending the marketing of foodstuffs containing the additive E 171 \(titanium dioxide - TiO₂\)](#)
- [Directorate General for Competition, Consumer Affairs and Fraud Prevention \(DGCCRF\) Titanium dioxide in foodstuffs: everything must disappear](#)
- [USDA GAIN Report \(dated May 8, 2019\): France Bans Titanium Dioxide in Food Products by January 2020](#)
- [French Law no. 2018-938 of October 30, 2018 for the balance of commercial relations in the agricultural and food sector and healthy, sustainable and accessible food for all](#)
- Opinions from the French Agency for Food, Environmental and Occupational Health & Safety (ANSES)
 - [Titanium dioxide nanoparticles in food \(additive E171\): biological effects need to be confirmed](#)
 - [Establishment of Chronic Reference Value by inhalation for Titanium Dioxide under nanoform](#)
 - [Food additive E171: ANSES reiterates its recommendations for consumer safety](#)
 - [Opinion on a specific health risk assessment guide for nanomaterials in food products](#)
- EU Ban on TiO₂ as a food additive
 - [USDA GAIN Report \(dated March 3, 2022\): Titanium Dioxide Banned as a Food Additive in the EU](#)
- WHO Statement [JECFA's risk assessment of titanium dioxide risk released](#) (dated 24 November 2023)

TiO₂ Activity at the State Level (13:46 – 16:51 min)

- U.S. Food and Drug Administration (FDA)
 - [FDA Announcement: Titanium Dioxide as a Color Additive in Foods](#)
 - [21 C.F.R. Section 73.575 -- Titanium dioxide](#)
 - [21 C.F.R. Section 178.3297 -- Colorants for polymers](#)

Dr. Ivan Boyer - Details on TiO₂ Data and Risk Assessments (16:51 – 25:50 min)

- Opinions by the European Food Safety Authority (EFSA)
 - [Re-evaluation of titanium dioxide \(E 171\) as a food additive](#) (Published 14 September 2016)
 - [Evaluation of four new studies on the potential toxicity of titanium dioxide used as a food additive \(E 171\)](#) (Published 4 July 2018)
 - [Safety assessment of titanium dioxide \(E171\) as a food additive](#) (Published 6 May 2021)

Conclusion and Upcoming Events (25:50 – 28:36 min)

- [2024 Paper Packaging Seminar \(May 14-15, 2024\)](#)