Risk characterisation - Statement on the safety of Titanium Dioxide (E171) as a Food Additive

In this guide

In this guide

- 1. Executive Summary Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 2. <u>Introduction Statement on the safety of Titanium Dioxide (E171) as a Food</u>
 Additive
- 3. <u>Titanium Dioxide Statement on the safety of Titanium Dioxide (E171) as a</u> Food Additive
- 4. Absorption, Distribution, Metabolism and Excretion (ADME)
- 5. Review of toxicity for endpoints identified by the COT
- 6. Reproductive and Developmental Toxicity Statement on the safety of <u>Titanium Dioxide (E171) as a Food Additive</u>
- 7. Aberrant Crypt Foci (ACF) as a potential biomarker for carcinogenicity
- 8. <u>Genotoxicity Statement on the safety of Titanium Dioxide (E171) as a Food</u>
 Additive
- 9. <u>Inflammation and Immunotoxicity Statement on the safety of Titanium Dioxide (E171) as a Food Additive</u>
- 10. <u>Neurotoxicity Statement on the safety of Titanium Dioxide (E171) as a Food</u>
 Additive
- 11. <u>Establishment of a Health-Based Guidance Value (HBGV) Statement on the</u> safety of Titanium Dioxide (E171) as a Food Additive
- 12. Exposure Assessment Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 13. <u>Assumptions and uncertainties Statement on the safety of Titanium Dioxide</u> (E171) as a Food Additive
- 14. Risk characterisation Statement on the safety of Titanium Dioxide (E171) as a Food Additive

- 15. <u>Conclusions Statement on the safety of Titanium Dioxide (E171) as a Food</u>
 Additive
- 16. <u>Abbreviations Table Statement on the safety of Titanium Dioxide (E171) as</u> a Food Additive
- 17. References Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 18. Annex A Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 19. Annex B Summary table of studies
- 20. Annex C Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 21. Annex D Statement on the safety of Titanium Dioxide (E171) as a Food Additive
- 296. Exposures for all population groups for the mean total diet are below or very close to the HBGV of 10 mg/kg bw per day. Adverse health effects would not be expected for any of these populations.
- 297. Exposures calculated for the 95th percentile total diet range from 9.1 to 26 mg/kg bw per day. The exposures for adults (18 +) and the elderly are below the HBGV and adverse health effects would not be expected. The remaining exposures are 1.3- to 2.6-fold the HBGV. However, for reasons discussed in the assumptions and uncertainties section, exposures are very likely to be lower than estimated. In addition, the as explained above, the factors used to establish the HBGV are likely to be more conservative than those typically used. Therefore, it is unlikely that there would be a risk to health from exposures of E171 TiO2 from the diet.