

# **Fifth draft statement on the safety of Titanium Dioxide (E171) as a Food Additive- Annex B**

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## **Committee on the Toxicity of Chemicals in Food, Consumer Products and the Environment.**

# **Third draft statement on the safety of Titanium Dioxide (E171) as a Food Additive - Annex B**

### **1. The search terms**

- ◦ Search "In Vitro Techniques"[Mesh] OR "Caco-2 Cells"[Mesh] OR "Lysosomes"[Mesh] OR "Hypoxanthine Phosphoribosyltransferase"[Mesh] OR "Autopsy"[Mesh] OR "Micronucleus Tests"[Mesh] OR "Pathology"[Mesh] OR Autops\*[tiab] OR histopath\*[tiab] OR "in vivo"[tiab] OR "in vitro"[tiab] OR GALT[tiab] OR Caco 2 cell\*[tiab] OR Colonic Epithelial Cell\*[tiab] OR Colorectal epithelial cell\*[tiab] OR Comet assay\*[tiab] OR HPRT[tiab] OR "Hypoxanthine Phosphoribosyltransferase"[tiab] OR "hypoxanthin phosphoribosyl transferase"[tiab] OR Lysosom\*[tiab] OR "M cell"[tiab] OR "M cells"[tiab] OR "Microfold cell"[tiab] OR "Microfold cells"[tiab] OR Micronucleus assay\*[tiab] OR Micronucleus test\*[tiab] OR "read across"[tiab] OR SCGE assay\*[tiab] OR single-cell gel electrophoresis assay\*[tiab] OR "xanthine guanine phosphoribosyl transferase"[tiab] OR "xanthine guanine phosphoribosyltransferase"[tiab] OR xprt[tiab] AND titanium dioxide (322; 19)
- ◦ Search "Aneugens"[Mesh] OR "Aneuploidy"[Mesh] OR "apoptosis"[Mesh] OR "Chromatids"[Mesh] OR "Chromosomes"[Mesh] OR "DNA Damage"[Mesh] OR "DNA Repair"[Mesh] OR "Mutagens"

[Pharmacological Action] OR "Mutagens"[Mesh] OR  
"Mutagenesis"[Mesh] OR "Oxidative Stress"[Mesh] OR Aneugen\*[tiab]  
OR Aneuploid\*[tiab] OR Chromatid\*[tiab] OR Chromosome\*[tiab] OR  
Clastogen\*[tiab] OR "DNA binding"[tiab] OR DNA fragmentation\*[tiab]  
OR DNA damage\*[tiab] OR "DNA lesion"[tiab] OR "DNA lesions"[tiab] OR  
"DNA repair" [tiab] OR genotox\*[tiab] OR mutagen\*[tiab] OR  
Mutat\*[tiab] OR oxidative stress\*[tiab] AND titanium dioxide (209; 16)

- ○ (Titanium dioxide AND Nanoparticles AND E171 AND toxicology) (1);  
(Titanium dioxide AND Nanoparticles AND E171 AND genotoxicity) (8);  
(Titanium dioxide AND Nanoparticles AND E171 AND human health)  
(13); (Titanium dioxide AND Nanoparticles AND E171 AND adverse  
effects) (7); (Titanium dioxide AND Nanoparticles AND E171 AND  
reproductive toxicity) (5); (Titanium dioxide AND Nanoparticles AND  
E171 AND developmental toxicity) (2); (Titanium dioxide AND  
Nanoparticles AND E171 AND Distribution) (8); (Titanium dioxide AND  
Nanoparticles AND E171 AND Metabolism) (4); (Titanium dioxide AND  
Nanoparticles AND E171 AND Excretion) (1); (Titanium dioxide AND  
Nanoparticles AND E171 AND ADME) (1); (Titanium dioxide AND  
Nanoparticles AND E171 AND immunotoxicology) (0); (Titanium dioxide  
AND Nanoparticles AND E171 AND neurotoxicology) (0).