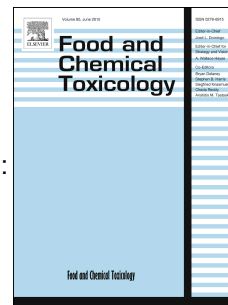


# Accepted Manuscript

Risk Assessment Strategies for Nanoscale and Fine-sized Titanium Dioxide Particles:  
Recognizing Hazard and Exposure Issues

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PII: S0278-6915(15)30009-0

DOI: [10.1016/j.fct.2015.07.001](https://doi.org/10.1016/j.fct.2015.07.001)

Reference: FCT 8342

To appear in: *Food and Chemical Toxicology*

Received Date: 2 June 2015

Revised Date: 29 June 2015

Accepted Date: 1 July 2015

Please cite this article as: Warheit, D.B., Donner, E.M., Risk Assessment Strategies for Nanoscale and Fine-sized Titanium Dioxide Particles: Recognizing Hazard and Exposure Issues, *Food and Chemical Toxicology* (2015), doi: 10.1016/j.fct.2015.07.001.

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**Revised manuscript Food and Chemical Toxicology  
Post 6-29-2015 – Manuscript Number FCT-D-15-00802**

## **Risk Assessment Strategies for Nanoscale and Fine-sized Titanium Dioxide Particles: Recognizing Hazard and Exposure Issues**

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### **ABSTRACT**

The basic tenets for assessing health risks posed by nanoparticles (NP) requires documentation of hazards and the corresponding exposures that may occur. Accordingly, this review describes the range and types of potential human exposures that may result from interactions with titanium dioxide (TiO<sub>2</sub>) particles or NP – either in the occupational/workplace environment, or in consumer products, including food materials and cosmetics. Each of those applications has a predominant route of exposure. Very little is known about the human impact potential from environmental exposures to NP – thus this particular issue will not be discussed further. In the workplace or

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