



Dunkin' Donuts will stop using this scary-sounding chemical in their donuts. Phew.



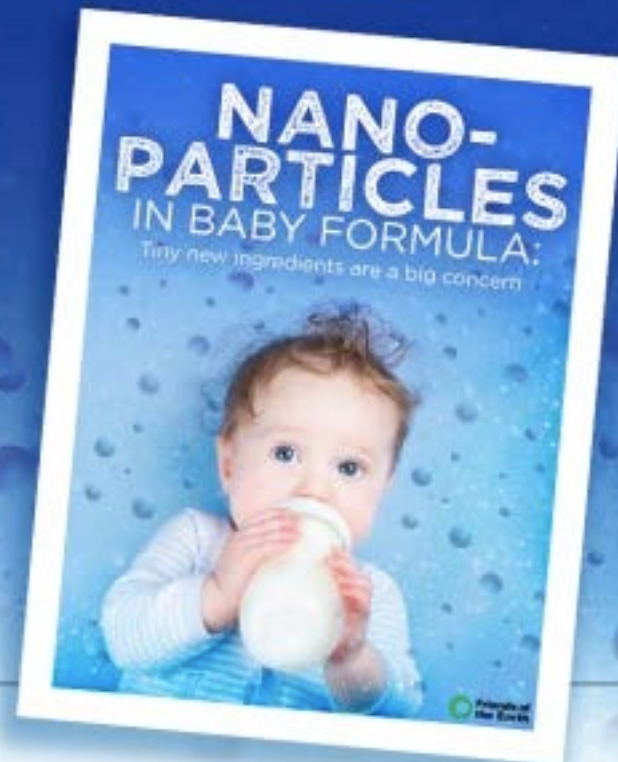
dangers of

Deaths, lung damage linked to nanoparticles in China

LETTERS

the
rest-

BREAKING:
New report finds
tiny, hazardous
nano-ingredients
in baby formula



Nano-

AGAINST THIS BACKDROP...

MANAGER'S JOURNAL

Let's Get Nanotech Right

By Fred Krupp and Chad Holliday

Updated June 14, 2005 12:01 a.m. ET

The science of the small is raising big expectations. New materials a tenth the size of a human cell, engineered atom by atom, promise to revolutionize everything from energy production to medicine. We've seen many extravagant predictions surrounding this new world called nanotechnology: A single slender cable built from nanoparticles might carry the world's total electrical supply. Environmental burdens might be lifted by nano-pores that desalinate water or nano-cages



'[p]robably for the first time ever, the attempt to develop a regulatory framework for a new technology is emerging on the public agenda hand in hand with the development of the technology itself'

– Levi-Faur and Comaneshter (2007)

SOFT LAW SOLUTIONS

a. Industry Self-Regulation

- BASF Code of Conduct
- Foresight Guidelines for MNT
- NanoSAFE

b. Public-Private Partnerships

- EDF-DuPont Nano Risk Management Framework
- NanoCode
- OECD Testing Programme of Manufactured Nanomaterials

c. Third Party Requirements

- Standards bodies – ISO TC229 – Nanotechnologies

d. Voluntary Government Programs

- EPA Nanoscale Materials Stewardship Program
- FDA Guidance documents



News Release



Further research on effects of nanomaterials

- **BASF participates in BMBF research project on safety of nanomaterials**
- **Results allow easier and faster evaluation of nanomaterial behavior**

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 P 323/13e
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A few years ago, the media mostly reported about the opportunities and benefits of nanotechnology. The reporting on nanotechnology. The discussion shifted towards possible

Dialogforum Nano of BASF 2014 | 2015

Fostering transparency and responsible innovation with nanomaterials

After six years of work, *the OECD and its member countries have come to the conclusion that the approaches for the testing and assessment of traditional chemicals are in general appropriate for assessing the safety of nanomaterials, but may have to be adapted to the specificities of nanomaterials.* As with other chemicals, it is clear that each nanomaterial may pose specific challenges, but in most instances, they can be addressed with existing test methods and assessment approaches. In some cases, it might be necessary to adapt methods of sample preparation and dosimetry for safety testing. Similarly, adaptations may be needed for certain Test Guidelines. But it will not be necessary to develop completely new approaches for nanomaterials. OECD continues to review all existing methodologies to identify and implement the necessary changes needed for their application to nanomaterials.

- Pooled resources of OECD member countries, non-member countries + industry + academia to fund /contribute to nanomaterial safety testing
- Priority list of 11 nanomaterials
- 7 years, over 780 studies

[Cerium oxide](#)

[Dendrimers](#)

[Fullerenes \(C60\)](#)

[Gold nanoparticles](#)

[Multi-walled carbon nanotubes \(MWCNTs\)](#)

[Nanoclays](#)

[Silicon dioxide](#)

[Silver nanoparticles](#)

[Single-walled carbon nanotubes \(SWCNTs\)](#)

[Titanium dioxide \(NM100-NM105\)](#)

[Zinc oxide](#)

3. THIRD PARTY REQUIREMENTS

- ISO: independent/non-governmental international organization; creates voluntary, consensus-based standards
- Focus: market/industry
- ISO/TC229 - Nanotechnologies (2005-)
- 35 participating members; 16 observers
- Focus: terminology & nomenclature; metrology and instrumentation; test methods; modelling and simulations; EHS practices
- 64 standards; 42 under development

4. GOVERNMENT PROGRAMS



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At last: EPA promulgates nanomaterial reporting rule

By [Richard Denison](#) / [Bio](#) / Published: January 11, 2017



NEXT STEPS...

- EU & NZ: only jurisdictions to have enacted nano-specific legislation
- US: reporting rule, guidance documents, case by case approach
- (New) push in Australia for nano-safety regulator
- Window for soft law to really take hold...but...