

OECD contribution to regulatory development at EU level and in particular REACH

CEFIC Nano and REACH WS 2011

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Contents

- OECD Work
- and REACH

Working Party on Manufactured Nanomaterials

- Established in Sep. 2006
- Subsidiary body of the Chemicals Committee
- Aims to promote international co-operation in addressing human health and environmental safety aspects (EHS) of MNs
- Eight Projects including Sponsorship Programme
- 1st WPMN (Oct 2006) ~ 8th WPMN (16-18 Mar 2011)
 - 9th WPMN (Dec 2011), 10th WPMN (June 2012)

II. Major projects of the WPMN

OECD Database on Manufactured Nanomaterials to Inform and Analyse EHS Research Activities (SG1/2)

Safety Testing of a Representative Set of Manufactured Nanomaterials: Sponsorship Programme (SG3)

Manufactured Nanomaterials and Test Guidelines (SG4)

Co-operation on Voluntary Schemes and Regulatory Programmes (SG5)

Co-operation on Risk Assessment (SG6)

The Role of Alternative Methods in Nano Toxicology (SG7)

Exposure Measurement and Exposure Mitigation (SG8)

Environmentally Sustainable Use of Manufactured Nanomaterials (SG9)

III. Recent Progress of WPMN work

■ OECD Database on MNs to Inform and Analyse EHS Research Activities (SG1/2)

- DB launched in April 2009, including 800+ records
- Develop a strategy to address incomplete entries; and linkage with other DBs (such as the JRC NanoHUB)

■ Safety Testing of MNs: Sponsorship Programme(SG3)

- Stage 1: list of MNs(13), list of endpoints(59)
- Stage 2: (July 2009) Summary Matrices on testing status/test methods (Mar. 2011)
- 2 Task Groups on Completing Phase 1 and Developing Phase 2 (both December 2011)
- Interim report (Dec 2011) & target to finish Phase 1 (June 2012)

	Lead sponsor(s)	Co-sponsor(s)	Contributors
Fullerenes(C60)	Japan, US		Denmark, China
SWCNTs	Japan, US		Canada, France, Germany, EC, China, BIAC
MWCNTs	Japan, US	Korea, BIAC	Canada, France, Germany EC, China, BIAC
Silver nanoparticles	Korea, US	Australia, Canada, Germany, Nordic Council of Ministers	France, Netherlands, EC, China, BIAC
Iron nanoparticles	China	BIAC	Canada, US, Nordic Council of Ministers
Titanium dioxide	France, Germany	Austria, Canada, Korea, Spain, US, EC, BIAC	Denmark, Japan, UK, China
Aluminium oxide			Germany, Japan, US
Cerium oxide	US, UK/BIAC	Australia, Netherlands, Spain	Denmark, Germany, Japan Switzerland, EC
Zinc oxide	UK/BIAC	Australia, US, BIAC	Canada, Denmark, Germany, Japan, Netherlands, Spain, EC
Silicon dioxide	France, EC	Belgium, Korea, BIAC	Denmark, Japan
Dendrimers		Spain, US	Austria, Korea
Nanoclays	BIAC		Denmark, US, EC
Gold nanoparticles	South Africa	US	Korea, EC

MNs and Test Guidelines (SG4)

- Update Guidance Notes on Sample Preparation and Dosimetry (GNSPD) for Safety Testing of MNs
- Develop TGs and Coordinate with the WNT

Voluntary Schemes and Regulatory Programme (SG5)

- Two follow-up report on: i) Analysis of Information Gathering Schemes; and ii) Regulated Nanomaterials
- Collaborative Workspace will be developed (Phase 2)

Co-operation on Risk Assessment (SG6)

- Report on Risk Assessment of MNs: *Critical issues*

Alternative Methods in Nanotoxicity (SG7)

- 1st & 2nd Expert Consultation Meeting (Apr 2010, Jan 2011)
- *in vitro* dispersion protocols for ZnO; and an ITS case study with a short term inhalation study (March 2011)

Exposure Measurement and Exposure Mitigation(SG8)

- Publication of Compilation and Comparison of Guidelines Related to Exposure to Nanomaterials in Laboratories (Dec.2010)
- Developing Case Studies for exposure assessment on MNs

Environmentally Sustainable Use of MNs (SG9)

- Established following Nanobenefits Conference (July 2009)
- Report on national activities related to LCA & nanotech (2011)
- A workshop and face-to-face meeting (September 2011)

And REACH

- We share the 'burden'
- We develop common technical understanding
- We develop common technical tools

but

- Was the work used by industry for registration?
- Was the registration work by industry used in WPMN?

Thank You very much

**Safety of
Manufactured Nanomaterials**

www.oecd.org/env/nanosafety

Contact OECD Secretariat

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E U R O P A

Thank you!

<http://europa.eu.int/comm/environment/chemicals/index.htm>

[http://echa.europa.eu/home_en.asp/](http://echa.europa.eu/home_en.asp)

<http://europa.eu.int/comm/enterprise/chemicals/index.htm>