

Emerging Policy Issue

Nanotechnologies and manufactured nanomaterials

7 September 2018, Geneva, Switzerland

International Policy Development





There has been a remarkable development and application of nanotechnology, manufactured nanomaterials, and nano-enabled products throughout the world, which have many potential benefits, as well as potentially creating health, environmental risks, and social concerns.

ICCM4 (2015) - resolution IV/2

- Reaffirms previous resolutions from ICCM2 and ICCM3
- Encourages SAICM stakeholders to address the sound management of manufactured nanomaterials in relevant national and international instruments, including regulatory frameworks
- Welcomes the establishment of regional networks focusing on the safety of nanomaterials (as developed at the 2015 regional workshops)



STRATEGIC APPROACH TO

INTERNATIONAL CHEMICALS MANAGEMENT

- Emphasizes the need to continue facilitating the exchange of information on the sound management of manufactured nanomaterials throughout their life cycle
- Emphasizes the need for UNITAR and OECD to continue development of international guidance and training materials
- Invites all stakeholders to continue raising awareness and enhance capacity
- Encourages SAICM stakeholders to consider using the guidance for the Development of a National Nanotechnology Policy and Programme



STRATEGIC APPROACH TO

INTERNATIONAL CHEMICALS MANAGEMENT



Global Chemicals Outlook-II

Four main chapters:

1. Global Context, Trends and Developments
2. Review of Chemicals Management Topics and Instruments Up to and Beyond 2020
3. Review of Enabling Environment and Drivers of Change
4. Options for Implementation of Actions Towards Relevant SDGs up to and Beyond 2020

For publication around the end of 2018/ early 2019



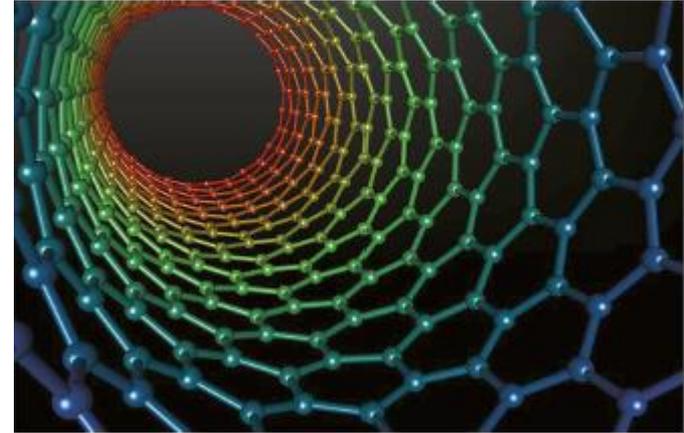
Part 2- Review of Chemicals Management Topics and Instruments Up to and Beyond 2020

Chapter 3: SAICM emerging policy issues: State of knowledge

Proposed delivery of the GCO-II in the first quarter of 2019

Important for a topic like nanomaterials: it will be able to showcase what science there is and how this is relevant for policy makers. As it is to look at “beyond 2020”, should also point to areas where new/ more work is needed

WHO GUIDELINES ON PROTECTING WORKERS FROM POTENTIAL RISKS OF MANUFACTURED NANOMATERIALS



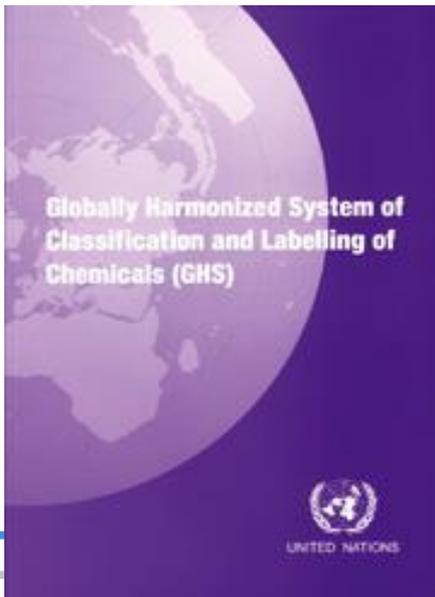
Now available online:



http://www.who.int/occupational_health/publications/manufactured-nanomaterials/en/

UNECE sub-committee of experts on the GHS (Dec. 2017)

“The Sub-Committee noted that the informal working group was following the progress of the work on safety of nanomaterials undertaken by the OECD and ECHA and that it intended to build on these outcomes to consider the applicability of GHS to such substances.”





Basel Convention to consider waste containing nanomaterials

- Decision BC-13/17 (2017):
- Secretariat of the Basel, Rotterdam and Stockholm Conventions to prepare:
 - Report on issues related to waste containing nanomaterials and options for possible work under the Basel Convention within its scope
 - Compilation of information on existing activities that address such waste
- Was considered by the Basel Convention Open-ended Working Group at its 11th meeting (Geneva, 3-6 September 2018)

UNITAR work



UNITAR designated as a co-lead on the EPI with OECD



UNITAR's work focuses on:

- National policy development projects
- Regional awareness-raising and information sharing workshops
- e-Learning course
- Guidance development

Significant funding support from the Government of Switzerland for relevant activities



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Armenia:

The Project aimed to:

- increase the awareness about nano safety in different layers of population,
- facilitate in human resource development issues regarding nano safety,
- strengthen national capacities for chemicals management, especially in such a new area

Armenia:

Main outcomes:

- Information sharing and network of stakeholders developed
- A nanosafety policy drafted
- A nanosafety chapter to be added to the national profile on chemicals management

Vietnam:

The main objective of this cooperation is to raise awareness and strengthen the capacity of Governmental agencies, research institutes, centers, universities, businesses and the community in nano safety management for protecting environment and human health in Vietnam.

Vietnam:

Outcomes:

- Developed a proposal for activities for 2016-2020
- Developed a national vision up to 2025
- Reviewed activities and ongoing research in Viet Nam related to nano
- Assessed national nanosafety priorities

Jordan:

Project objective:

a training and capacity building project to support implementation of nano safety

- Developed a national workplace safety guidance document
- *Project ongoing – to be completed in 2018*



2015 regional workshops:

- Nanosafety Regional Workshop for the African Region Zambia, 16 and 17 April 2015
- Nanosafety Regional Workshop for the Latin American and Caribbean Region, Colombia, 22 to 24 June 2015
- Nanosafety Regional Workshop for the Asia-Pacific Region, Thailand, 10 to 11 September 2015



Main outcomes:

- Each region was able to develop a nanosafety network from the participants
- Identification and prioritization of the needs in each region
- Information shared among experts and national focal points



Regional workshops in 2018:

- LAC region. Panama City, Panama, 1 and 2 February 2018
- CEE region. Lodz, Poland, 22 and 23 February 2018
- Share information, updates on latest research in the region, overview of the WHO guidelines on protecting workers from the potential risks of manufactured nanomaterials, assessment/ update of new priority areas, and discussion on relevance/needs for nanosafety in the post-2020 framework

LAC region – priorities

- Including civil society in the key stakeholders' network
- Include the ILO more specifically
- Develop more lists and registries of use of nanomaterials
- WHO to work through regional offices to disseminate the WHO guidelines
- Increase the direct links to SAICM focal points to ensure commitment and action on the emerging policy issue continues
- Vital to continue sharing information, and enhancing capacities and knowledge
- Ensure perspectives in the region are captured in relevant documents and fora (e.g. the Global Chemicals Outlook)
- A call was made for all participants to share their activities and updates during the tour de table section of the OECD Working Party on Manufactured Nanomaterials
- Enhancing traceability of products, and information on companies that are manufacturing and/or importing nanomaterials, in addition to generating an inventory of consumer products

CEE region – priority actions

Looking beyond 2020, working group one identified:

- development of a clear methodology for studying the effects of nanomaterials
- harmonization of laboratory studies on the safety of nanomaterials
- development of laboratory-validated methods for controlling the content of nanomaterials in the workplace and in products
- the creation of a global scientific database of nanomaterials and a common information platform
- development of recommendations for relevant waste containing nanomaterials
- translation of information for a broader audience

CEE region – priority actions

Working group two identified:

- Create a programme for beyond 2020.
- Exchange information and increase technical cooperation at all levels. Basic information still a valid place to start
- Utilize available guidance and
- Raising awareness



UNITAR e-Learning course on nanosafety:

Last run in 2015.

Insufficient interest in the course to run it since.
Possible revision and upgrade to include the
WHO guidelines.

Please contact UNITAR if you are interested in
participating

To support country-driven processes on nano, UNITAR has developed a guidance document entitled:

“Developing a National Nanotechnology Policy and Programme”, available in English, Russian and Spanish.

<http://cwm.unitar.org/publications/publications/Nano.aspx>

www.unitar.org/cwm (go to 'our portfolio' on left hand side and select Nanotechnology)

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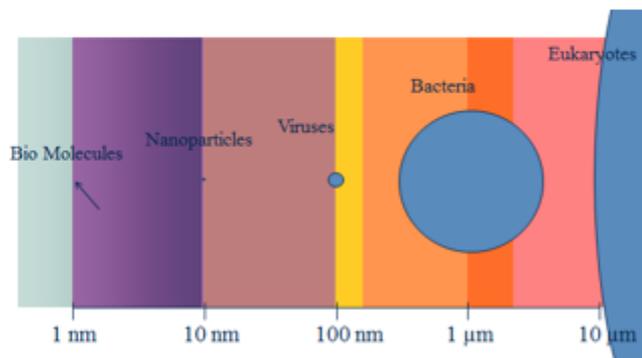
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CWM Brochure



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Nanotechnology

Overview

Nanotechnology and manufactured nanomaterials (nano) is a growing industry which





Part A: Background and Introduction

- 1. Working definitions
- 2. Nano Applications
- 3. Environmental and Health Concerns
- 4. Worker Health and Safety
- 5. Classification and Labelling
- 6. Research and Training Activities on Nano
- 7. Ethical Considerations
- 8. Relevant International Work



Part B : Developing a National Nano Programme

- 9. Development of a National Nano Policy and Programme
- 10. Developing the National Nano Assessment
- 11. Priority Setting of Nano
- 12. Establishing a Coordinating Mechanism
- 13. Stakeholder Training
- 14. Establishing an Action Plan for Implementation
- 15. Country Examples (Thailand, Switzerland)

<http://unitar.org/cwm/portfolio-projects/nanotechnology>

Thanks

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