

MANAGING EXPOSURE TO NANOPARTICLES : UNDERSTANDING THE RISK

Learning Outcomes

- Learn how to define a nanoparticle
- Understand the risk associated with nanoparticles
- Integrate the nanoparticles into the company's OHS challenges
- Become aware of the possible risks
- Be able to judge internal risk and make a request for initial analysis of the risk

Abstract

This session will outline the basic principles of nanoparticles.

What is a nanoparticle? Learn the definitions and different vocabulary used in regulatory texts.

How do they form? Naturally or manufactured, nanoparticles generation is either intentional or non-intentional and thus, difficult to spot.

Where do we find them? Which industries are of concern? A lot of industries now are using nanomaterials intentionally for their physical and chemical properties, discover which ones and how you can get exposed to them within your processes.

This session will end with some insights on what are the health effects, biological interactions with the body and already known risks that has justified some legislations to put in place OELs for dedicated nanomaterials.

Agenda

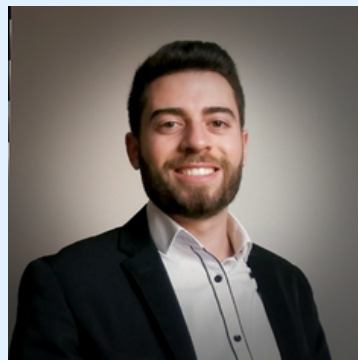
| Time | Topic |
|---------------|---------------------|
| 00:00 – 00:05 | Welcome |
| 00:05 – 00:20 | Introduction |
| 00:20 – 00:50 | Definitions |
| 00:50 – 01:20 | Health Effects |
| 01:20 – 01:50 | Break |
| 01:50 – 03:00 | Exposure assessment |
| 03:00 – 03:30 | Case study |

Presenters, affiliations, and biography *



Martine Chouvet – ITGA

Martine has a degree in chemical engineering and is the Technical Director of ITGA. She participates in several standardisation committees at French and European level on Industrial Hygiene and Nanotechnologies. She manages the development of the Particlever sensor, dedicated to the sampling of nanoparticles in the framework of a collaboration contract with the CEA (Atomic Energy Center). Martine has accompanied several industrial groups in the evaluation of risks and the management of workers' exposure to these chemical agents.



Laurent Fenouil – ITGA Australia

Laurent Fenouil is the Regional Manager for ITGA Group in Australia, where his primary role involves developing and communicating the capabilities of electron microscopy analysis, specifically applied to building contaminants and airborne hazards, with a focus on asbestos and nanoparticles characterization. With a scientific background, including a dual MBA and a M. Eng. in electronics, Laurent's diverse experiences position him to adeptly tackle the complexities of the OHS industry.