

BEST PRACTICES EFFECTIVENESS, PREVENTION AND PROTECTION MEASURES FOR CONTROL OF RISK POSED BY NANOMATERIALS

OBJECTIVE

The main objective of the project is to define proven Risk Management Measures (RMMs) to prevent or minimize exposure to engineered nanomaterials (ENMs) during the specific workplace situations of the polymer nanocomposite industry. Furthermore it will also support standardization and certification activities by providing information on the adequacy of Personal Protective Equipment (PPE) and Engineering Controls (ECs) against ENMs. This will result in:

- Minimization of environmental, health and safety (EHS) risks from exposure to engineered nanomaterials (ENMs).
- Enrichment of knowledge and understanding on the risks associated with the release of ENMs to the environment by the polymer nanocomposite industry.
- Identification of the most appropriate prevention and protection measures.



EXPECTED RESULTS

- The project will gather new information on the release rates of ENMs to air, water, wastewater and oil during their production, use and disposal.
- A set of standardized testing protocols based on the application of a newly designed nanoaerosols test chamber to support the quantitative evaluation of the effectiveness of the workplace controls.
- Identification of the most appropriate Risk Management Measures (RMM) for controlling exposure to ENMs. The results will provide valuable data for determining whether a particular RMM is suitable, effective and feasible for a specific exposure scenario.
- Improvement of the quality of Chemical Safety Assessments for nanomaterials.



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