



1st Stakeholder Workshop of the BMBF-project InnoMat.Life

Tuesday, June 15th 2021

Innovative and complex materials: Towards grouping to support hazard and risk assessment

Nanosafety research so far mainly investigated simple nanomaterials while materials on the market often cover broad size distributions (nm to μ m), they show a variety of different morphologies and may be composed of different substances. It remains unclear to which extent existing methods and knowledge can be applied to these complex material types.

The BMBF-funded project InnoMat.Life ("Innovative materials and new production processes: Safety along the life cycle and in industrial value chains", www.innomatlife.de) addresses this challenge and investigates three additional material classes: (1) polydisperse materials for industrial applications such as metals or polymer powders for additive manufacturing, (2) materials with other and potentially critical morphologies such as rods, plates or fibres and (3) hybrid materials of mixed chemical composition. The project assesses exposure and hazards for humans and the environment and considers the whole life cycle.

InnoMat.Life aims to support regulators, industry and decision makers by providing suitable methods to conduct hazard and risk assessment of these innovative and complex material types with a special emphasis on establishing criteria and similarity concepts to perform grouping. To achieve this the project combines expertise from academia, agencies and industry.

This workshop is addressed to stakeholders from policy, science, industry and NGOs who are dealing with regulatory implications of innovative materials in the context of chemical safety. InnoMat.Life will present the interim results of the project to seek stakeholder's input for the last project year.

Please note, that the workshop is organized back-to-back with the 3rd Thematic Conference on Advanced Materials being organized by UBA and Ökopol on June 14th 2021.

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Agenda

10:00	Opening of the meeting, tbc
10:15	Introduction and Overview of the InnoMat.Life Project
	Andrea Haase, BfR

Session	1: Fibre Pillar (Human Health)		
10:30	The extended InnoMat.Life Fibre Risk Banding Scheme	Dirk Brossell, BAuA	
10:50	Towards appropriate test methods		
	Fibre dispersions and optimal dosimetry	Dirk Brossell, BAuA	
	Toxicity Testing in vitro: Moving from submersed to Air	Martin Wiemann, IBE	
	Liquid Exposure		
	Screening for Fibre Transformation with two draft OECD	Wendel Wohlleben,	
	protocols	BASF	
11:30	Overall Interactive Discussion		
12:30	Lunch Break (45 min)		
Session	2: Polymer Pillar (Human Health)		
13:15	Towards Grouping Approaches for Polymer Particles	Wendel Wohlleben, BASF	
13:35	Towards appropriate test methods		
	Adsorption of Persistent Organic Pollutants (POPs) to	Alexander Roloff, BfR	
	polymer particles		
	Ageing of primary particles, fragmentation to secondary	Patrizia Pohl, BASF	
	structures by adapted ISO protocols		
	Measuring emissions at 3D printing facilities	Burkhard Stahlmecke, IUTA	
14:15	Overall Interactive Discussion		
15:15	Coffee Break (15 min)		
Session	3: Grouping for Environmental Effects		
15:30	Towards a Grouping Scheme for Environmental Effects	Kerstin Hund-Rinke, IME	
15:45	Outcomes in algea for fibres, polymers and other	Kerstin Hund-Rinke, IME	
16:00	Outcomes in daphnia for fibres, polymers and other	Dana Kühnel, UFZ	
16:15	Conclusions for the Grouping Scheme	Dana Kühnel, UFZ	
16:30	Overall Interactive Discussion		
Session	14: Outlook on materials with complex compositions an	d morphologies	
17:30	How to approach materials with complex compositions and morphologies?		
	(1-2 teaser presentations, each 5 min, followed by discussion)		
18:00	Conclusions and End of Workshop		
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The workshop will take place at the German Federal Institute for Risk Assessment (BfR), Max-Dohrn-Strasse 8-10, Berlin, Germany (<u>www.bfr.bund.de</u>), if the pandemic situation allows for that. Online participation will be possible.

Link for Registration: www.bfr-akademie.de/english/innomat-life.html















