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INFLAME kick-off meeting – ESR 3

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Environmental Risk and Health Unit
Air Quality Measurements

Determining FR emissions from treated goods

- » Test chamber experiments
- » Test chamber protocols
- » Collection – detection – identification
- » Assessment of emission factors from various sources

Determining FR emissions from treated goods

» Test chamber experiments



Determining FR emissions from treated goods

» Test chamber protocols

Building materials

Floor coverage, ...e.g. AgBB

Loading factor, test conditions

Consumer products

cleaning agents, personal care, air fresheners, ...

Use scenario's, use conditions

Treated goods

consumer electronics, fabrics, ...

Loading factor?

Use scenario's?



www.vito.be/ephect

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EN 13419, ASTM D5116, ISO 16000-9, ISO 16000-10, ISO 16000-11

Determining FR emissions from treated goods

» Collection – Detection – Identification

- » RF of interest
- » PDMS-tenax - TD100 GC-MS
- » PUF - soxhlet extraction
- » Mini Moudi (0.01 μ m – 10 μ m, 2LPM)



Determining FR emissions from treated goods

- » **Assessment of emission factors from various sources**
- » suitable test protocol (incl. test conditions)
- » suitable test conditions
- » suitable sampling and speciation ↔ UB (HBCD)
- » various sources → modelling indoor emissions (ESR 4)
 - indoor contribution to outdoor (ESR 5)
 - ↔ horizontal scanning for FR (ESR 1)

Determining FR emissions from treated goods

- » **Administrative aspects**
- » Search for a PhD candidate
 - » Euraxess call
 - » Candidates first evaluation
 - » Candidates second evaluation (research plan)
 - » Candidates third evaluation (interview)
- » Search for a promotor (from university of Antwerp or other)?
 - » ...