

Green Deal Call National Online Info Event

Farm-to-Fork & Zero-Pollution

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Area 8: a zero-pollution ambition for a toxic-free environment



A “pollution-free environment” by 2050

Context

PMT : persistent mobile and toxic

PM : persistent and toxic

vPvM : very persistent and very mobile

NORMAN
Network of reference laboratories, research centres and related organisations for monitoring of emerging environmental substances

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Persistent, Mobile and Toxic (PMT) Substances: A challenge for analytical chemistry and water quality control

21-22 January 2020, Leipzig, Germany

norman | **HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH - UFZ** | **KWR** | **Umwelt Bundesamt**

Persistent and (very polar) mobile substances (PM substances) are a potential threat to water quality. Neither biodegradation nor sorption removes such compounds from water. This is a scientific development in order to improve our abilities to evaluate the significance of PM (PMT) substances for water quality, wastewater reuse and drinking water supply. We cordially treatment and control from national and EU level to share their knowledge on PM(T) substances, elaborate how to close knowledge gaps and how the load of PM(T) substances can be reduced.

The proposed workshop wants to foster the scientific development in order to improve our abilities to evaluate the significance of PM (PMT) substances for water quality, wastewater reuse and drinking water supply.

Topics of Interest:

- Recent analytical developments and unexplored options for highly polar compounds
- Ongoing monitoring and screening activities for PM compounds
- Toxicity and ecotoxicity of PM compounds
- Assessment of persistence, mobility and precursors of PM substances
- Consequences for (waste) water treatment and wastewater reuse

Workshop programme
More information [here](#)

COMMENTARY

Open Access



Persistent, mobile and toxic substances in the environment: a spotlight on current research and regulatory activities

Heinz Rüdel^{1*}, Wolfgang Körner², Thomas Letzel³, Michael Neumann⁴, Karsten Nödler⁵ and Thorsten Reemtsma^{6,7}

<https://link.springer.com/content/pdf/10.1186/s12302-019-0286-x.pdf>

https://www.umweltbundesamt.de/sites/default/files/medien/1410/publikationen/2019-11-29_texte_126-2019_reach-pmt.pdf

TEXTE 126/2019

Environmental Research of the
Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

Project No. (FKZ) 3716 67 416 0
Report No. FB000142/ENG

REACH: Improvement of guidance and methods for the identification and assessment of PMT/vPvM substances

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LC-GD-8-1-2020: Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals

- Type of Action: Research and Innovation Action (RIA)
- Very persistent and mobile chemicals
- Budget: 8–12 Mio € / project, 40 Mio € total
- Deadline: End of January 2021

Targeted Impact

- Better understanding of a persistent pollution problem



Targeted Impact

- Remediation and detection technologies
- Data for risk assessment

Proposed Activities

- Remediation technologies of contaminated soil and water
- New methods to measure chemicals in different media

Proposed Activities

- Environmental and human (bio)monitoring of persistent and mobile substances

Proposed Activities

- Gather toxicity and toxico–kinetic information
- Develop best practices for the management of waste

References

- Circular Economy Action Plan
- Chemicals –strategy for sustainability (toxic-free EU environment)
- Emerging chemical risks in Europe —‘PFAS’
- Risks to human health related to the presence of perfluoroalkyl substances in food

LC-GD-8-2-2020: Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from science to evidence-based policies

- Type of Action: Research and Innovation Action (RIA)
- Industrial chemicals and pharmaceuticals
- Budget: 4–6 Mio € / project, 20 Mio € total
- Deadline: End of January 2021

Targeted Impact

- Identification of mixtures
- solutions to reduce the most critical exposures

Targeted Impact

- More targeted and innovative risk assessment of mixtures of chemicals and pharmaceuticals

Proposed Activities

- Solutions to quantify and prevent the most harmful co-exposures
- Solutions for the establishment of causality between co-exposures and effects

Proposed Activities

- Targeted and non-targeted high-throughput technologies for screening, and advanced bioinformatics approaches
- Identification of lead components in mixtures

References

- Chemicals –strategy for sustainability (toxic-free EU environment)
- Commission Communication on the EU strategic approach to pharmaceuticals in the environment

Grant conditions

- All monitoring data resulting from the projects data must be shared via Information Platform for Chemical Monitoring [IPCHEM](#)
- For human biomonitoring activities procedures and the network of reference laboratories established by [HBM4EU](#) should be used
- Dissemination obligations: contribute to the networking and experience sharing activities

Take home message

- Read carefully the topic text once it is published on the F&T portal
- Contact Euresearch for questions and help

Questions

