

Kiertotalous kemikaaliturvallisuuden näkökulmasta

SYKE:n seminaari

24.11.2016

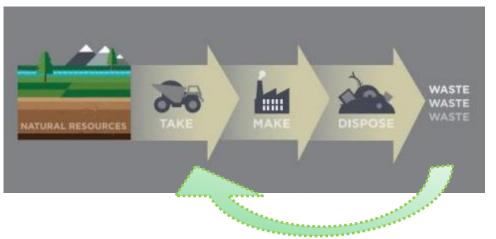
Jukka Malm





Linear economy vs. circular economy







Product design, durability reuse, repair



Avoid solutions becoming problems

DecaBDE





Lead





Wood preservatives

PFOS/PFOA





THE IRISH TIMES

Tue, Nov 22, 2016





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EU considering health issues of rubber in artificial pitches

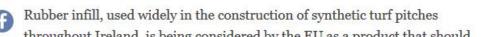
Claims that rubber infill in synthetic pitches has toxic material that causes cancer

O Mon, Feb 22, 2016, 01:00

Johnny Watterson



The Health and Safety Authority in Ireland is aware of what has become a polarising debate around claims and counter-claims that the rubber crumb is hazardous





Second Captains

Barney Ronay on the very un-British rise of Andy Murray to world number 1

Most Read in Sport

- Gerry Thornley: Time to address stampeding elephant in rugby room
- Joe Schmidt to learn player availability over next 48 hours
- Jamie Heaslip shrugs off Kiwis' barrage and braces for Wallabies clash
- PSG's Serge Aurier denied access to Britain for Arsenal clash
- Weary Aussies on upward curve ahead of Ireland game

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REACH Regulation

- Principles, processes, achievements













Principles of REACH

- Industry responsible for safe manufacture and use
- Deal with the 'burden of the past' with a systemic program for registration of 'old' chemicals
- Get adequate information on hazards while minimising the use of experimental animals and the costs
- Promote substitution of hazardous substances with safer alternatives
- Authorities will focus on substances of highest concern





REACH and CLP – main processes and actors



Registration Self-classification

Facilitated by ECHA, industry gathers information and ensures management of risks



Member States

Evaluation

- Dossier evaluation
- Substance evaluation

ECHA and MSCAs control and request further info



Authorisation
Restriction
Harmonised C&L

Commission, with support of ECHA and MSCAs, applies community wide risk management measures



Risk management: authorisation

- Substances of very high concern (SVHCs): CMRs, PBT/vPvB or 'equivalent concern'
- Identification of substance in two steps:
 - Inclusion on the 'Candidate List' by ECHA
 - Some transferred on the 'Authorisation List' (Annex XIV of REACH) by Commission
- Once on the Authorisation List, the substance can only be marketed or used after 'sunset date' if authorised by the European Commission.
 - COM decides based on an ECHA opinion





Substances in Articles

- Registration information also covers incorporation of a substance into articles
- Notification to ECHA if articles contain
 - Substances on the Candidate List (SVHCs)

- Only 359 notifications for 38 Candidate List substances (total 169)!
- 'Chemical risk' most reported RAPEX alert in 2015





ECHA Do we know more on chemicals?



echa.europa.eu

and effects of chemicals

REACH links with

Sustainable Chemistry and

Circular Economy













Commission Action Plan Circular economy & chemicals

Analysis and policy options (2017)

- to address the interface between chemicals, products and waste legislation,
- including how to reduce the presence and improve the tracking of chemicals of concern in products

Strategy on plastics in the circular economy (2017)



Sustainable chemistry

- Active use of REACH data in innovation and product design
 - Know your chemicals portfolio
 - Know and manage the risks, throughout the life-cycle
 - Integrate safety into your R&D
- Be proactive, not reactive
 - Is my substance on an list?
 - Do the properties of my substance trigger listing?
 - Avoid regrettable substitution
 - ✓ Know the properties & risks of your substitute





REACH in support of circular economy

- Sustainable use of secondary raw materials and bio-based materials
 - Via REACH chemical hazards and risks should be known
 - Ensure recyclability of materials/products
 - Minimise the circulation of SVHCs in the society
 - Carrots: proactive use of REACH data by companies
 - Sticks: use of restrictions and authorisation
- Tracing and tracking hazardous substances in products/articles
 - And informing consumers
- Contributions to other policy instruments
 - E.g. Ecodesign, Green Public Procurement

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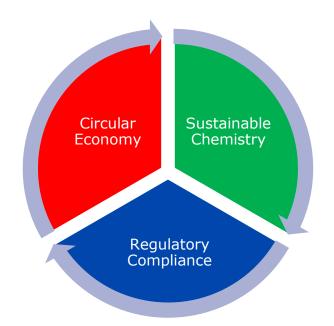


Many open questions, e.g.:

- How to track and trace substances in materials and products?
- How to assess the exposure from waste, recycling, and reuse?
- How to assess whether recycling is better than elimination, especially for SVHC/POP like substances (criteria for recycability)?
- What incentives there are for companies to better integrate chemicals safety into their product R&D?



Conclusions



- REACH compliance and sustainable chemistry & circular economy are interlinked
- REACH investment can be capitalized to benefit these (and other) policy sectors
- Companies can integrate REACH compliance into their R&D and product design



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