Looking ahead to risk management

ENES 12, 21.11.2019
Brussels

The EU Chemicals Policy has reached a different stage


<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
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<tbody>
<tr>
<td>REACH Registration</td>
<td>Evaluation &amp; Risk Management</td>
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<tr>
<td>REACH database available</td>
<td>Chemicals Policy in a wider framework (i.e. Circular Economy, Non-Toxic Environment/ Zero Pollution)</td>
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<td>REACH data used in other EHS policies</td>
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**Key data for appropriate risk management**

**This requires preparation!!**

- Knowledge on where/how the substance is used (and thus your supply chain)
- Identification where exposure/emissions may occur
- Life-cycle knowledge to link with CE
- Complete and good quality information on hazard
This session in a nutshell...

• Introduction + Materials flow analysis for understanding the use pattern of a substance

• How does communication in the supply chain change when regulatory risk management is emerging?

• Panel discussion: What is more efficient: Wait and see or getting prepared in advance; what are the early warnings?

Material flow analysis

• For identifying and quantifying e.g. metal emissions, key to know where and how much of the metals are produced or used. This is obtained by making a (metals) Material Flow Analysis

• Analytical method to quantify the amounts, mass flows and stocks of materials or substances in a well-defined system, e.g. of a metal through the different stages of its life cycle:

  - Ore mining
  - Metal refining
  - Industrial use
  - Use in products
  - End of life
  - Waste
Notes: (1) Me refers to the metal substance analysed; (2) Me Compound stands for the Me compound analysed (e.g. Me oxide, Me chloride, Me sulfite); (3) smelter process is given as a typical example of metal production; (4) REACH registration dossiers that do not cover professional/consumer uses, typically report the uses advised against.
Example: substance zinc /uses: galvanisers

Zinc → X% of total tonnage

Use: galvanising

Process A (contains Pb) → Process B

Drosses → WASTE

Zinc Oxide

ZnO with Pb → ZnO pure

Tyres → Frits

Agriculture

Example: substance zinc /uses: galvanisers + RMM + emissions environment (EE)

Zinc → X% of total tonnage

Use: galvanising

Process A (contains Pb) → Process B

Drosses → WASTE

Zinc Oxide

ZnO with Pb → ZnO pure

Tyres → Frits

Agriculture

Rubber filling

Cement Kilns

EF

EF

EE

EE

EE

EE

EE

85%

15% road run-off