EuPC/EuMBC Use Map Package

Progress Report

Patrick de Kort – 3 May 2017
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  - Use Map
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Historical Perspective

- Plastics Industry has since 2009 worked together in the Plastics Exposure Scenario Team (PEST), an initiative that encompassed the entire value chain to facilitate REACH implementation
  - Developed Generic Exposure Scenarios
  - Developed the Plastics Exposure Scenario Tool (PESTOOL)
Use Map Package

- A “Use Map Package” consists of:
  - Use Map
  - Specific Environmental Release Categories (SpERC)
  - Specific Worker Exposure Description (SWED)
- Templates (Excel/Chesar) were created for all 3 Components in the context of the Exchange Network for Exposure Sciences
- EuPC tried to use these templates and hereby reports the findings
Use Map

- PEST Generic Exposure Scenarios used by Masterbatchers/Compounders and Converts were relatively easily translated into a Use Map
## Use Map: Masterbatchers and Compounders

<table>
<thead>
<tr>
<th>Life Cycle Stage</th>
<th>Use Name</th>
<th>Contributing Scenario</th>
<th>Use Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formulation</td>
<td>Production of Masterbatches and/or Compounds</td>
<td>Production of Masterbatches and/or Compounds</td>
<td>ERC 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handling of Small Containers</td>
<td>PROC 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handling Large Containers</td>
<td>PROC 8b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Continuous Compounding Process</td>
<td>PROC 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Batch Compounding Process</td>
<td>PROC 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Extrusion, Pelletisation, and/or Granulation</td>
<td>PROC 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Scrap Recycling</td>
<td>PROC 24</td>
</tr>
</tbody>
</table>
## Use Map: Converters

<table>
<thead>
<tr>
<th>Life Cycle Stage</th>
<th>Use Name</th>
<th>Contributing Scenario</th>
<th>Use Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Use</td>
<td>Production of Plastic Articles</td>
<td>Production of Plastic Articles</td>
<td>ERC 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handling of Small Containers</td>
<td>PROC 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handling Large Containers</td>
<td>PROC 8b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use in a Closed and/or Semi-Open Converting Process (e.g. Extrusion, Injection)</td>
<td>PROC 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use in an Open Converting Process (e.g. Calendering)</td>
<td>PROC 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use in Roll and/or Spread Coating</td>
<td>PROC 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use in a Foaming Production</td>
<td>PROC 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use in Dip Coating</td>
<td>PROC 13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Scrap Recycling</td>
<td>PROC 24</td>
</tr>
</tbody>
</table>
SpERC

- For Plastic Additives an OECD Emission Scenario Document exists, which specifies the release fraction per additive type. This information was combined to produce a SpERC. Process was somewhat labour intensive but not overly complex.
- Other parameters still need to be included, but should be in PEST archives
The current SWED template forces you to fix per contributing scenario in the Use Map all risk management measures except:
- Concentration
- Eye Protection

Other sectors have adapted to this by setting many different contributing scenarios with different risk management measure levels
- Which makes sense for big formulators supplying many SME professional/consumer mixtures as the big formulators can the convert the complex exposure scenario to a simple SUMI → less complexity for group of users with limited REACH capacity
SWED

- Plastics Industry does not supply mixtures to professionals/consumers
- As operational conditions are highly heterogeneous → use of the SWED template would explode the size of the Use Map → longer exposure scenarios → more complexity not less
- EuPC/EuMBC have decided to develop guidance for registrants on how we would like them to do their worker safety assessment
Guidance for Worker Safety Assessment

- Contains information on:
  - Maximum loading levels per additive type
  - Processing conditions
  - Desired order of risk management measures

- Total length of guidance = 5 pages
Validation

- A few registrants have reviewed the Chesar input files (Use Map&SpERC) and the guidance document and were appreciative of the simplification.
  - Simplicity → less work
  - Simplicity → better assignment of tonnages
- EuPC/EuMBC Experts are reviewing the guidance document and initial responses are positive
- Document is to be send to different stakeholders (e.g. PlasticsEurope, Cefic Sector Groups) for comments
Discussion Point

- In our experience the SWED template is not ideal for our sector. Although changing it to not force all the fields to be fixed would be detrimental for other sectors that wish to have SUMIs.
  - Do other sectors share this sentiment?