How Compounds May Reach Water

- Cleaning of manufacturing equipment, especially WB coatings
- Cleaning of brushes and rollers after application of WB paints
- Cleaning of spray-guns / coagulation of WB coating residues (widely replaced by spray-gun inlets)
- Collection of overspray by means of wet scrubber
- Withdrawal of ultrafiltrate / anolyte from electrocoat tanks
- Wet collection of sanding dust (non-volatile compounds only)
- Wet sanding (rare cases, release as waste rather than via water)
- Hot steam desorption of adsorbers (rarely used)
- Only optional releases to a waste-water stream
- No one-by-one relation between SWEDs and SPERCs
### SPERC Overlap between Sectors

<table>
<thead>
<tr>
<th>Use</th>
<th>Formulation</th>
<th>Professional use of coatings</th>
<th>Consumer use of coatings</th>
<th>Industrial use of coatings</th>
<th>Industrial use of coatings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AISE, ATIEL, CEPE, Cosmetics Europe, EFCC, FEICA, IFRA (SB, WB, PW)</td>
<td>CEPE 8a/c/d/f.2 (roll&amp;brush)</td>
<td>CEPE 8a/c/d/f.1 (roll&amp;brush)</td>
<td>CEPE 4/5</td>
<td>ACEA 4.1 a,b,c/5.1</td>
</tr>
<tr>
<td></td>
<td>ESVOC 2.2</td>
<td>8a/c/d/f.3 (spray)</td>
<td>ESVOC 8.3.c</td>
<td>ESVOC 4.3a</td>
<td>ESVOC 4.3a</td>
</tr>
</tbody>
</table>

### Justification for Sub-SPERCs

- Definition of Sub-SPERCs may be appropriate for a differentiation of release factors with regard to volatiles/non-volatiles or with regard to a certain volatility or water solubility range if a SPERC is linked to a specific release path towards the aquatic environment (e.g. via transfer to process water) and/or to the formation of sludge for release to waste.
- Wet scrubber in CEPE and ACEA example is a process-integrated RMM to collect overspray paint droplets in order to control release of non-volatile compounds to air.
- Wet scrubber is not designed as RMM for volatiles, but absorbs volatile compounds as a side effect when rendering coagulated paint droplets into paint sludge.
How to Find the Appropriate SPERC

- Proposal of a SPERC hierarchy / logic with a kind of structured short titles
- spERC 4 Use of solvents
- spERC 4.SC Use of solvents / spray coatings
- spERC 4.DC Use of solvents / dip coatings
- spERC 4.SC.w Use of solvents / spray coatings / wet scrubber
- spERC 4.DC.u Use of solvents / dip coatings / withdrawal of ultrafiltrate

SPERC Project: Status May 2016

Aim: DU sectors to publish exposure assessment inputs by mid-2016 for use in 2018 registrations

- Factsheet and background document formats virtually final (pending workshop in May 2016)
- Existing CEPE SPERCs based on OECD ESD release factors and industry experience (e.g. cleaning operations), RF water 0.005 for manufacturing, 0.01 for cleaning/scrubber, 0.02 for outdoor spraying
- CEPE factsheets to be updated and background documents to be developed, for publication by mid 2016
- ACEA best practice documents acknowledged as reference
- Environmental SUMI to be designed (company proposal existing)