



CSR/ES Roadmap SPERC Concept (Action Area 2.4)

Thomas May, Janice Robinson
Workshop on Sector Use Maps
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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



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

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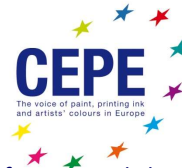
Justification for Sub-SPERCs



- 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

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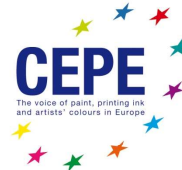
How to Find the Appropriate SPERC



- 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

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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)