

FS Section	Content field	Explanation of content
1. Title	1.1 Title of SPERC	<b>Professional application of coatings and inks by brush or roller</b>
	1.2 SPERC codes:	CEPE SPERC 8a.2a.v2 Application - professional - brush/roller - indoor use - volatiles CEPE SPERC 8c.2a.v2 Application - professional - brush/roller - indoor use – non-volatile CEPE SPERC 8d.2a.v2 Application - professional - brush/roller - outdoor use - volatiles CEPE SPERC 8f.2a.v2 Application - professional - brush/roller - outdoor use – non-volatile
2. Scope	2.1 Substance/Product Domain	
	Substance types / functions / properties included or excluded:	Included: Volatile and non-volatile compounds in liquid mixtures, solids in polymeric liquids Intended compounds not classified as carcinogenic or mutagenic, PBT or vPvB Volatile compounds rapidly degradable Water-borne mixtures may contain biocidal agents of product type 2, 6 or 7
	Additional specification of product types covered:	Liquid coatings: - solvent-borne up to 95 % volatile content, - liquid solvent-free coatings close to 100 % non-volatile content
	Inclusion of sub-SPERCs: y/n	Yes
	2.2 Process domain	
	Description of activities/processes:	Covers the whole process* of application of organic solvent borne and water borne liquid coatings and inks by professional users by brush or roller. *Includes: Application of coatings by brush or roller Cleaning of equipment Waste management of coatings
	2.3 List of applicable UD	
	LCS:	PW: Widespread use by professional workers
SU:	Various (17, 18, 19)	
PC:	9a, 9b	
3. Operational conditions (including information on technical strategies to achieve high raw material efficiency)	3.1 Conditions of use	
	Location of use:	Indoor (CEPE SPERC 8a.2a.v2, CEPE SPERC 8c.2a.v2) outdoor (CEPE SPERC 8d.2a.v2, CEPE SPERC 8f.2a.v2)
	Water contact during use: y/n	Y
	Connected to a standard municipal biological STP: y/n	Y
	Rigorously contained system with minimisation of release to the environment: y/n	N
	Further operational conditions impacting on releases to the environment.	
	3.2 Waste Handling and Disposal	

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	<b>Waste Handling and Disposal:</b>	Waste water from equipment cleaning discharged to standard municipal sewage treatment plant Process waste may be recycled or incinerated by local authority or waste disposal company	
4. Obligatory RMMs onsite	<b>RMM limiting release to air:</b>	None	
	<b>RMM Efficiency (air):</b> numerical value	Not applicable	
	<b>Reference for RMM Efficiency (air):</b>	Not applicable	
	<b>RMM limiting release to water:</b>	Not applicable	
	<b>RMM Efficiency (water):</b> numerical value	Not applicable	
	<b>Reference for RMM Efficiency (water):</b>	Not applicable	
	<b>RMM limiting release to soil:</b>	Not applicable	
	<b>RMM Efficiency (soil):</b> numerical value	Not applicable	
5. Exposure Assessment Input	<b>5.1 Substance use rate</b>		
	<b>Amount of substance use per day:</b> numerical value	<b>Typical maximum</b> daily usage, for <b>any one substance</b> , based on sector knowledge 25 kg product/day at any one location	
		<b>Substance function</b>	<b>Max daily substance use rate</b> in kg/d
		Pigment/extender/filler	2.5
		Binder	2.5
		Water	8.25
		Organic solvent/coalescent Additives	11.0 0.13
	<b>Fraction of EU tonnage used in region:</b> numerical value	Not available	
	<b>Fraction of Regional tonnage used locally:</b> numerical value	Not available	
	<b>Justification / information source:</b>	Not available	
	<b>5.2 Days emitting</b>		
	<b>Number of emission days per year:</b> numerical value	Dispersive use Continuous release: 365 d/y	
	<b>Justification / information source:</b>	Expert knowledge	
	<b>5.3 Release factors</b>		
	<b>SPERC identifier:</b>	CEPE SPERC 8a.2a.v2	
	<b>ERC:</b>	8a	
	<b>sub-SPERC applicability:</b>	Application - professional – brush/roller - indoor use - volatiles	
	<b>5.3.1 Release Factor – air</b>		
	<b>Numeric value / percent of input amount (Air):</b> numerical value	98%	
	<b>Justification of RFs (Air):</b>	For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere.  OECD ESD	
<b>5.3.2 Release Factor – water</b>			
<b>Numeric value / percent of input amount (Water):</b> numerical value	0		
<b>Justification of RFs (Water):</b>	Professional applicators tend not to wash equipment.  ESD (Fig 4.2)		

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	<b>5.3.3 Release Factor – soil</b>	
	<b>Numeric value / percent of input amount (Soil):</b> numerical value	0.00
	<b>Justification of RFs (Soil):</b>	There is no deposition to soil from indoor application processes. OECD ESD
	<b>5.3.4 Release Factor – waste</b>	
	<b>Percent of input amount disposed as waste:</b> numerical range	2%
	<b>Justification of RFs:</b>	ESD (Fig 4.2)
	<b>SPERC identifier:</b>	CEPE SPERC 8c.2a.v2
	<b>ERC:</b>	8c
	<b>sub-SPERC applicability:</b>	Application - professional - brush/roller - indoor use – non-volatiles
	<b>5.3.1 Release Factor – air</b>	
	<b>Numeric value / percent of input amount (Air):</b> numerical value	0.00
	<b>Justification of RFs (Air):</b>	The solid phase is not emitted to air.
	<b>5.3.2 Release Factor – water</b>	
	<b>Numeric value / percent of input amount (Water):</b> numerical value	0
	<b>Justification of RFs (Water):</b>	Professional applicators tend not to wash equipment. ESD (Fig 4.2)
	<b>5.3.3 Release Factor – soil</b>	
	<b>Numeric value / percent of input amount (Soil):</b> numerical value	0.00
	<b>Justification of RFs (Soil):</b>	There is no deposition to soil from indoor application processes. OECD ESD
	<b>5.3.4 Release Factor – waste</b>	
	<b>Percent of input amount disposed as waste:</b> numerical range	4%
	<b>Justification of RFs:</b>	ESD (Fig 4.2)
	<b>SPERC identifier:</b>	CEPE SPERC 8d.2a.v2
	<b>ERC:</b>	8d
	<b>sub-SPERC applicability:</b>	Application - professional - brush/roller - outdoor use – volatiles
	<b>5.3.1 Release Factor – air</b>	
	<b>Numeric value / percent of input amount (Air):</b> numerical value	97.5
	<b>Justification of RFs (Air):</b>	For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere.
	<b>5.3.2 Release Factor – water</b>	
	<b>Numeric value / percent of input amount (Water):</b> numerical value	0

CEPE SpERC Fact Sheet: professional brushing or rolling of coatings

Ref: CEPE SpERC 8.2

Date: Dec 2020

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	<b>Justification of RFs (Water):</b>	Professional applicators tend not to wash equipment. ESD (Fig 4.2)
	<b>5.3.3 Release Factor – soil</b>	
	<b>Numeric value / percent of input amount (Soil): numerical value</b>	0.5%
	<b>Justification of RFs (Soil):</b>	During application of coatings outdoors, a proportion of the applied coating (solid phase) can be deposited on the soil below the area being painted. No OECD ESD – industry data
	<b>5.3.4 Release Factor – waste</b>	
	<b>Percent of input amount disposed as waste: numerical range</b>	2%
	<b>Justification of RFs:</b>	ESD (Fig 4.2)
	<b>SPERC identifier:</b>	CEPE SPERC 8f.2a.v2
	<b>ERC:</b>	8f
	<b>sub-SPERC applicability:</b>	Application - professional - brush/roller - outdoor use – non-volatiles
	<b>5.3.1 Release Factor – air</b>	
	<b>Numeric value / percent of input amount (Air): numerical value</b>	0.00
	<b>Justification of RFs (Air):</b>	The solid phase is not emitted to air.
	<b>5.3.2 Release Factor – water</b>	
	<b>Numeric value / percent of input amount (Water): numerical value</b>	1%
	<b>Justification of RFs (Water):</b>	There can be losses to sewers from application equipment clean-up. No OECD – industry data
	<b>5.3.3 Release Factor – soil</b>	
	<b>Numeric value / percent of input amount (Soil): numerical value</b>	0.5%
	<b>Justification of RFs (Soil):</b>	During application of coatings outdoors, a proportion of the applied coating (solid phase) can be deposited on the soil below the area being painted. No OECD ESD – industry data
	<b>5.3.4 Release Factor – waste</b>	
	<b>Percent of input amount disposed as waste: numerical range</b>	4%
	<b>Justification of RFs:</b>	ESD (Fig 4.2)