

FS Section	Content field	Explanation of content
1. Title	1.1 Title of SPERC	Professional application of coatings and inks by spraying
	1.2 SPERC codes:	CEPE SPERC 8a.3a.v2 Application - professional - spraying - indoor use - volatiles CEPE SPERC 8c.3a.v2 Application - professional - spraying - indoor use – non-volatiles CEPE SPERC 8d.3a.v2 Application - professional - spraying - outdoor use - volatiles CEPE SPERC 8f.3a.v2 Application - professional - spraying - 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 spray 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 spraying. *Includes: Application of coatings by spray 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.3a.v2, CEPE SPERC 8c.3a.v2) outdoor (CEPE SPERC 8d.3a.v2, CEPE SPERC 8f.3a.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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	Waste Handling and Disposal:	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	RMM limiting release to air:	None	
	RMM Efficiency (air): numerical value	Not applicable	
	Reference for RMM Efficiency (air):	Not applicable	
	RMM limiting release to water:	Not applicable	
	RMM Efficiency (water): numerical value	Not applicable	
	Reference for RMM Efficiency (water):	Not applicable	
	RMM limiting release to soil:	Not applicable	
	RMM Efficiency (soil): numerical value	Not applicable	
5. Exposure Assessment Input	5.1 Substance use rate		
	Amount of substance use per day: numerical value	Typical maximum daily usage, for any one substance , based on sector knowledge 100 kg product/day at any one location	
		Substance function	Max daily substance use rate in kg/d
		Pigment/extender/filler	10.0
		Binder	10.0
		Water	35.0
		Organic solvent/coalescent Additives	45.0 0.50
	Fraction of EU tonnage used in region: numerical value	Not available	
	Fraction of Regional tonnage used locally: numerical value	Not available	
	Justification / information source:	Not available	
	5.2 Days emitting		
	Number of emission days per year: numerical value	Dispersive use Continuous release: Indoor - CEPE SPERC 8a.3a.v2, CEPE SPERC 8c.3a.v2, 365 d/y Outdoor - CEPE SPERC 8d.3a.v2, CEPE SPERC 8f.3a.v2, 225 d/y	
		Justification / information source:	Expert information
	5.3 Release factors		
	SPERC identifier:	CEPE SPERC 8a.3a.v2	
ERC:	8a		
sub-SPERC applicability:	Application - professional - spraying - indoor use - volatiles		
5.3.1 Release Factor – air			
Numeric value / percent of input amount (Air): numerical value	97%		
	Justification of RFs (Air):	For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. A proportion of the solid phase will be contained in overspray. OECD ESD	
5.3.2 Release Factor – water			

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	Numeric value / percent of input amount (Water): numerical value	0.00
	Justification of RFs (Water):	There is no emission to water during application and drying OECD ESD
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0.00
	Justification of RFs (Soil):	There is no deposition to soil from indoor application processes. OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	3%
	Justification of RFs:	Based on ESD (Fig 4.2)
	SPERC identifier:	CEPE SPERC 8c.3a.v2
	ERC:	8c
	sub-SPERC applicability:	Application - professional - spraying - indoor use – non-volatiles
	5.3.1 Release Factor – air	
	Numeric value / percent of input amount (Air): numerical value	0
	Justification of RFs (Air):	Based on ESD (Fig 4.2)
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	0.00
	Justification of RFs (Water):	There is no emission to water during application and drying OECD ESD
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0.00
	Justification of RFs (Soil):	There is no deposition to soil from indoor application processes. OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	10-60%
	Justification of RFs:	Based on ESD (Fig 4.2)
	SPERC identifier:	CEPE SPERC 8d.3a.v2
	ERC:	8d
	sub-SPERC applicability:	Application - professional - spraying - outdoor use – volatiles
	5.3.1 Release Factor – air	
	Numeric value / percent of input amount (Air): numerical value	98%

CEPE SpERC Fact Sheet: professional spraying of coatings

Ref: CEPE SpERC 8.3

Date: Dec 2020

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	Justification of RFs (Air):	A proportion of the solid phase will be contained in overspray. OECD ESD
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	2%
	Justification of RFs (Water):	During application of coatings outdoors, a proportion of the applied coating can be deposited into water No OECD – industry data
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0
	Justification of RFs (Soil):	No OECD ESD – industry data
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	0
	Justification of RFs:	Based on ESD (Fig 4.2)
	SPERC identifier:	CEPE SPERC 8f.3a.v2
	ERC:	8f
	sub-SPERC applicability:	Application - professional - spraying - outdoor use – non-volatiles
	5.3.1 Release Factor – air	
	Numeric value / percent of input amount (Air): numerical value	0
	Justification of RFs (Air):	Based on ESD (Fig 4.2)
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	2%
	Justification of RFs (Water):	During application of coatings outdoors, a proportion of the applied coating can be deposited into water No OECD – industry data
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	2%
	Justification of RFs (Soil):	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 –
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	9-30%
	Justification of RFs:	Based on ESD (Fig 4.2 & 8.1)