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	
	2.1 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	
2 Saama	Inclusion of sub-SPERCs: y/n	Yes	
2. Scope	2.2 Process domain		
	Description of activities/processes:	Covers the whole process* of application of organic solvent bome 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 UDs		
	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		

RMMs onsite Reference for RMM Efficiency (water): RMM initiating release to soil: RMM Efficiency (soil): numerical value Reference for RMM Efficiency (soil): 5.1 Substance use rate 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 45.0 solvent/coalescent Additives 0.50 Fraction of EU tonnage used in region: numerical value Not available Fraction of Rejoral tonnage used locally: numerical value Not available Substance function Max daily substance use rate in kg/d Pigment/extender/filler 10.0 Binder 10.0 Water 35.0 Organic 5.0 Water 35.0 Organic 45.0 Solvent/coalescent Additives 0.50 Not available Fraction of Rejoral tonnage used locally: numerical value Not available Substitute Not available Substitute Not available Substitute Not available Dispersive use Continuous release: Induction - CEPE SPERC 8a.3a.v2, CEPE SPERC 8c.3a.v2, 255 dly Outdoor - CEPE SPERC 8a.3a.v2, CEPE SPERC 8c.3a.v2, 255 dly Ustification / information source: Salesse factors SPERC identifier: CEPE SPERC 8a.3a.v2 ERC: 8a Sub-SPERC applicability: Salesse Factor - air Numeric value / percent of input amount (Air): numerical value 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	FS Section	Content field	Explanation of content		
Waste Handling and Disposal: Process waste may be recycled of incinerated by local authority or waste disposal company Process waste may be recycled of incinerated by local authority or waste disposal company Process waste may be recycled of incinerated by local authority or waste disposal company RMM Efficiency (art): RMM Efficiency (art): RMM Efficiency (water): RMM Efficiency (water): RMM Imiting release to water: RMM Efficiency (water): RMM Efficiency (w					
RMM Efficiency (air): numerical value Reference for RMM Efficiency (air): Not applicable Reference for RMM Efficiency (air): Not applicable RMM Efficiency (water): numerical value Reference for RMM Efficiency (soil): Not applicable RMM Efficiency (soil): Not applicable RMM Efficiency (soil): Not applicable Reference for RMM Efficiency (soil): Not applicable S.1. Substance use rate Typical maximum daily usage, for any one substance, based on sector knowledge 100 kg product/day at any one location Pigment/extender/filler Substance function Pigment/extender/filler 10.0 Substance use per day:		Waste Handling and Disposal:	treatment plant Process waste may be recycled or		
RMM Efficiency (air): numerical value Reference for RMM Efficiency (air): Not applicable Reference for RMM Efficiency (air): Not applicable RMM Efficiency (water): numerical value Reference for RMM Efficiency (soil): Not applicable RMM Efficiency (soil): Not applicable RMM Efficiency (soil): Not applicable Reference for RMM Efficiency (soil): Not applicable S.1. Substance use rate Typical maximum daily usage, for any one substance, based on sector knowledge 100 kg product/day at any one location Pigment/extender/filler Substance function Pigment/extender/filler 10.0 Substance use per day:		DMM limiting valence to six	None		
Reference for RMM Efficiency (afric.) A. Obligatory RMMs onsite RMM Efficiency (water): numerical value Reference for RMM Efficiency (soli): Not applicable Reference for RMM Efficiency (soli): Not applicable RMM Efficiency (soli): numerical value Reference for RMM Efficiency (soli): Not applicable Reference for RMM Efficienc					
RMM initing release to water: RMM Efficiency water: numerical value Reference for RMM Efficiency (soil): RMM initing release to soit: RMM initing release to RMM initing release: RMM initing release to soit: RMM initing release to RMM initing release: RMM initing release to soit: Radiana description in initing release to soit: Radiana description in initing release to soit: Radiana description in initing release to release to a soit and a s					
RIMMs onsite Reference for RIMM Efficiency (vester): RIMM Efficiency (soil): numerical value Reference for RIMM Efficiency (soil): Not applicable Reference for RIMM Efficiency (soil): Not applicable Reference for RIMM Efficiency (soil): Not applicable S.1 Substance use rate	4. Obligatory RMMs onsite	RMM limiting release to water:	Not applicable		
Water St. Substance use rate in kg/d		value	Not applicable		
RMM Efficiency (soil): numerical value Reference for RMM Efficiency (soil): 5.1 Substance use rate Typical maximum daily usage, for any one substance, based on sector knowledge 100 kg product/day at any one location Substance use rate in kg/d Pigment/extender/filler 10.0 Binder 10.0 Water 35.0 Organic 45.0 Solvent/coalescent 45.0 Solven		(water):			
S.1 Substance use rate Typical maximum daily usage, for any one substance, based on sector knowledge 100 kg product/day at any one location			1		
Typical maximum daily usage, for any one substance, based on sector knowledge 100 kg product/day at any one location			1		
Amount of substance use per day: numerical value Amount of Substance use per day: numerical value Amount of Substance use per day: numerical value Fraction of EU tonnage used in region: numerical value Fraction of Rumerical value Not available Fraction of Rumerical value Fraction of Rumerical value Not available Fraction of Rumerical value Fraction of Rumerical value Fraction of Rumerical value Fraction of Rumerical value Not available Fraction of Rumerical value Not available S. Days emitting 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 8c.3a.v2, 255 d/y Justification / information source: S. Release factors SPERC identifier: CEPE SPERC 8a.3a.v2 ERC: 8a Application - professional - spraying - indoor use - volatiles For a coating film to form, the volatile phase of organic solvent bome and water bome coatings must evaporate into the atmosphere. A proportion of the solid phase will be contained in overspray. OECD ESD			14οι αρριισαδίο		
region: numerical value Fraction of Regional tonnage used locally: numerical value Justification / information source: 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: ERC: 8a Application - professional - spraying - indoor use - volatiles S.3.1 Release Factor - air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD			sector knowledge 100 kg product/day at any Substance function Pigment/extender/filler Binder Water Organic solvent/coalescent	one location Max daily substance use rate in kg/d 10.0 10.0 35.0 45.0	
Justification / information source: 5.2 Days emitting 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: 5.3 Release factors SPERC identifier: ERC: sub-SPERC applicability: 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		region: numerical value Fraction of Regional tonnage used			
5. Exposure Assessment Input Number of emission days per year: numerical value 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 Expert information 5.3 Release factors SPERC identifier: ERC: Sub-SPERC applicability: 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray: OECD ESD			Not available		
Assessment Input Number of emission days per year: numerical value 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: ERC: sub-SPERC applicability: 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD			110(010110010		
5.3 Release factors SPERC identifier: CEPE SPERC 8a.3a.v2 ERC: 8a Application - professional - spraying - indoor use - volatiles 5.3.1 Release Factor - air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD	Assessment		Continuous release: Indoor - CEPE SPERC 8a.3a.v2, CEPE SPERC 8c.3a.v2, 365 d/y		
SPERC identifier: ERC: 8a Application - professional - spraying - indoor use - volatiles 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		Justification / information source:	Expert information		
ERC: sub-SPERC applicability: 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		5.3 Release factors			
sub-SPERC applicability: 5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		SPERC identifier:	CEPE SPERC 8a.3a.v2		
5.3.1 Release Factor – air Numeric value / percent of input amount (Air): numerical value 97% For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere. Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		ERC:	8a		
Numeric value / percent of input amount (Air): numerical value 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		sub-SPERC applicability:	Application - professional - spraying - indoor use - volatiles		
Justification of RFs (Air): A proportion of the solid phase will be contained in overspray. OECD ESD		Numeric value / percent of input			
		Justification of RFs (Air):	A proportion of the solid phase will be contained in overspray.		
		5.3.2 Release Factor – water	OECD ESD		

FS Section	Content field	Explanation of content
	Numeric value / percent of input	0.00
	amount (Water): numerical value	There is no emission to water during application and drying
	Justification of RFs (Water):	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
	5.3.3 Release Factor – soil	OECD ESD
	Numeric value / percent of input amount (Soil): numerical value	0.00
	and an (con). Harmonical value	There is no deposition to soil from indoor application processes.
	Justification of RFs (Soil):	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%

FS Section	Content field	Explanation of content
	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
	5.3.3 Release Factor – soil	No OECD – industry data
		0
	Numeric value / percent of input amount (Soil): numerical value	
	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)