FS Section	Content field	Explanation of content	
1. Title	1.1 Title of SPERC	Formulation of powder coatings	
	1.2 SPERC codes:	CEPE SPERC 2.3a.v2 Formulation of powder coatings and inks – non volatiles	
	2.1 Substance/Product Domain		
	Substance types / functions / properties included or excluded:	Includes: Particulates Non-volatiles	
	Additional specification of product types covered:		
	Inclusion of sub-SPERCs: y/n	No	
2. Scope	2.2 Process domain		
	Description of activities/processes:	Covers the whole process of formulation/manufacture of powder coatings.	
	2.3 List of applicable UDs		
	LCS:	F (Formulation or re-packing)	
	SU:	n/a	
	PC:	9a	
	3.1 Conditions of use		
	Location of use:	Indoor	
	Water contact during use: y/n	Y	
3. Operational conditions	Connected to a standard municipal biological STP: y/n	Y	
(including information on technical	Rigorously contained system with minimisation of release to the environment: y/n	N	
strategies to achieve high raw material efficiency)	Further operational conditions impacting on releases to the environment.	Process efficiency: maximise the efficiency of use of input raw materials through the highest conversion into formulated products	
	3.2 Waste Handling and Disposal		
	Waste Handling and Disposal:	Process waste may be recycled or incinerated by waste disposal company	
	RMM limiting release to air:	Cyclone and bag filters	
4. Obligatory RMMs onsite	RMM Efficiency (air): numerical value	0.99	
	Reference for RMM Efficiency (air):	EMISSION SCENARIO DOCUMENT ON COATINGS INDUSTRY – ESD - (PAINTS, LACQUERS AND VARNISHES), OECD, July 2009 [http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=ENV/JM/MONC (2009)24&doclanguage=en] (tables 4.7 & 5.10)	
	RMM limiting release to water:	Not applicable	
	RMM Efficiency (water): numerical value	Not applicable	
	Reference for RMM Efficiency (water):	Not applicable	

CEPE SpERC Fact Sheet: Manufacture of powder coatings Ref: CEPE SpERC 2.3
Date: Dec 2020

FS Section	Content field	Explanation of conte	nt	
	RMM limiting release to soil:	Not applicable		
	RMM Efficiency (soil): numerical value	Not applicable		
	Reference for RMM Efficiency (soil):	Not applicable		
	Amount of substance use per day: numerical value	sector knowledge 101 000 kg produ Note: in many co	m daily usage, for any one substance, based on electrical control cont	
		Substance function	Daily substance use rate in kg/d	
		Pigment/extend er/filler	50 000	
		Binder	50 000	
		Water	0	
		Organic solvent/coalesc ent	0	
		Additives	1 000	
	Fraction of EU tonnage used in region: numerical value	Not relevant as not widespread use		
	Fraction of Regional tonnage used locally: numerical value	Not relevant as not widespread use		
	Justification / information source:			
	5.2 Days emitting Number of emission days per year:	Continuous relegas 205 dh		
	numerical value	Continuous release: 225 d/y		
5. Exposure Assessment	Justification / information source:	Typical industry situation (5 working days a week, shut down for vacation, no need for continuous shift)		
Input	5.3 Release factors			
	SPERC identifier:	CEPE SPERC 2.3a.v2		
	ERC:	2		
	sub-SPERC applicability:	Formulation of powder coatings and inks – non-volatiles		
	5.3.1 Release Factor – air			
	Numeric value / percent of input amount (Air): numerical value	0.08%		
	Justification of RFs (Air):	No direct dust emissions to the air are expected. Initial loss from handling of non-volatile substances is captured by air extraction devices. Emission limits from the EMISSION SCENARIO DOCUMENT ON COATINGS INDUSTRY (PAINTS, LACQUERS AND VARNISHES), OECD, July 2009 - ESD[http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=ENV/JM/MONO(2009)24&doclanguage=en]		
	5.3.2 Release Factor – water			
	Numeric value / percent of input amount (Water): numerical value	0.52%		
	Justification of RFs (Water):	Emissions via equipment cleaning and subsequent discharge to wastewater. ESD		
	5.3.3 Release Factor – soil			
	Numeric value / percent of input amount (Soil): numerical value	0.00		
	Justification of RFs (Soil):	ESD		
	5.3.4 Release Factor – waste			

CEPE SpERC Fact Sheet: Manufacture of powder coatings Ref: CEPE SpERC 2.3
Date: Dec 2020

FS Section	Content field	Explanation of content
	Percent of input amount disposed as waste: numerical range	4.7%
	Justification of RFs:	ESD

CEPE SpERC Fact Sheet: Manufacture of powder coatings Ref: CEPE SpERC 2.3
Date: Dec 2020