Section	Content				
SPERC Title		e of adh	nesives and sealants by prof	essional users and	
SPERC code					
	FEICA SPERC 8a.3.v2 - Wide dispersive Use of Solvents in Adhesives and Sealants				
	FEICA SPERC 8c.3.v2- Wide dispersive Use of Substances other than Solvents in Adhesives and Sealants				
Scope					
	Covers the application of adhesives and sealants for a wide range of purposes by consumers and by professional uses. Covers different adhesive and sealant application techniques such as brushing or rolling, spraying, dipping, extrusion from a cartridge. Indoor and outdoor uses are considered. No distinction is made between water-borne and solvent borne adhesives and sealants. As a result, the release of solvents to water from the use of solvent-borne adhesives and sealants is overestimated.				
	Outdoor uses typically are uses in construction applications. These are covered by the SPERCs authored by EFCC.				
	Substance Domain: FEICA SPERC 8a.3.v2 Solvents and volatiles which quantitatively evaporate upon curing of the adhesive/ sealants. FEICA SPERC 8c.3.v2 All substances which do not evaporate to a significant extent upon curing of the adhesive/sealants.				
Related use descriptors					
-	Main User Group: SU21, SU22				
	Sector of Use: see Main User Group				
	Environmental Release Class: ERC 8a, ERC 8c				
	Process Categories: PROC 5, PROC8a, PROC8b, PROC 9, PROC 10, PROC11, PROC 13				
	Product categories: PC 1				
Operational conditions	Operational conditions – Phrases				
	FEICA 8a.3.v2		essional and Consumer product use leading to emissional and Consumer product use leading to emission		
	FEICA 8c.3.v2		essional and Consumer Product leading to embedding tances into a matrix.		
	Operational condi	nditions - Free text background			
	FEICA 8a.3.v2	Upon curing, substances evaporate to the ambient air.			
	FEICA 8c.3.v2	Upon curing, substances are included into matrix without intended release to the environment.			
Obligatory onsite RMMs	RMM - Phrase			RMM-Efficiency (RE _{SPERC})	
	FEICA 8a.3.v2		Professional and	0	
	FEICA 8c.3.v2		Consumer product use with limited or no technical control of emission	0	

Substance use rate	Phrase				Value		
	FEICA 8a.3.v2		Fraction of EU tonnage used in region: to be assessed by registrant			None specified	
			Fraction of Regional tonnage used locally:			0.002	
	FEICA 8c.3.v2		Fraction of EU tonnage used in region: to be assessed by registrant Fraction of Regional tonnage used locally:		None specified		
					0.002		
	Justification						
	The value of the Fraction of Regional tonnage used locally is identical to the default settings of the REACH Guidance. The fraction of EU tonnage used in region is not specified in this SPERC factsheet. The respective value needs to be defined by the registrant based on his intelligence of the market of the substance.						
Days emitting	Phrase Value				ue		
	FEICA 8a.3.v2	Emissio	Emission Days (days/year):			365	
	FEICA 8c.3.v2				365		
Release factors	Values (per pathway)						
		To a	ir	To water	To soil		To waste
	FEICA 8a.3.v2	0.98	3	0.015	0		0
	FEICA 8c.3.v2	0	0 0.015 0			0	
	Justification						

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Regarding environmental emissions, the wide dispersive use use of adhesives and sealants is very similar to related wide dispersive uses of paints, lacquers and varnishes. For FEICA 8a.3.v2 (i.e. for volatiles in adhesives and sealants) the release fractions defined in the OECD Emission Scenario Document for decorative paints in professional and general public use were used. . The OECD Emission Scenario Document specifies two release factors to water, 0 for professional users, 0.015 (i.e. 1.5%) for the general public. The value of 1.5% was used. The release of 1.5% reflects the emissions originating from equipment cleaning with water. This release factor is applied as worst case approximation to solvent-borne and waterborne adhesives and paints. The release factor to air for FEICA 8c.3b.v2 (i.e. for volatiles in water-borne adhesives and sealants) is were approximated on the basis of the release factor defined for decorative paints in professional use and in general public use. The corresponding release factor to air is set to 98% following the OECD Emission Scenario Document. For FEICA 8c.3.v2 (i.e. for substances other than solvents volatiles in adhesives and sealants) the release fractions defined in the OECD Emission Scenario Document for decorative paints in professional and general public use were used. The OECD Emission Scenario Document specifies two release factors to water, 0 for professional users, 0.015 (i.e. 1.5%) for the general public. The value of 1.5% was used. The release of 1.5% reflects the emissions originating from equipment cleaning with water. This release factor is applied as worst case approximation to solvent-borne and water-borne adhesives and paints. The release factor to air is set to 0. OECD Emission Scenario Document Series Nr. 22, Coating Industry (Paints, Lacquers and Varnishes), July 2009 **Optional risk** Type of RMM Efficiency management measures FEICA 8a.3.v2 Professional and Consumer product use with limited or no technical control of emission FEICA 8c.3.v2 Wide dispersive use of adhesives and sealants by professional users and **Narrative** consumers description This SPERC describes SPERC parameters relevant to the wide dispersive use of adhesives and sealants by professional users and consumers. Adhesives and sealants are applied between two substrates. Different application techniques such as brushing or rolling, spraying, dipping, extrusion from a cartridge can be used. Upon application curing takes place either via a chemical reaction or via evaporation of a solvent. The solvent can be water or an organic volatile substance. Hence, volatile substances are released deliberately to the air. The non-volatiles substances are left behind in the matrix which has been formed between the substrates between the two substrates. Upon curing, a matrix is formed between the two substrates and the life-cycle stage of adhesive/sealant application is concluded. Scaling Not applicable for wide dispersive uses.

Appendix - Determinant Lists

FEICA SPERC 8a.3.v2 - Wide dispersive Use of Solvents in Professional and DIY Adhesives and Sealants

Determinant Label	Quali-/ Quanti- tative	Value	Description of Value	Standard Phrase	Efficiency -if applicable
Type of Process	Qual	Application of solvent borne or water-borne products		Application of solvent borne or water-borne products	
Indoor/outdoor use	Qual	Covers Indoor and Outdoor Use		Covers Indoor and Outdoor Use	
Equipment cleaning	Qual	Equipment cleaned with water, washing disposed of with wastewater.		Equipment cleaned with water, washing disposed of with wastewater.	
Process efficiency	Qual	Process with efficient use of raw materials.	Typically implemented measures for reducing emissions to waste water may include: - Closed batch systems	Process with efficient use of raw materials.	

FEICA SPERC 8c.3.v2- Wide dispersive Use of Substances other than Solvents in Professional and DIY Adhesives and Sealants

Determinant Label	Quali-/ Quanti- tative	Value	Description of Value	Standard Phrase	Efficiency -if applicable
Type of Process	Qual	Application of solvent borne or water-borne products		Application of solvent borne or water-borne products	
Indoor/outdoor use	Qual	Covers Indoor and Outdoor Use		Covers Indoor and Outdoor Use	
Equipment cleaning	Qual	Equipment cleaned with water, washing disposed of with wastewater.		Equipment cleaned with water, washing disposed of with wastewater.	
Process efficiency	Qual	Process with efficient use of raw materials.	Typically implemented measures for reducing emissions to waste water may include: - Closed batch systems	Process with efficient use of raw materials.	