

FS Section	Content field
1. Title	1.1 Widespread use of volatile substances in adhesives / sealants and construction chemical products - outdoor
	1.2 FEICA / EFCC SPERC 8d.1a.v2
2. Scope	2.1 Substance/Product Domain
	Substance types / functions / properties included or excluded: Includes volatile ingredients which evaporate to a significant extent upon curing of the product. Volatile substances are defined by a boiling point threshold of $\leq 250^{\circ}\text{C}$.
	Additional specification of product types covered: Covers the application of adhesives, sealants and construction chemical products for a wide range of purposes by consumers and by professional uses.
	Inclusion of sub-SPERCs: n
	2.2 Process domain
	Description of activities/processes: Adhesives and sealants are applied between two substrates. Upon application curing takes place either via a chemical reaction or via evaporation of a solvent. Construction chemical products cover the uses applied to buildings, their trim and fittings and construction purposes. Key processes may include: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities. Roller application or brushing, spraying (non-industrial), extrusion from a cartridge, dipping and pouring of articles.
	2.3 List of applicable Use Descriptors
	LCS: PW + C
SU: 19	
PC: 1, 9a, 9b	
3. Operational conditions	3.1 Conditions of use
	Location of use: outdoor
	Water contact during use: y+n
	Connected to a standard municipal biological STP: y
	Rigorously contained system with minimisation of release to the environment: n
	Further operational conditions impacting on releases to the environment:
	<ul style="list-style-type: none"> Automation in raw materials handling (manual / automatic dosing): manual
	<ul style="list-style-type: none"> Measures to achieve efficient raw material use (e.g. water re-use, recovery of substances from waste etc.): Information on proper dosing is provided on packaging.
	<ul style="list-style-type: none"> Equipment Cleaning: Equipment cleaned with solvent (organic or water), washing disposed of with wastewater.
	<ul style="list-style-type: none"> Process characteristic leading to low emissions to air: Professional and consumer product use with limited or no technical control of emission. Upon curing, substances evaporate to the ambient air
3.2 Waste Handling and Disposal	
<ul style="list-style-type: none"> Residues of products must be cured in the container before discarded via household waste. Larger solvent washing volumes are collected and disposed of as solvent waste. 	
4. Obligatory RMMs onsite	RMM limiting release to air: none
	RMM Efficiency (air): n/a
	Reference for RMM Efficiency (air): n/a
	RMM limiting release to water: none
	RMM Efficiency (water): n/a
	Reference for RMM Efficiency (water): n/a
	RMM limiting release to soil: none
	RMM Efficiency (soil): n/a
Reference for RMM Efficiency (soil): n/a	

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5. Exposure Assessment Input	5.1 Substance use rate
	Amount of substance use per day: to be assessed by registrant
	Fraction of EU tonnage used in region: 0.1 (default)
	Fraction of Regional tonnage used locally: 0.002 (default)
	Justification / information source: widespread use (REACH Guidance - Chapter R.16: Environmental exposure assessment)
	5.2 Days emitting
	Number of emission days per year: 365
	Justification / information source: widespread use (REACH Guidance - Chapter R.16: Environmental exposure assessment)
	5.3 Release factors
	sub-SPERC identifier: n/a
	ERC: 8d
	sub-SPERC applicability: n/a
	5.3.1 Release Factor – air
	Numeric value / percent of input amount (Air): 98%
	Justification of RFs (Air): see background document
	5.3.2 Release Factor – water
	Numeric value / percent of input amount (Water): 1.5%
	Justification of RFs (Water): see background document
	5.3.3 Release Factor – soil
	Numeric value / percent of input amount (Soil): 0%
Justification of RFs (Soil): see background document	
5.3.4 Release Factor – waste	
Percent of input amount disposed as waste: 2-6%	
Justification of RFs: see background document	
References to SPERC Background Document ¹	
	FEICA / EFCC (2018): Specific Environmental Release Categories (SPERCs) for the wide spread use of adhesives, sealants and construction chemical products

¹ The objective of this factsheet is to summarize the SPERC key facts provided in the corresponding SPERC background documents. It gives an overview of the SPERC essentials for the chemical safety assessment. A SPERC background document is a reference document, which provides the description of the emission situation(s) for a use specified by an industrial sector, the justification and applicability domain of the environmental release factors, and the references/information sources/methods used in the derivation of the release factors.