<table>
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<th>FS Section</th>
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</table>
| 1. Title   | 1.1 Formulation of Solvent-borne and Solvent-less Adhesives / Sealants and Construction Chemical Products - non-volatile Substances  
1.2 FEICA / EFCC SPERC 2.1a.v3 |
| 2. Scope   | 2.1 Substance/Product Domain  
Substance types / functions / properties included or excluded: Includes substances other than solvents which do not evaporate to a significant extent during formulation of the adhesive. Non-volatile ingredients are defined by a boiling point threshold of >250°C.  
Additional specification of product types covered: none  
Inclusion of sub-SPERCs: n |
|            | 2.2 Process domain  
Description of activities/processes: storing, mixing, packaging, filling of substances (as part of preparations) and equipment cleaning, maintenance and associated laboratory activities |
|            | 2.3 List of applicable Use Descriptors  
LCS: F  
SU: 0  
PC: 1, 9a, 9b |
| 3. Operational conditions | 3.1 Conditions of use  
Location of use: indoor  
Water contact during use: 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:  
- Automation in raw materials handling (manual / automatic dosing): High degree of automation in adhesive / sealant formulation  
- Measures to achieve efficient raw material use (e.g. water re-use, recovery of substances from waste etc.): The manufacture of adhesive chemicals is a multi-stage batch process. The process is arranged to maximise the efficiency of use of input raw materials, through the highest conversion into formulated products.  
- Conditions preventing emissions to air: use of closed or covered manufacturing equipment to minimise evaporative losses of solids below respective OELs. Use of general and manufacturing plant extraction.  
- Air extraction systems with dust filters during transfer and formulation of powder raw materials with efficiencies of 99%  
3.2 Waste Handling and Disposal  
Equipment cleaned with organic solvent, washings 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 |
| 5. Exposure Assessment Input | 5.1 Substance use rate  
Amount of substance use per day: The indicative worst case use rate values (MSPERC) for individual ingredient types and guidance for refinement can be found in background documentation.  
Fraction of EU tonnage used in region: n/a  
Fraction of Regional tonnage used locally: n/a  
Justification / information source: FEICA / EFCC (2017). Specific Environmental Release Categories (SPERCs) for the formulation of adhesives and sealants and construction chemical products  
5.2 Days emitting  
Number of emission days per year: 300  
Justification / information source: FEICA / EFCC (2017). Specific Environmental Release Categories (SPERCs) for the formulation of adhesives and sealants and construction chemical products |
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<tbody>
<tr>
<td>5.3 Release factors</td>
<td></td>
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<tr>
<td>sub-SPERC identifier: n/a</td>
<td></td>
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<tr>
<td>ERC: 2</td>
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<tr>
<td>sub-SPERC applicability: n/a</td>
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<tr>
<td>5.3.1 Release Factor – air</td>
<td>Numeric value / percent of input amount (Air): 0.08%</td>
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<tr>
<td>5.3.2 Release Factor – water</td>
<td>Numeric value / percent of input amount (Water): 0.02%</td>
</tr>
<tr>
<td>5.3.3 Release Factor – soil</td>
<td>Numeric value / percent of input amount (Soil): 0%</td>
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<tr>
<td>5.3.4 Release Factor – waste</td>
<td>Percent of input amount disposed as waste: 0.2 -3%</td>
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</tbody>
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References to SPERC Background Document ¹

FEICA / EFCC (2017). Specific Environmental Release Categories (SPERCs) for the formulation of adhesives and sealants and construction chemical products

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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.