<table>
<thead>
<tr>
<th>FS Section</th>
<th>Content field</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Title</td>
<td>1.1 Widespread use of volatile substances in adhesives / sealants - indoor</td>
</tr>
<tr>
<td></td>
<td>1.2 FEICA SPERC 8a.3.v3</td>
</tr>
<tr>
<td>2. Scope</td>
<td>2.1 Substance/Product Domain</td>
</tr>
<tr>
<td></td>
<td>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 ( &lt; 250^\circ\text{C} ).</td>
</tr>
<tr>
<td></td>
<td>Additional specification of product types covered: Covers the application of adhesives and sealants for a wide range of purposes by consumers and by professional uses. No distinction is made between water-borne and solvent borne adhesives and sealants.</td>
</tr>
<tr>
<td></td>
<td>Inclusion of sub-SPERCs: n</td>
</tr>
<tr>
<td></td>
<td>2.2 Process domain</td>
</tr>
<tr>
<td></td>
<td>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. Covers different adhesive and sealant application techniques such as brushing or rolling, spraying (non-industrial), dipping, extrusion from a cartridge, syringe- and bead-application.</td>
</tr>
<tr>
<td>3. Operational conditions</td>
<td>3.1 Conditions of use</td>
</tr>
<tr>
<td></td>
<td>Location of use: Indoor</td>
</tr>
<tr>
<td></td>
<td>Water contact during use: y+n</td>
</tr>
<tr>
<td></td>
<td>Connected to a standard municipal biological STP: y</td>
</tr>
<tr>
<td></td>
<td>Rigorously contained system with minimisation of release to the environment: n</td>
</tr>
<tr>
<td></td>
<td>Further operational conditions impacting on releases to the environment:</td>
</tr>
<tr>
<td></td>
<td>• Automation in raw materials handling (manual / automatic dosing): manual</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• Equipment Cleaning: Equipment cleaned with solvent (organic or water), washing disposed of with wastewater.</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
<tr>
<td>4. Obligatory RMMs onsite</td>
<td>3.2 Waste Handling and Disposal</td>
</tr>
<tr>
<td>RMM limiting release to air: none</td>
<td></td>
</tr>
<tr>
<td>RMM Efficiency (air): n/a</td>
<td></td>
</tr>
<tr>
<td>RMM limiting release to water: none</td>
<td></td>
</tr>
<tr>
<td>RMM Efficiency (water): n/a</td>
<td></td>
</tr>
<tr>
<td>RMM limiting release to soil: none</td>
<td></td>
</tr>
<tr>
<td>RMM Efficiency (soil): n/a</td>
<td></td>
</tr>
<tr>
<td>5. Exposure Assessment Input</td>
<td>5.1 Substance use rate</td>
</tr>
<tr>
<td>Amount of substance use per day: to be assessed by registrant</td>
<td></td>
</tr>
<tr>
<td>Fraction of EU tonnage used in region: 0.1 (default)</td>
<td></td>
</tr>
<tr>
<td>Fraction of Regional tonnage used locally: 0.002 (default)</td>
<td></td>
</tr>
<tr>
<td>Justification / information source: widespread use (REACH Guidance - Chapter R.16: Environmental exposure assessment)</td>
<td></td>
</tr>
</tbody>
</table>
### FS Section: 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

<table>
<thead>
<tr>
<th>sub-S ERC identifier</th>
<th>n/a</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERC</td>
<td>8a</td>
</tr>
</tbody>
</table>

#### 5.3.1 Release Factor – air

**Numeric value / percent of input amount (Air):** 98%


#### 5.3.2 Release Factor – water

**Numeric value / percent of input amount (Water):** 1.5%


#### 5.3.3 Release Factor – soil

**Numeric value / percent of input amount (Soil):** 0%


#### 5.3.4 Release Factor – waste

**Percent of input amount disposed as waste:** 2-6%

**Justification of RFs:** OECD Environment, Health and Safety Publications Series on Emission Scenario Documents No. 22, EMISSION SCENARIO DOCUMENTS ON COATING INDUSTRY (Paints, Laquers and Varnishes), Paris 2009.

---

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.