

# Environment Information in the SDS of an Adhesive

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# REACH environmental safety assessment

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- Environmental safety assessment results are difficult to understand for non-experts.
- Can the relevant information on operational conditions / risk management measures be provided without going into assessment detail?

# Adhesive Uses

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# What's specific for adhesives / sealants?

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- Adhesives and sealants are intentionally applied to a substrate to remain in place.
- REACH Guidance nomenclature:
  - Uses 'resulting in inclusion into or onto a matrix', ERC5, ERC8c / ERC8d.
  - Solvents for dispersing non-volatile adhesive / sealant ingredients evaporate upon application are addressed as 'use of processing aids' (ERC4), ERC8a / ERC8d.
- SPERCs address substance releases from adhesive/sealant uses & refine ERCs

# FEICA SPERCs (I)

Use of Substances other than Solvents	Release factor to			M <sub>spERC</sub>
	Air	Water	Soil	
Industrial Use - paper, board and related products / woodworking & joinery / footwear and leather, textile, others adhesives	1.70%	0.00%	0.00%	100 kg/d
Industrial Use - Transportation (automotive/aircraft/rail vehicles) / industrial building, construction adhesives	1.70%	0.00%	0.00%	800 kg/d
Industrial Use - water borne adhesives	0.00%	0.30%	0.00%	100 kg/d
Wide dispersive Use - Adhesives and sealants	0.00%	1.50%	0.00%	n.a.

**Low releases to the environment**

Emissions are low —



# FEICA SPERCs (II)

Solvent Use / Release factor to	Air	Water	Soil	M <sub>spERC</sub>
Industrial Use - Paper, Board and related Products / Woodworking and joinery / Footwear and Leather, Textile, Others Adhesives	98.5%	0.00%	0.00%	600 kg/d
Industrial Use - Transportation (Automotive/aircraft/rail vehicles) / industrial Building Construction Adhesives	98.5%	0.00%	0.00%	1900 kg/d
Wide dispersive Use - Adhesives and Sealants	98.0%	1.50%	0.00%	n.a.

**RMMs in place in high use sites**

**High release to the environment**

**Low releases to the environment**

**Emissions are controlled**

**Small amounts are used**

Emissions are low

**Assumption: There is no environmental risk from adhesive use under practically relevant conditions**



# How to go on?

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## Technical tasks

- Verify assumption for set of ,worst-case' substances (incl. solvents).
- Establish essential information for communication in SDS for adhesive and sealant mixtures.

## Communication tasks

- Under which conditions is the approach acceptable – for other sectors, ECHA, authorities?
- Does the approach have elements which appear useful for other sectors / applications as well?