

Use Descriptors as Adhesive and sealants manufacture

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)						Temperature
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life	
											Industrial	Professional	Consumer		
FEICA-UseR 10-1	Adhesive and sealants manufacture	Adh. manufacture in closed or continuous process	SU10	PROC2	n.a.	n.a.	n.a.	ERC2	x						RT: up to 40 °C
FEICA-UseR 10-2		Adh. manufacture in closed or continuous process	SU10	PROC2	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-3		Adh. manufacture in closed or continuous process	SU10	PROC2	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-4		Adhesive manufacture in closed batch process	SU10	PROC3	n.a.	n.a.	n.a.	ERC2	x						RT: up to 40 °C
FEICA-UseR 10-5		Adhesive manufacture in closed batch process	SU10	PROC3	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-6		Adhesive manufacture in closed batch process	SU10	PROC3	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-7		Adhesive synthesis in batch process	SU10	PROC4	n.a.	n.a.	n.a.	ERC2	x						RT: up to 40 °C
FEICA-UseR 10-8		Adhesive synthesis in batch process	SU10	PROC4	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-9		Adhesive synthesis in batch process	SU10	PROC4	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-10		Adhesive formulation in batch process	SU10	PROC5	n.a.	n.a.	n.a.	ERC2	x						RT: up to 40 °C
FEICA-UseR 10-11		Adhesive formulation in batch process	SU10	PROC5	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-12		Adhesive formulation in batch process	SU10	PROC5	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-13		Transfer of adh. or raw materials from/to large containers	SU10	PROC8a	n.a.	n.a.	n.a.	ERC2		x					RT: up to 40 °C
FEICA-UseR 10-14		Transfer of adh. or raw materials from/to large containers	SU10	PROC8a	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-15		Transfer of adh. or raw materials from/to large containers	SU10	PROC8a	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-16		Transfer of adh. or raw materials from/to large containers	SU10	PROC8b	n.a.	n.a.	n.a.	ERC2		x					RT: up to 40 °C
FEICA-UseR 10-17		Transfer of adh. or raw materials from/to large containers	SU10	PROC8b	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-18		Transfer of adh. or raw materials from/to large containers	SU10	PROC8b	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-19		Transfer adh. or raw materials into small containers	SU10	PROC9	n.a.	n.a.	n.a.	ERC2		x					RT: up to 40 °C
FEICA-UseR 10-20		Transfer adh. or raw materials into small containers	SU10	PROC9	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-21		Transfer adh. or raw materials into small containers	SU10	PROC9	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-22		"Low energy" application of adhesives	SU10	PROC10	n.a.	n.a.	n.a.	ERC2		x					RT: up to 40 °C
FEICA-UseR 10-23		"Low energy" application of adhesives	SU10	PROC10	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-24		"Low energy" application of adhesives	SU10	PROC10	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C
FEICA-UseR 10-25		Prod. of adhesives by tableting, compression, extrusion	SU10	PROC14	n.a.	n.a.	n.a.	ERC2		x					RT: up to 40 °C
FEICA-UseR 10-26		Prod. of adhesives by tableting, compression, extrusion	SU10	PROC14	n.a.	n.a.	n.a.	ERC2		x					medium: 40 - 70 °C
FEICA-UseR 10-27		Prod. of adhesives by tableting, compression, extrusion	SU10	PROC14	n.a.	n.a.	n.a.	ERC2		x					high: above 70 °C

Remarks:

Sectors of Use (SU)

- SU 10: summarizes all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)
- SU 3: summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)
- SU 22: summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

Article Category (AC) does not apply for adhesives, since they are in a cured stage high molecular substances or polymers with no intention to be released.

Adhesive can be used for all type of articles therefore a proper assignment can only be made with an e-SDS for a specific preparation when specific issues like recycling are addressed.

Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environment is addressed by the SPERCs.

Use Descriptors as Adhesive and sealants industrial use

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Temperature	
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use				Service Life
											Industrial	Professional	Consumer		
FEICA-UseR 3-1	Adhesive and sealants industrial use	Adhesive use in closed or continuous process	SU3	PROC2	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-2		Adhesive use in batch or other process	SU3	PROC4	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-3		Adhesive use in batch or other process	SU3	PROC4	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-4		Adhesive use in batch or other process	SU3	PROC4	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-5		Mixing or blending of adhesives in batch processes	SU3	PROC5	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-6		Mixing or blending of adhesives in batch processes	SU3	PROC5	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-7		Mixing or blending of adhesives in batch processes	SU3	PROC5	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-8		Spraying of adhesives in industrial settings	SU3	PROC7	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-9		Spraying of adhesives in industrial settings	SU3	PROC7	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-10		Spraying of adhesives in industrial settings	SU3	PROC7	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-11		Transfer of adhesives from/to large containers	SU3	PROC8a	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-12		Transfer of adhesives from/to large containers	SU3	PROC8a	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-13		Transfer of adhesives from/to large containers	SU3	PROC8a	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-14		Transfer of adhesives from/to large containers	SU3	PROC8b	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-15		Transfer of adhesives from/to large containers	SU3	PROC8b	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-16		Transfer of adhesives from/to large containers	SU3	PROC8b	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-17		Transfer adhesives into small containers	SU3	PROC9	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-18		Transfer adhesives into small containers	SU3	PROC9	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-19		Transfer adhesives into small containers	SU3	PROC9	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-20		"Low energy" application of adhesives	SU3	PROC40	n.a.	n.a.	n.a.	ERC8e			x				high: above 70 °C
FEICA-UseR 3-21		"Low energy" application of adhesives	SU3	PROC40	n.a.	n.a.	n.a.	ERC8e			x				medium: 40 - 70 °C
FEICA-UseR 3-22		"Low energy" application of adhesives	SU3	PROC40	n.a.	n.a.	n.a.	ERC8e			x				RT: up to 40 °C
FEICA-UseR 3-23		"Low energy" application of adhesives	SU3	PROC10	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-24		"Low energy" application of adhesives	SU3	PROC10	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-25		"Low energy" application of adhesives	SU3	PROC10	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-26		Spraying of adhesives	SU3	PROC11	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-27		Spraying of adhesives	SU3	PROC11	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-28		Use of blow agents in manufacture of foam	SU3	PROC12	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-29		Use of blow agents in manufacture of foam	SU3	PROC12	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-30		Use of blow agents in manufacture of foam	SU3	PROC12	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-31		Dipping and pouring of adhesives in/onto articles	SU3	PROC13	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C
FEICA-UseR 3-32		Dipping and pouring of adhesives in/onto articles	SU3	PROC13	n.a.	n.a.	n.a.	ERC5			x				medium: 40 - 70 °C
FEICA-UseR 3-33		Dipping and pouring of adhesives in/onto articles	SU3	PROC13	n.a.	n.a.	n.a.	ERC5			x				RT: up to 40 °C
FEICA-UseR 3-34		Tabletting, compression, extrusion using adhesives	SU3	PROC14	n.a.	n.a.	n.a.	ERC5			x				high: above 70 °C

Remarks:

Sectors of Use (SU)
- SU 10: summarizes all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)
- SU 3: summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)
- SU 22: summarizes all professional uses (e.g. SU19)
- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes
PROC 19 : after discussion we decided to take out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now covered under PROC8a
Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

Article Category (AC) does not apply for adhesives, since they are in a cured stage high molecular substances or polymers with no intention to be released.
Adhesive can be used for all types of articles therefore a proper assignment can only be made with an e-SDS for a specific preparation when specific issues like recycling are addressed.

Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.
The release of such solvents into the environment is addressed by the SPERCs.

Use Descriptors as Industrial Solvent use (Processing aid)

Code	Short ES title	Short description of process or activity	use descriptors					Life Cycle Stage(s)					Temperature		
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life	
											Industrial	Professional			Consumer
FEICA-UseR-3-35	Industrial Solvent use (Processing aid)	Solvents (Processing aids) used in adhesives	SU3	PROC2				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-36		Solvents (Processing aids) used in adhesives	SU3	PROC3				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-37		Solvents (Processing aids) used in adhesives	SU3	PROC7				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-38		Solvents (Processing aids) used in adhesives	SU3	PROC8a				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-39		Solvents (Processing aids) used in adhesives	SU3	PROC8b				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-40		Solvents (Processing aids) used in adhesives	SU3	PROC10				ERC 4			x				RT: up to 40 °C
FEICA-UseR-3-41		Solvents (Processing aids) used in adhesives	SU3	PROC13				ERC 4			x				RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10:** summarizes all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)
- **SU 3:** summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)
- **SU 22:** summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to take out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now covered under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

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Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environment is addressed by the SPERCs.

Use Descriptors as Adhesive consumer use

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)						Temperature
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life	
											Industrial	Professional	Consumer		
FEICA-UseR 21-1	Adhesive consumer use	n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8f					x		high: above 70 °C
FEICA-UseR 21-2		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8f					x		RT: up to 40 °C
FEICA-UseR 21-3		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8c					x		high: above 70 °C
FEICA-UseR 21-4		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8c					x		RT: up to 40 °C
FEICA-UseR 21-5		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8f					x		high: above 70 °C
FEICA-UseR 21-6		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8f					x		RT: up to 40 °C
FEICA-UseR 21-7		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8c					x		high: above 70 °C
FEICA-UseR 21-8		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8c					x		RT: up to 40 °C
FEICA-UseR 21-9		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8f					x		high: above 70 °C
FEICA-UseR 21-10		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8f					x		RT: up to 40 °C
FEICA-UseR 21-11		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8c					x		high: above 70 °C
FEICA-UseR 21-12		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8c					x		RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10:** summarizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3:** summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22:** summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

Article Category (AC) does not apply for adhesives, since they are in a cured stage high molecular substances or polymers with no intention to be released.

Adhesive can be used for all type of articles therefore a proper assignment can only be made with an e-SDS for a specific preparation when specific issues like recycling are adressed.

Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environnement is adressed by the SPERCs.

Use Descriptors as Sealant consumer use

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Temperature	
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use				Service Life
											Industrial	Professional	Consumer		
FEICA-UseR-21-13	Sealant consumer use	n.a. (not applicable)	SU21	n.a.	PC1	B04	n.a.	ERC8c					x		RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10:** summarizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3:** summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22:** summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

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Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environnement is adressed by the SPERCs.

Use Descriptors as Consumer Solvent use, Indoor

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Temperature	
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use				Service Life
											Industrial	Professional	Consumer		
FEICA-UseR-21-14	Consumer	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B01						x		RT: up to 40 °C	
FEICA-UseR-21-15	Solvent use,	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B02						x		RT: up to 40 °C	
FEICA-UseR-21-16	Indoor	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B03						x		RT: up to 40 °C	

Remarks:

Sectors of Use (SU)

- **SU 10:** summarizes all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3:** summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22:** summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19: after discussion we decided to take out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now covered under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

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Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

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Use Descriptors as Consumer Solvent use, Outdoor

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)						Temperature
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life	
											Industrial	Professional	Consumer		
FEICA-UseR-21-17	Consumer	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	Bo1						x		RT: up to 40 °C	
FEICA-UseR-21-18	Solvent use,	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B02						x		RT: up to 40 °C	
FEICA-UseR-21-19	Outdoor	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B03						x		RT: up to 40 °C	

Remarks:

Sectors of Use (SU)

- **SU 10:** summerizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3:** summerizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22:** summerizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

Article Category (AC) does not apply for adhesives, since they are in a cured stage high molecular substances or polymers with no intention to be released.

Adhesive can be used for all type of articles therefore a proper assignment can only be made with an e-SDS for a specific preparation when specific issues like recycling are adressed.

Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environnement is adressed by the SPERCs.

Use Descriptors as Adhesive and sealants professional use

Code	Short ES title	Short description of process or activity	use descriptors					Life Cycle Stage(s)					Temperature		
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life	
											Industrial	Professional			Consumer
FEICA-UseR 22-1	Adhesive and sealants professional use	Mixing or blending of adhesives in batch processes	SU22	PROC5	n.a.	n.a.	n.a.	ERC8f				x			RT: up to 40 °C
FEICA-UseR 22-2		Mixing or blending of adhesives in batch processes	SU22	PROC5	n.a.	n.a.	n.a.	ERC8c				x			high: above 70 °C
FEICA-UseR 22-3		Mixing or blending of adhesives in batch processes	SU22	PROC5	n.a.	n.a.	n.a.	ERC8c				x			medium: 40 - 70 °C
FEICA-UseR 22-4		Mixing or blending of adhesives in batch processes	SU22	PROC5	n.a.	n.a.	n.a.	ERC8c				x			RT: up to 40 °C
FEICA-UseR 22-5		Transfer of adhesives from/to containers	SU22	PROC8a	n.a.	n.a.	n.a.	ERC8f				x			RT: up to 40 °C
FEICA-UseR 22-6		Transfer of adhesives from/to containers	SU22	PROC8a	n.a.	n.a.	n.a.	ERC8c				x			RT: up to 40 °C
FEICA-UseR 22-7		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f				x			RT: up to 40 °C
FEICA-UseR 22-8		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f				x			medium: 40 - 70 °C
FEICA-UseR 22-9		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f				x			high: above 70 °C
FEICA-UseR 22-10		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c				x			RT: up to 40 °C
FEICA-UseR 22-11		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c				x			medium: 40 - 70 °C
FEICA-UseR 22-12		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c				x			high: above 70 °C
FEICA-UseR 22-13		Spraying of adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC8f				x			RT: up to 40 °C
FEICA-UseR 22-14		Spraying of adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC8c				x			RT: up to 40 °C
FEICA-UseR 22-15		Hand-mixing of adhesives with intimate contact	SU22	PROC19	n.a.	n.a.	n.a.	ERC8e				x			RT: up to 40 °C
FEICA-UseR 22-16		Hand-mixing of adhesives with intimate contact	SU22	PROC19	n.a.	n.a.	n.a.	ERC8f				x			RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10**: summarizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3**: summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22**: summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

Consumer exposure is not triggered by PROCs but by Product Category (PC) with four subcategories

RMM entries indicate options and describe which RMM are possible

Article Category (AC) does not apply for adhesives, since they are in a cured stage high molecular substances or polymers with no intention to be released.

Adhesive can be used for all type of articles therefore a proper assignment can only be made with an e-SDS for a specific preparation when specific issues like recycling are adressed.

Regarding the ERC 8c and 8f adhesives are always applied onto a matrix. If there are solvents in adhesives, they are seen as part of the product and not as processing aid.

The release of such solvents into the environnement is adressed by the SPERCs.

Use Descriptors as Professional Solvent use, Indoor (Processing aid)

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Temperature	
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use				Service Life
											Industrial	Professional	Consumer		
FEICA-UseR-22-17	Professional Solvent use, Indoor (Processing aid)	Solvents (Processing aids) used in adhesives	SU22	PROC8a	n.a.	n.a.	n.a.	ERC 8a				x			RT: up to 40 °C
FEICA-UseR-22-18		Solvents (Processing aids) used in adhesives	SU22	PROC8b	n.a.	n.a.	n.a.	ERC 8a				x			RT: up to 40 °C
FEICA-UseR-22-19		Solvents (Processing aids) used in adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC 8a				x			RT: up to 40 °C
FEICA-UseR-22-20		Solvents (Processing aids) used in adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC 8a				x			RT: up to 40 °C
FEICA-UseR-22-21		Solvents (Processing aids) used in adhesives	SU22	PROC13	n.a.	n.a.	n.a.	ERC 8a				x			RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10**: summarizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)
- **SU 3**: summarizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)
- **SU 22**: summarizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

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The release of such solvents into the environnement is adressed by the SPERCs.

Use Descriptors as Professional Solvent use, Outdoor (Processing aid)

Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Temperature	
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Environmental Release Category (ERC)	Manufacture	Formulation	end use				Service Life
											Industrial	Professional	Consumer		
FEICA-UseR-22-22	Professional Solvent use, Outdoor (Processing aid)	Solvents (Processing aids) used in adhesives	SU22	PROC8a	n.a.	n.a.	n.a.	ERC 8d				x			RT: up to 40 °C
FEICA-UseR-22-23		Solvents (Processing aids) used in adhesives	SU22	PROC8b	n.a.	n.a.	n.a.	ERC 8d				x			RT: up to 40 °C
FEICA-UseR-22-24		Solvents (Processing aids) used in adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC 8d				x			RT: up to 40 °C
FEICA-UseR-22-25		Solvents (Processing aids) used in adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC 8d				x			RT: up to 40 °C
FEICA-UseR-22-26		Solvents (Processing aids) used in adhesives	SU22	PROC13	n.a.	n.a.	n.a.	ERC 8d				x			RT: up to 40 °C

Remarks:

Sectors of Use (SU)

- **SU 10**: summarizes all all adhesive manufacturing (formulation and synthesis of adhesives including polymerization)

- **SU 3**: summerizes all industrial uses (e.g. SU6, SU16, SU17, SU18, SU19)

- **SU 22**: summerizes all professional uses (e.g. SU19)

- PROC 15 (Use a laboratory reagent) is not applicable because larger laboratories and R+D installations will be treated as industrial processes

PROC 19 : after discussion we decided to took out the PROC19 since the default values in ECTOC-TRA do not correspond with the real use conditions, this PROC is now cover under PROC8a

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Sectors of Use

SU10	Chemical formulation and/or re-packaging
SU3	Industrial Manufacturing & Maintenance (all)
SU 16	Manufacture of computer, electronic and optical products, electrical equipment
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU21	Private households (= general public = consumers)
SU22	Public domain (administration, education, entertainment, services, craftsmen)
SU 19	Building and construction work

Process Categories

PROC1	Use in closed process, no likelihood of exposure - Industrial setting
PROC2	Use in closed, continuous process with occasional controlled exposure (e.g. sampling), Industrial setting
PROC3	Use in closed batch process (synthesis or formulation) - Industrial setting
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises, Industrial setting
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC6	Calendering operations Industrial setting
PROC7	Spraying in industrial settings and applications, Industrial setting
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities.
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Industrial setting;
PROC10	Roller application or brushing of adhesive and other coating, Industrial or non-industrial setting
PROC11	Spraying outside industrial settings and/or applications
PROC12	Use of blow agents in manufacture of foam, Industrial setting;
PROC13	Treatment of articles by dipping and pouring, Industrial or non-industrial setting;
PROC14	Production of preparations or articles by tableting, compression, extrusion, pelettisation, Industrial setting;
PROC15	Use a laboratory reagent, Non-industrial setting;
PROC16	Using material as fuel sources, limited exposure to unburned product to be expected, Industrial or non-industrial setting;
PROC17	Lubrication at high energy conditions and in partly open process, Industrial or non-industrial setting;
PROC18	Greasing at high energy conditions, Industrial or non-industrial setting;
PROC19	Hand-mixing with intimate contact and only PPE available. Non-industrial setting.

Product Categories

PC1	Adhesives, sealants & coatings
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PC1 - subcategories

B01	Glues, hobby use
B02	Glues, D.I.Y.- use, carpet glue, tile glue, wood parquet glue
B03	Glue from spray
B04	sealant

Environmental Release Classes

ERC2	Formulation of preparations
ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
ERC8f	Wide dispersive outdoor use resulting in inclusion into or onto a matrix