



The European voice of the  
**adhesive** and **sealant industry**



# FEICA User Descriptors

## Revision

Version	Date	Publ. Ref.	Remarks
V1	16 November 2009	-	Final document published
V2	03 October 2012	-	Minor corrections, no content changes
V3	17 July 2013	RAM-C07-017_FEICA_User_Descriptor_V3	FEICA UseR Foam Sealants added



Code	Short ES title	Short description of process or activity	use descriptors						Life Cycle Stage(s)					Exposure Modifier				RMM		SPERC (under development)	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			duration and frequency (exposure time)	Outdoor	Indoor		respiratory protection	Eye protection (goggles)			protection of hands (gloves)
											Industrial	Professional	Consumer			with LEV	without LEV					
FEICA-UseR 21-1	Adhesive consumer use	n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8f									yes	no	no	no		high: above 70 °C
FEICA-UseR 21-2		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8f									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-3		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8c									yes	no	no	no		high: above 70 °C
FEICA-UseR 21-4		n.a. (not applicable)	SU21	n.a.	PC1	B01	n.a.	ERC8c									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-5		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8f									yes	no	no	yes		high: above 70 °C
FEICA-UseR 21-6		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8f									yes	no	no	yes		RT: up to 40 °C
FEICA-UseR 21-7		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8c									yes	no	no	yes		high: above 70 °C
FEICA-UseR 21-8		n.a. (not applicable)	SU21	n.a.	PC1	B02	n.a.	ERC8c									yes	no	no	yes		RT: up to 40 °C
FEICA-UseR 21-9		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8f									yes	no	no	no		high: above 70 °C
FEICA-UseR 21-10		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8f									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-11		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8c									yes	no	no	no		high: above 70 °C
FEICA-UseR 21-12		n.a. (not applicable)	SU21	n.a.	PC1	B03	n.a.	ERC8c									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-13	Sealant consumer use	n.a. (not applicable)	SU21	n.a.	PC1	B04	n.a.	ERC8c									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-14	Consumer Solvent use, Indoor	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B01	n.a.	ERC 8a									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-15		Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B02	n.a.	ERC 8a									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-16	Consumer Solvent use, Outdoor	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B03	n.a.	ERC 8a									yes	no	no	no		RT: up to 40 °C
FEICA-UseR 21-17		Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B01	n.a.	ERC 8d					yes				no	no	no	no		RT: up to 40 °C
FEICA-UseR 21-18		Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B02	n.a.	ERC 8d					yes				no	no	no	no		RT: up to 40 °C
FEICA-UseR 21-19	Adhesive and sealants professional use	Solvents (Processing aids) used in adhesives	SU21	n.a.	PC1	B03	n.a.	ERC 8d					yes				no	no	no	no		RT: up to 40 °C
FEICA-UseR 22-1		Mixing or blending of adhesives in batch processes	SU22	PROC5	n.a.	n.a.	n.a.	ERC8f									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-5		Transfer of adhesives from/to containers	SU22	PROC8a	n.a.	n.a.	n.a.	ERC8f									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-6		Transfer of adhesives from/to containers	SU22	PROC8a	n.a.	n.a.	n.a.	ERC8c									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-7		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-8		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f									yes	no	yes	yes		medium: 40 - 70 °C
FEICA-UseR 22-9		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8f									yes	no	high	yes		high: above 70 °C
FEICA-UseR 22-10		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-11		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c									yes	no	yes	yes		medium: 40 - 70 °C
FEICA-UseR 22-12		"Low energy" application of adhesives	SU22	PROC10	n.a.	n.a.	n.a.	ERC8c									yes	no	yes	yes		high: above 70 °C
FEICA-UseR 22-13		Spraying of adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC8f									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-14		Spraying of adhesives	SU22	PROC11	n.a.	n.a.	n.a.	ERC8c									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		RT: up to 40 °C	
FEICA-UseR 22-17	Professional Solvent use, Indoor (Processing aids)	Solvents (Processing aids) used in adhesives	SU22	PROC8a	n.a.	n.a.	n.a.	ERC 8a									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		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									yes	no	yes	yes		RT: up to 40 °C
FEICA-UseR 22-22		Solvents (Processing aids) used in adhesives	SU22	PROC8a	n.a.	n.a.	n.a.	ERC 8d						yes			yes	no	yes	yes		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						yes			yes	no	yes	yes		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						yes			yes	no	yes	yes		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						yes			yes	no	yes	yes		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						yes			yes	no	yes	yes		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

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.

Code	Short ES title	Short description of process or activity	Use descriptors						Life Cycle Stage(s)					Exposure Modifier				RMM		SPERC*	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			duration and frequency (exposure time)	Outdoor	Indoor		respiratory protection	Eye protection (goggles)		protection of hands (gloves)	<40°C	40°C-70°C	>70°C
											Industrial	Professional	Consumer		Service Life	with LEV	without LEV							
FEICA F1	Adhesive manufacturing in closed process	Synthesis and formulation of adhesives in closed processes	SU10	PROC3 PROC8b PROC9	n.a.	n.a.	n.a.	ERC2		x						yes		yes	yes	yes	yes	L	M	H
FEICA F2	Adhesive manufacturing in open process	Synthesis and formulation of adhesives in open and batch processes	SU10	PROC4 PROC5 PROC8b PROC9	n.a.	n.a.	n.a.	ERC2		x						yes		yes	yes	yes	yes	L	M	H
FEICA I 1	Industrial spray application of adhesives	Industrial spray application of adhesives	SU3	PROC5 PROC7 PROC8 PROC9	n.a.	n.a.	n.a.	ERC5			x					yes		yes	yes	yes	yes	L	M	H
FEICA I 2	Industrial application of adhesives	Industrial application of adhesives by rolling brushing or other coating	SU3	PROC5 PROC8 PROC9 PROC10 PROC12 PROC13 PROC14	n.a.	n.a.	n.a.	ERC5				x				yes		yes	yes	yes	yes	L	M	H
FEICA P 1	Professional spray application of adhesives indoor	Professional indoor spraying of adhesives outside industrial settings	SU22	PROC8 PROC9 PROC11 PROC19	n.a.	n.a.	n.a.	ERC8c									yes		yes	yes	yes	L	M	H
FEICA P 2	Professional application of adhesives indoor	Professional indoor application of adhesives by rolling, brushing or other coating	SU22	PROC8 PROC9 PROC10 PROC13 PROC19	n.a.	n.a.	n.a.	ERC8c									yes		yes	yes	yes	L	M	H
FEICA P 3	Professional spray application of adhesives outdoor	Professional outdoor spraying of adhesives outside industrial settings	SU22	PROC8 PROC9 PROC11 PROC19	n.a.	n.a.	n.a.	ERC8f							yes			yes	yes	yes	yes	L	M	H
FEICA P 4	Professional application of adhesives outdoor	Professional outdoor application of adhesives by rolling, brushing or other coating	SU22	PROC8 PROC9 PROC10 PROC13 PROC19	n.a.	n.a.	n.a.	ERC8f							yes			yes	yes	yes	yes	L	M	H
FEICA C1	Consumer Use, Adhesive and Sealants, Indoor	Consumer use of adhesives and sealants, indoor	SU21	n.a.	PC1 PC1 PC1	B01 B02 B03 B04	n.a.	ERC8c						default from ECETOC-TRA								L	M	H
FEICA C2	Consumer Use, Adhesive and Sealants, Outdoor	Consumer use of adhesives and sealants, outdoor	SU21	n.a.	PC1 PC1 PC1	B01 B02 B03 B04	n.a.	ERC8f						default from ECETOC-TRA								L	M	H
FEICA I 3	Industrial extrusion or pelletisation	Production of preparation or articles by tableting, compression, extrusion or pelletisation	SU3	PROC3 PROC4 PROC5 PROC9 PROC14	n.a.	n.a.	n.a.	ERC5			x			8 h default (unless specified different)					yes	yes	yes	L	M	H

FEICA UseR Foam Sealants

Code	Short ES title	Short description of process or activity all below 40 °C	Use descriptors							Life Cycle Stage(s)					
			Sector of use (SU)	Process Category (PROC)	Product category (PC)	Product Sub-category	Article Category (AC)	Article Sub-category	Environmental Release Category (ERC)	Manufacture	Formulation	end use			Service Life
												Industrial	Professional	Consumer	
FEICA-UseR 21-13	Consumer use of foam sealants	Consumer use of foam sealants, indoor	SU21	n.a.	PC1	B04	n.a.	n.a.	ERC8c					x	
FEICA-UseR 21-8	Consumer use of foam sealants	Consumer use of foam sealants, indoor	SU21	n.a.	PC1	B02	n.a.	n.a.	ERC8c					x	
xxx	Consumer use of foam sealants	Consumer use of foam sealants, outdoor	SU21	n.a.	PC1	B04	n.a.	n.a.	ERC8f					x	
FEICA-UseR 21-6	Consumer use of foam sealants	Consumer use of foam sealants, outdoor	SU21	n.a.	PC1	B02	n.a.	n.a.	ERC8f					x	
FEICA-UseR 22-10	Professional use of foam sealants	Professional indoor application of foam sealants outside industrial settings	SU22	PROC10	n.a.	n.a.	n.a.	n.a.	ERC8c				x		
FEICA-UseR 22-7	Professional use of foam sealants	Professional outdoor application of foam sealants outside industrial settings	SU22	PROC10	n.a.	n.a.	n.a.	n.a.	ERC8f				x		
FEICA-UseR 3-25	Industrial use of foam sealants	Use of foam sealants in industrial settings	SU3	PROC10	n.a.	n.a.	n.a.	n.a.	ERC5			x			

## 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	Calendaring 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