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Annex to the extended Safety Data Sheet (eSDS)

Version:1.0

Annex for 2-hydroxyethyl-methacrylate

Content

Exposure Scenario V.

Formulation & (re)packing of substances and mixtures

I.1 List of use descriptors

Sector(s) of Use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

Product categories [PC]:	not relevant.

Name of contributing environmental scenario and corresponding ERC:	

List of names of contributing worker scenarios and corresponding PROCs:	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC5: Mixing or blending in batch processes PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC15: Use as laboratory reagent

I.2.1 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC5: Mixing or blending in batch processes PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC15: Use as laboratory reagent

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to: 100%

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	not relevant

Amounts used

This information is not available.

Frequency and duration of use

	Use duration:	**Frequency of use:**	**Remarks**
Exposure time	> 4 h	5 days/week	

Human factors not influenced by risk management

Exposed skin surface	960 cm² PROC8b PROC8a
Exposed skin surface	480 cm² PROC9 PROC5 PROC2 PROC4
Exposed skin surface	240 cm² PROC1 PROC3 PROC15

Other given operational conditions affecting workers exposure

Area of use	room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.		not relevant.	PROC9, PROC 8b, PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC15

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See section 8 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

PROC9, PROC5, PROC2, PROC3, PROC4, PROC8a, PROC15:	Inhalation.: with local exhaust ventilation Effectiveness: 90 %.
PROC8b:	Inhalation.: with local exhaust ventilation Effectiveness: 95 %.

Conditions and measures related to personal protection, hygiene and health evaluation

PROC8b, PROC9, PROC5, PROC2, PROC3, PROC4, PROC8a, PROC15:	eye: Use suitable eye protection.
PROC1:	Worker - all relevant routes: If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes.
PROC8b, PROC9, PROC5, PROC4, PROC8a:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 95 %.
PROC2, PROC3, PROC15:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90 %.

See section 8 of the safety data sheet (Personal protection equipment)

I.3 Exposure estimation

Environment:

Health:

:

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	
Inhalation, systemic, long term	1,356 mg/m³	0,276662	EASY TRA	
Combined routes, systemic, long-term	0,8794 mg/kg bw/day	0,804135	EASY TRA	

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3429 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,7302 mg/kg bw/day	0,81706	EASY TRA	

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	
Inhalation, systemic, long term	1,898 mg/m³	0,387327	EASY TRA	
Combined routes, systemic, long-term	0,9568 mg/kg bw/day	0,914799	EASY TRA	

PROC1: Use in closed process, no likelihood of exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	0,0542 mg/m³	0,011066	EASY TRA	
Combined routes, systemic, long-term	0,0420 mg/kg bw/day	0,03744	EASY TRA	

PROC2: Use in closed, continuous process with occasional controlled exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,1371 mg/kg bw/day	0,105495	EASY TRA	
Inhalation, systemic, long term	0,5423 mg/m³	0,110665	EASY TRA	
Combined routes, systemic, long-term	0,2146 mg/kg bw/day	0,216159	EASY TRA	

PROC3: Use in closed batch process (synthesis or formulation):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0686 mg/kg bw/day	0,052747	EASY TRA	
Inhalation, systemic, long term	1,6276 mg/m³	0,331994	EASY TRA	
Combined routes, systemic, long-term	0,3010 mg/kg bw/day	0,384742	EASY TRA	

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3429 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,7119 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,7302 mg/kg bw/day	0,81706	EASY TRA	

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	

Inhalation, systemic, long term	1,627 mg/m³	0,331994	EASY TRA	
Combined routes, systemic, long-term	0,9181 mg/kg bw/day	0,859467	EASY TRA	

PROC15: Use as laboratory reagent:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,4216 mg/kg bw/day	0,579698	EASY TRA	

I.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

This information is not available.

Exposure Scenario VI.

End use as monomer in formulations

II.1 List of use descriptors

Sector(s) of Use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites

Product categories [PC]:	not relevant.

Name of contributing environmental scenario and corresponding ERC:	

List of names of contributing worker scenarios and corresponding PROCs:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC5: Mixing or blending in batch processes PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC10: Roller application or brushing

	PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation PROC12: use of blowing agents in manufacture of foam PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available

II.2.1 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC5: Mixing or blending in batch processes PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation PROC12: use of blowing agents in manufacture of foam PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product more than 25% (PROC 8B,9,5,1,2,3,4,8A,14,12,15) Covers percentage substance in the product up to 1% (PROC19). Covers percentage substance in the product 5-25 % (PROC10 indoors, 13). Covers percentage substance in the product 1-5% (PROC10 (outdoors))

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	not relevant

Amounts used

This information is not available.

Frequency and duration of use

	Use duration:	**Frequency of use:**	**Remarks**
Exposure time	> 4 h	5 days/week	PROC 8b, PROC9, PROC5, PROC1, PROC2, PROC4, PROC3, PROC8a, PROC13, PROC14, PROC12, PROC15
Exposure time	15 min	5 days/week	PROC10
Exposure time	15 min - 1 h	5 days/week	PROC19

Human factors not influenced by risk management

Exposed skin surface	960 cm² PROC8b PROC8a PROC10
Exposed skin surface	480 cm² PROC5 PROC2 PROC4 PROC13 PROC14 PROC9
Exposed skin surface	240 cm² PROC1 PROC3 PROC15 PROC12
Exposed skin surface	1980 cm² PROC19

Other given operational conditions affecting workers exposure

Area of use	**room size:**	**Temperature :**	**Ventilation rate**	**Remarks**
Indoor use	not relevant.		not relevant.	PROC 8b, PROC9, PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC13, PROC14, PROC12, PROC15, PROC19
Indoor and outdoor use.	not relevant.		not relevant.	PROC10

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See section 8 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

PROC5, PROC2, PROC3, PROC4, PROC8a, PROC13, PROC14, PROC12, PROC15, PROC9:	Inhalation.: with local exhaust ventilation Effectiveness: 90 %.
PROC8b:	Inhalation.: with local exhaust ventilation Effectiveness: 95 %.

Conditions and measures related to personal protection, hygiene and health evaluation

PROC8b, PROC9, PROC5, PROC2, PROC3, PROC4, PROC8a, PROC15, PROC10, PROC13, PROC19, PROC12, PROC14:	eye: Use suitable eye protection.
PROC1:	Worker - all relevant routes: If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes.
PROC8b, PROC5, PROC8a, PROC4, PROC10, PROC13, PROC19, PROC9:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 95 %.
PROC2, PROC3, PROC14, PROC12, PROC15:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90 %.

See section 8 of the safety data sheet (Personal protection equipment)

II.3 Exposure estimation

Environment:

Health:

:

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	
Inhalation, systemic, long term	1,356 mg/m³	0,276662	EASY TRA	
Combined routes, systemic, long-term	0,8793 mg/kg bw/day	0,804135	EASY TRA	

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3428 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,7302 mg/kg bw/day	0,81706	EASY TRA	

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	
Inhalation, systemic, long	1,898 mg/m³	0,387327	EASY TRA	

term				
Combined routes, systemic, long-term	0,9568 mg/kg bw/day	0,914799	EASY TRA	

PROC1: Use in closed process, no likelihood of exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	0,0542 mg/m³	0,011066	EASY TRA	
Combined routes, systemic, long-term	0,0420 mg/kg bw/day	0,03744	EASY TRA	

PROC2: Use in closed, continuous process with occasional controlled exposure:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,1371 mg/kg bw/day	0,105495	EASY TRA	
Inhalation, systemic, long term	0,5423 mg/m³	0,110665	EASY TRA	
Combined routes, systemic, long-term	0,2146 mg/kg bw/day	0,216159	EASY TRA	

PROC3: Use in closed batch process (synthesis or formulation):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0686 mg/kg bw/day	0,052747	EASY TRA	
Inhalation, systemic, long term	1,627 mg/m³	0,331994	EASY TRA	
Combined routes, systemic, long-term	0,3010 mg/kg bw/day	0,384742	EASY TRA	

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3429 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,7301 mg/kg bw/day	0,81706	EASY TRA	

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,527473	EASY TRA	
Inhalation, systemic, long term	1,627 mg/m³	0,331994	EASY TRA	
Combined routes, systemic, long-term	0,9181 mg/kg bw/day	0,859467	EASY TRA	

PROC15: Use as laboratory reagent:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,4216 mg/kg bw/day	0,579698	EASY TRA	

PROC10: Roller application or brushing:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,8229 mg/kg bw/day	0,632967	EASY TRA	
Inhalation, systemic, long term	0,9761 mg/m³	0,199197	EASY TRA	
Combined routes, systemic, long-term	0,9623 mg/kg bw/day	0,832164	EASY TRA	

PROC13: Treatment of articles by dipping and pouring:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,4114 mg/kg bw/day	0,316484	EASY TRA	
Inhalation, systemic, long term	3,254 mg/m³	0,663989	EASY TRA	
Combined routes, systemic, long-term	0,8762 mg/kg bw/day	0,980472	EASY TRA	

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3429 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,711 mg/m³	0,553324	EASY TRA	
Combined routes, systemic, long-term	0,7301 mg/kg bw/day	0,81706	EASY TRA	

PROC12: use of blowing agents in manufacture of foam:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	1,085 mg/m³	0,22133	EASY TRA	
Combined routes, systemic, long-term	0,1892 mg/kg bw/day	0,247703	EASY TRA	

PROC19: Hand-mixing with intimate contact and only PPE available:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,7071 mg/kg bw/day	0,543956	EASY TRA	
Inhalation, systemic, long term	0,3253 mg/m³	0,066399	EASY TRA	
Combined routes, systemic, long-term	0,7536 mg/kg bw/day	0,610355	EASY TRA	

II.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

This information is not available.

Exposure Scenario VII.

Professional end use in formulations

III.1 List of use descriptors

Sector(s) of Use	SU22: Professional uses: Public domain (administration,

	education, entertainment, services, craftsmen)

Product categories [PC]:	not relevant.

Name of contributing environmental scenario and corresponding ERC:	

List of names of contributing worker scenarios and corresponding PROCs:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC5: Mixing or blending in batch processes PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available

III.2.1 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC5: Mixing or blending in batch processes PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product more than 25% (PROC14, 15) Covers percentage substance in the product up to 5-25% (PROC8b,5,8a,13,9) Covers percentage substance in the product up to 1-5% (PROC10) Covers percentage substance in the product up to 1% (PROC19).

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	not relevant

Amounts used

This information is not available.

Frequency and duration of use

	Use duration:	**Frequency of use:**	**Remarks**
Exposure time	1 - 4 h	5 days/week	PROC 8b, PROC15, PROC9
Exposure time	15 min	5 days/week	PROC19, PROC8a
Exposure time	15 min - 1 h	5 days/week	PROC5, PROC10, PROC13, PROC14

Human factors not influenced by risk management

Exposed skin surface	960 cm² PROC8b PROC8a PROC10
Exposed skin surface	480 cm² PROC13 PROC14 PROC5 PROC9
Exposed skin surface	240 cm² PROC15
Exposed skin surface	1980 cm² PROC19

Other given operational conditions affecting workers exposure

Area of use	**room size:**	**Temperature :**	**Ventilation rate**	**Remarks**
Indoor use	not relevant.		not relevant.	PROC 8b, PROC9, PROC5, PROC13, PROC14, PROC8a, PROC15
Indoor and outdoor use.	not relevant.		not relevant.	PROC10, PROC19

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See section 8 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

PROC5, PROC8a, PROC13, PROC14, PROC15, PROC9:	Inhalation.: with local exhaust ventilation Effectiveness: 80 %.
PROC8b:	Inhalation.: with local exhaust ventilation Effectiveness: 90 %.

Conditions and measures related to personal protection, hygiene and health evaluation

PROC8b, PROC9, PROC5, PROC8a, PROC15, PROC10, PROC13, PROC19, PROC14:	eye: Use suitable eye protection.
PROC8b, PROC5, PROC8a, PROC10, PROC13, PROC9, PROC15, PROC14:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90 %.
PROC19:	dermal: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 95 %.

See section 8 of the safety data sheet (Personal protection equipment)

III.3 Exposure estimation

Environment:

Health:

:

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,8229 mg/kg bw/day	0,632967	EASY TRA	
Inhalation, systemic, long term	1,366 mg/m³	0,278875	EASY TRA	
Combined routes, systemic, long-term	1,018 mg/kg bw/day	0,911842	EASY TRA	

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing):

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,4114 mg/kg bw/day	0,316484	EASY TRA	
Inhalation, systemic, long term	2,733 mg/m³	0,557751	EASY TRA	
Combined routes, systemic, long-term	0,8019 mg/kg bw/day	0,874234	EASY TRA	

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,8229 mg/kg bw/day	0,632967	EASY TRA	
Inhalation, systemic, long term	0,9110 mg/m³	0,185917	EASY TRA	
Combined routes, systemic, long-term	0,9530 mg/kg bw/day	0,818884	EASY TRA	

PROC10: Roller application or brushing:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,5486 mg/kg bw/day	0,421978	EASY TRA	
Inhalation, systemic, long term	1,627 mg/m³	0,331994	EASY TRA	
Combined routes, systemic, long-term	0,7810 mg/kg bw/day	0,753972	EASY TRA	

PROC13: Treatment of articles by dipping and pouring:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,8229 mg/kg bw/day	0,632967	EASY TRA	
Inhalation, systemic, long term	1,301 mg/m³	0,265596	EASY TRA	
Combined routes, systemic, long-term	1,009 mg/kg bw/day	0,898563	EASY TRA	

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,3429 mg/kg bw/day	0,263736	EASY TRA	
Inhalation, systemic, long term	2,169 mg/m³	0,442659	EASY TRA	
Combined routes, systemic, long-term	0,6527 mg/kg bw/day	0,706395	EASY TRA	

PROC19: Hand-mixing with intimate contact and only PPE available:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,7071 mg/kg bw/day	0,543956	EASY TRA	
Inhalation, systemic, long term	0,4067 mg/m³	0,082999	EASY TRA	
Combined routes, systemic, long-term	0,7652 mg/kg bw/day	0,626955	EASY TRA	

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,8229 mg/kg bw/day	0,632967	EASY TRA	
Inhalation, systemic, long term	1,139 mg/m³	0,232396	EASY TRA	
Combined routes, systemic, long-term	0,9855 mg/kg bw/day	0,865363	EASY TRA	

PROC15: Use as laboratory reagent:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,026374	EASY TRA	
Inhalation, systemic, long term	3,254 mg/m³	0,663989	EASY TRA	
Combined routes, systemic, long-term	0,4991 mg/kg bw/day	0,690362	EASY TRA	

III.4 Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

This information is not available.

Exposure Scenario VIII.

Adhesives and sealants consumer use

IV.1 List of use descriptors

Sector(s) of Use	SU21: Consumer uses: Private households (= general public = consumers)

Product categories [PC]:	PC1: Adhesives, sealants

Name of contributing environmental scenario and corresponding ERC:	

List of names of contributing consumer scenarios and corresponding PC:	: PC1: Adhesives, sealants

IV.2.1 Contributing exposure scenario controlling consumer exposure

Product Categories:	PC1: Adhesives, sealants

Product characteristics

Concentration of the substance in a mixture:	10%

Physical form of the product:	not relevant
Vapour pressure:	not relevant
Process temperature:	not relevant
Application:	not relevant

Amounts used

This information is not available.

Frequency and duration of use

Risk management measures (RMM)

This information is not available.

IV.3Exposure estimation and reference to its source

Environment:

Health:

:

	Exposure level	RCR	Method	Remarks
Combined routes, systemic, long-term	0,0596 mg/kg bw/day	0,071747	EASY TRA	
Inhalation, systemic, long term	0,7353 mg/m³	0,25355	EASY TRA	
Dermal, systemic, long term	0,1267 mg/kg bw/day	0,325297	EASY TRA	

IV.4Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

This information is not available.