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Annex to the extended Safety Data Sheet (eSDS)

Version:2.0

Annex for ethyl 2-cyanoacrylate

Content

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Adhesives and sealants industrial use, Manufacture of substance

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:	ERC1: Manufacture of the substance	
List of names of contributing worker scenarios and corresponding PROCs:	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 PROC5: Mixing or blending in batch processes 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)	

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I.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]: ERC1: Manufacture of the substance

Product characteristics

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

Physical state not relevant

Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

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

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

I.2.2 Contributing exposure scenario controlling worker exposure

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

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Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
	1

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC1, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC1, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC1, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC1, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.3 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC2, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC2, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC2, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC2, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC3: Use in closed batch process (synthesis or formulation)
_	
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:	101,300000 kPa
Process temperature:	20.00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
_	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.5 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.6 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes	
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:	101,300000 kPa	
Process temperature:	20,00 °C	

Amounts used

Annual site tonnage	1.243.000 kg

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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min - 1.00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.7 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.2.8 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

I.3 Exposure estimation

Environment:

Adhesives and sealants industrial use, Manufacture of substance:

none			

Health:

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	0,0343 mg/kg	0,000034	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long	0,0052 mg/m ³	0,000595	ECETOC TRA	< 15 min
term				

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Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	0,0104 mg/m ³	0,00119	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,0313 mg/m ³	0,003571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,0343 mg/kg bw/day	0,000034	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,0052 mg/m ³	0,000595	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	< 15 min
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	< 15 min
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	1,042 mg/m³	0,119048	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,3125 mg/m ³	0,035714	ECETOC TRA	< 4 hours
Dermal, systemic, long term	1,371 mg/kg bw/day	0,001371	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,0521 mg/m ³	0,005952	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 15 min
Inhalation, systemic, long term	1,563 mg/m ³	0,178571	ECETOC TRA	< 15 min
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,9375 mg/m ³	0,107143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1563 mg/m ³	0,017857	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	6,857 mg/kg	0,006857	ECETOC TRA	< 15 min
term	bw/day			

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Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC5: Mixing or blending in batch processes:

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	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	13,714 mg/kg	0,013714	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

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Adhesives and sealants industrial use, Manufacture of substance:

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

weighing):

g,	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

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

For further information, please also consult the Internet site: Downstream Users https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach

Exposure Scenario II.

Adhesives and sealants industrial use, Formulation & (re)packing of substances and mixtures

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:	ERC2: Formulation into mixture (mixtures)
List of names of contributing worker scenarios and corresponding PROCs:	PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC5: Mixing or blending in batch processes 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)

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II.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]: ERC2: Formulation into mixture (mixtures)

Product characteristics

Concentration of the substance in a mixture: Covers percentage substance in the process.	uct up to 100 %.
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Physical state not relevant

Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

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

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

II.2.2 Contributing exposure scenario controlling worker exposure

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

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Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
	·· ···································

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC3, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC3, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.3 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC4, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC4, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.4 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes	
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:	101,300000 kPa	
Process temperature:	20.00 °C	

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.5 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.2.6 Contributing exposure scenario controlling worker exposure

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

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

II.3 Exposure estimation

Environment:

Adhesives and sealants industrial use, Formulation into mixture (mixtures):

none		
10110		

Health:

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	0,6857 mg/kg	0,000686	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long	1,563 mg/m ³	0,178571	ECETOC TRA	< 15 min
term				

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Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,9375 mg/m ³	0,107143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	0,6857 mg/kg bw/day	0,000686	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1563 mg/m ³	0,017857	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	13,714 mg/kg	0,013714	ECETOC TRA	< 15 min
term	bw/day			

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Inhalation, systemic, long term	2,604 mg/m³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

weighing):

weighnig).	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

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

For further information, please also consult the Internet site: Downstream Users https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach

Exposure Scenario III.

Adhesives and sealants industrial use, Industrial application of coatings and inks

III .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.
· · · · · · · · · · · · · · · · · · ·	THE THE TALL
Name of contributing environmental scenario and corresponding ERC:	ERC5: Industrial use resulting in inclusion into or onto a matrix

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List of names of contributing worker scenarios and corresponding PROCs:	PROC5: Mixing or blending in batch processes
3	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)
	PROC10: Roller application or brushing
	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation

III.2.1Contributing exposure scenario controlling environmental exposure

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical state	not relevant

Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

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

See chapter 8 of the safety data sheet (Environmental exposure controls).

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Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

III.2.2Contributing exposure scenario controlling worker exposure

Process Categories:	PROC5: Mixing or blending in batch processes
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Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

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Risk management measures (RMM)

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

See chapter 7 of the safety data sheet

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC5, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC5, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.3Contributing exposure scenario controlling worker exposure

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

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.	
Discould a second a s	I record	
Physical form of the product:	liquid	

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Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.4Contributing exposure scenario controlling worker exposure

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

Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC9, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC9, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.5Contributing exposure scenario controlling worker exposure

Process Categories:	PROC10: Roller application or brushing	
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:	101,300000 kPa	
Process temperature:	20,00 °C	

Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC10, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC10, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC10, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC10, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.2.6Contributing exposure scenario controlling worker exposure

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

Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Industrial, PROC14, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Industrial, PROC14, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Industrial, PROC14, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Industrial, PROC14, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

III.3 Exposure estimation

Environment:

Adhesives and sealants industrial use:

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Health:

Adhesives and sealants industrial use, Manufacture of substance:

PROC5: Mixing or blending in batch processes:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	13,714 mg/kg	0,013714	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
term				

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Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m ³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,2604 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	0,7813 mg/m ³	0,089286	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,1302 mg/m ³	0,014881	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use, Manufacture of substance:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 15 min
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	< 15 min
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,562 mg/m³	0,178571	ECETOC TRA	< 4 hours
Dermal, systemic, long term	6,857 mg/kg bw/day	0,006857	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,260 mg/m ³	0,029762	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use:

PROC10: Roller application or brushing:

•	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	27,429 mg/kg	0,027429	ECETOC TRA	< 15 min

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term	bw/day			
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10,417 mg/m³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

Adhesives and sealants industrial use:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 15 min
Inhalation, systemic, long term	5,208 mg/m ³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10.417 mg/m ³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

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

For further information, please also consult the Internet site: Downstream Users https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach

Exposure Scenario IV.

Adhesives and sealants professional use, Professional use

Sector(s) of use Su22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Product categories [PC]: not relevant. Rame of contributing environmental scenario and corresponding ERC: ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix

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	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix			
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			
	PROC10: Roller application or brushing			
	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation			
IV.2.1 Contributing exposure scenar	io controlling environmental exposure			
TVIZIT CONTINUATING EXPOSATE COORDINATION	io controlling on the office oxpocure			
Environmental Release Categories [ERC]:	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			
Product characteristics				
1 Toddot offdraotoffstios				
Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.			
Physical state	not relevant			
Amounts used				
This information is not available				
This information is not available.				
Frequency and duration of use				
Batch process:	not relevant			
Continuous process:	not relevant			
Environment factors not influenced by risk management				
Flow rate of receiving surface water (m³/d):	18.000			
Local freshwater dilution factor	10			
Local marine water dilution factor	100			
Other given operational conditions affecting environmental exposure				
Risk management measures (RMM)				

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

See chapter 8 of the safety data sheet (Environmental exposure controls).

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Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

Product characteristics

Physical state not relevant	Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.	
i ilyologi state	Physical state	not relevant	

Amounts used

This information is not available.

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	18.000
Local freshwater dilution factor	10
Local marine water dilution factor	100

Other given operational conditions affecting environmental exposure

Risk management measures (RMM)

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

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	No specific measures identified., Air emission will be precipitated through air humidity.
Soil	No specific measures identified.
Water	No specific measures identified., Due to the precipitation in water, no soluble parts will occur.
Sediment:	-
Remarks:	No data available Testing technically not feasible. In presence of moisture, ethyl 2-cyanoacrylate polymerizes within seconds.

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IV.2.2 Contributing exposure scenario controlling worker exposure

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

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 %.
Physical form of the product:	liquid
1 Hydrodi Torini or tho producti	114010

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

Amounts used

Annual site tonnage	1.243.000 kg

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.	
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Professional, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Professional, PROC8b, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC8b, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.2.3 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC10: Roller application or brushing	
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:	101,300000 kPa	

Amounts used

Process temperature:

Annual site tonnage	1.243.000 kg
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20,00 °C

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Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Professional, PROC10, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC10, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Professional, PROC10, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC10, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.2.4 Contributing exposure scenario controlling worker exposure

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

Product characteristics

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

Physical form of the product:	liquid
Vapour pressure:	101,300000 kPa
Process temperature:	20,00 °C

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Amounts used

Annual site tonnage	1.243.000 kg
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Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure duration	< 15,00 min		
Exposure duration	15,00 min -		
	1,00 h		
Exposure duration	< 4,00 h		
Exposure duration	> 4,00 h		

Human factors not influenced by risk management

exposed skin surface, Assumes that potential dermal contact is limited to fingertips.	Avoid using without gloves.
Occasionally eyelids are affected.:	Avoid direct eye contact with product, also via contamination on hands.

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	20,00 °C	not relevant.	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Risk management measures (RMM)

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

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

Professional, PROC14, < 15 min:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Good general ventilation (3-5 air changes per hour), Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, < 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented
Professional, PROC14, > 4 hours:	Worker - combined, long-term - systemic: with local exhaust ventilation, Assumes a good basic standard of occupational hygiene is implemented

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

Professional, PROC14, < 15 min:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, 15 min - 1 hour:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, < 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection is not necessary if room is well ventilated.
Professional, PROC14, > 4 hours:	Worker - combined, long-term - systemic: Wear suitable gloves (tested to EN374) and eye protection., Respiratory protection required., Suitable breathing mask or respirator with filter type: A (EN 14387) recommended. Effectiveness: 90,0 %.

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

Additional good practice advice beyond the REACH CSA

Assumes a good basic standard of occupational hygiene is implemented Use suitable eye protection and gloves. For further specification, refer to section 8 of the SDS.

IV.3Exposure estimation

Environment:

Adhesives and sealants professional use:

none

Adhesives and sealants professional use:

none

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Health:

Adhesives and sealants professional use, Professional use:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	13,714 mg/kg	0,013714	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long term	5,208 mg/m³	0,595238	ECETOC TRA	< 15 min
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	10,417 mg/m ³	1,190	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	3,125 mg/m ³	0,357143	ECETOC TRA	< 4 hours
Dermal, systemic, long term	13,714 mg/kg bw/day	0,013714	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	0,5208 mg/m ³	0,059524	ECETOC TRA	> 4 hours

Adhesives and sealants professional use, Professional use:

PROC10: Roller application or brushing:

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 15 min
Inhalation, systemic, long term	13,021 mg/m ³	1,488	ECETOC TRA	< 15 min
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	15 min - 1 hour
Inhalation, systemic, long term	26,042 mg/m ³	2,976	ECETOC TRA	15 min - 1 hour
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	15,625 mg/m ³	1,786	ECETOC TRA	< 4 hours
Dermal, systemic, long term	27,429 mg/kg bw/day	0,027429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	1,9 mg/m³	0,21	ART	1 hour Without local exhaust ventilation
Inhalation, systemic, long term	3,9 mg/m³	0,42	ART	4 hours with local exhaust ventilation

Adhesives and sealants professional use, Professional use:

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

	Exposure level	RCR	Method	Remarks
Dermal, systemic, long	141,429 mg/kg	0,141429	ECETOC TRA	< 15 min
term	bw/day			
Inhalation, systemic, long	13,021 mg/m³	1,488	ECETOC TRA	< 15 min
term				
Dermal, systemic, long	141,429 mg/kg	0,141429	ECETOC TRA	15 min - 1 hour
term	bw/day			
Inhalation, systemic, long	26,042 mg/m ³	2,976	ECETOC TRA	15 min - 1 hour
term	_			

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Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	15,625 mg/m ³	1,786	ECETOC TRA	< 4 hours
Inhalation, systemic, long term	1,9 mg/m³	0,21	ART	1 hour Without local exhaust ventilation
Inhalation, systemic, long term	3,9 mg/m³	0,42	ART	4 hours with local exhaust ventilation
Dermal, systemic, long term	141,429 mg/kg bw/day	0,141429	ECETOC TRA	> 4 hours
Inhalation, systemic, long term	2,604 mg/m ³	0,297619	ECETOC TRA	> 4 hours

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

For further information, please also consult the Internet site: Downstream Users https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach

Exposure Scenario VI.

Adhesives and sealants consumer use

V .1 List of use descriptors	
Sector(s) of use	SU21: Consumer uses: Private households (= general public = consumers)
Duradicat actamonica (DC).	DC4. Adhasii sa asalanta
Product categories [PC]:	PC1: Adhesives, sealants
Name of contributing environmental scenario and corresponding ERC:	Adhesives and sealants consumer use: 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
List of names of contributing consumer scenarios and corresponding PC:	Adhesives and sealants consumer use: PC1: Adhesives, sealants

V.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	Adhesives and sealants consumer use: 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

V.3 Exposure estimation and reference to its source

Environment:

Adhesives and sealants consumer use:

none

Adhesives and sealants consumer use:

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Health:

none

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

For further information, please also consult the Internet site: Downstream Users https://www.echa.europa.eu/web/guest/guidance-documents/guidance-on-reach