

## Annex to the extended Safety Data Sheet (eSDS)

Version:1.1

### Annex for Ethyl 2-cyanoacrylate

#### Content

Exposure Scenario 1)	Adhesives and sealants industrial use
Exposure Scenario 2)	Adhesives and sealants professional use

### Exposure Scenario III.

#### Adhesives and sealants industrial use

##### I.1 List of use descriptors

Sector(s) of Use	
	<p>SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites</p> <p>SU4: Manufacture of food products</p> <p>SU5: Manufacture of textiles, leather, fur</p> <p>SU6a: Manufacture of wood and wood products</p> <p>SU6b: Manufacture of pulp, paper and paper products</p> <p>SU7: Printing and reproduction of recorded media</p> <p>SU9: Manufacture of fine chemicals</p> <p>SU11: Manufacture of rubber products</p> <p>SU12: Manufacture of plastics products, including compounding and conversion</p> <p>SU15: Manufacture of fabricated metal products, except machinery and equipment</p> <p>SU16: Manufacture of computer, electronic and optical products, electrical equipment</p> <p>SU17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment</p> <p>SU18: Manufacture of furniture</p> <p>SU19: Building and construction work</p> <p>SU20: Health services</p>

<b>Product categories [PC]:</b>	not relevant.
<b>Name of contributing environmental scenario and corresponding ERC:</b>	ERC5: Industrial use resulting in inclusion into or onto a matrix
<b>List of names of contributing worker scenarios and corresponding PROCs:</b>	<p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC5: Mixing or blending in batch processes</p> <p>PROC7: Industrial spraying</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</p> <p>PROC10: Roller application or brushing</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p>

### **I.2.1 Contributing exposure scenario controlling environmental exposure**

<b>Environmental Release Categories [ERC]:</b>	ERC5: Industrial use resulting in inclusion into or onto a matrix
Not applicable	

### I.2.2 Contributing exposure scenario controlling worker exposure

<b>Process Categories:</b>	<p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC5: Mixing or blending in batch processes</p> <p>PROC7: Industrial spraying</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</p> <p>PROC10: Roller application or brushing</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p>
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#### Product characteristics

<b>Concentration of the substance in a mixture:</b>	Covers percentage substance in the product up to 100 % (unless stated differently).
<b>Physical form of the product:</b>	liquid
<b>Vapour pressure:</b>	< 21 Pa
<b>Process temperature:</b>	21 °C

#### Amounts used

not relevant
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#### Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Hours per shift	0,25 - 8 h	daily	

#### Other given operational conditions affecting workers exposure

Area of use	room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	21 °C	not relevant.	

**Risk management measures (RMM)****Technical conditions and measures at process level (source) to prevent release**

See section 8 of the safety data sheet

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

Industrial:	with local exhaust ventilation Effectiveness: 90 %.
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**Conditions and measures related to personal protection, hygiene and health evaluation**

Industrial:	Wear face protective shield. Effectiveness: 75 %.
	Wear suitable gloves. Effectiveness: 90 %.
	Self-contained respirator (breathing apparatus) (DIN EN 133) Effectiveness: 90 %.

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

**I.3 Exposure estimation****Environment:**

none

**Health:****Adhesives and sealants industrial use:****PROC2: Use in closed, continuous process with occasional controlled exposure:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,008	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,135	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

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

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,018	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,361	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

**PROC5: Mixing or blending in batch processes:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,031	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,753	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

**PROC7: Industrial spraying:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,323	ECETOC TRA	> 4 hours with local exhaust ventilation

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

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,061	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,753	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

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

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,0017	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,675	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

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

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,038	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,675	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

**PROC10: Roller application or brushing:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,075	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,911	ECETOC TRA	15 min Without local exhaust ventilation

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

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,034	ECETOC TRA	> 4 hours with local exhaust ventilation
inhalation	< 1,8 ppm	0,63	ECETOC TRA	15 min - 1 hour Without local exhaust ventilation

**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://echa.europa.eu/support/guidance>

**Exposure Scenario IV.****Adhesives and sealants professional use****II.1 List of use descriptors**

<b>Sector(s) of Use</b>	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  SU19: Building and construction work
<b>Product categories [PC]:</b>	not relevant.

<b>Name of contributing environmental scenario and corresponding ERC:</b>	<p>ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p> <p>ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p>
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<b>List of names of contributing worker scenarios and corresponding PROCs:</b>	<p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC10: Roller application or brushing</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p>
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### II.2.1 Contributing exposure scenario controlling environmental exposure

<b>Environmental Release Categories [ERC]:</b>	<p>ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p> <p>ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p>
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Not applicable

### II.2.2 Contributing exposure scenario controlling worker exposure

<b>Process Categories:</b>	<p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC10: Roller application or brushing</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p>
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### Product characteristics

<b>Concentration of the substance in a mixture:</b>	Covers percentage substance in the product up to 100 % (unless stated differently).
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<b>Physical form of the product:</b>	liquid
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<b>Vapour pressure:</b>	< 21 Pa
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<b>Process temperature:</b>	21 °C
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### Amounts used

not relevant

**Frequency and duration of use**

	Use duration:	Frequency of use:	Remarks
Hours per shift	0,25 - 8 h	daily	

**Other given operational conditions affecting workers exposure**

Area of use	room size:	Temperature :	Ventilation rate	Remarks
Indoor use	not relevant.	21 °C	not relevant.	

**Risk management measures (RMM)****Technical conditions and measures at process level (source) to prevent release**

See section 8 of the safety data sheet

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

Professional:	with local exhaust ventilation Effectiveness: 80 %.
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**Conditions and measures related to personal protection, hygiene and health evaluation**

Professional:	Wear face protective shield. Effectiveness: 75 %.
	Wear suitable gloves. Effectiveness: 90 %.
	Self-contained respirator (breathing apparatus) (DIN EN 133) Effectiveness: 90 %.

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

**II.3 Exposure estimation****Environment:**

none

**Health:****Adhesives and sealants professional use:****PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,51	ECETOC TRA	15 min - 1 hour with local exhaust ventilation

**PROC10: Roller application or brushing:**

	Exposure level		Method	Remarks
inhalation	< 1,8 ppm	0,04	ECETOC TRA	> 4 hours with local exhaust ventilation

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

	<b>Exposure level</b>		<b>Method</b>	<b>Remarks</b>
inhalation	< 1,8 ppm	0,16	ECETOC TRA	> 4 hours with local exhaust ventilation

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

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<https://echa.europa.eu/support/guidance>