SDS No. : 470833
Revision: 05.08.2019
printing date: 09.05.2020

Annex to the extended Safety Data Sheet (eSDS)

Version:1.1

Annex for Ethyl 2-cyanoacrylate

Content

Exposure Scenario III.

Adhesives and sealants industrial use

I.1 List of use descriptors

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

Product categories [PC]:	not relevant.

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

List of names of contributing worker scenarios and corresponding PROCs:	PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or 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

I.2.1 Contributing exposure scenario controlling environmental exposure

Environmental Release Categories [ERC]:	ERC5: Industrial use resulting in inclusion into or onto a matrix

Not applicable

I.2.2 Contributing exposure scenario controlling worker exposure

Process Categories:	PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or 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

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 % (unless stated differently).

Physical form of the product:	liquid
Vapour pressure:	< 21 Pa
Process temperature:	21 °C

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

Industrial:	with local exhaust ventilation Effectiveness: 90 %.

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	RCR	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	RCR	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	RCR	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	RCR	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	RCR	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	RCR	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	RCR	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	RCR	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 tabletting, compression, extrusion, pelettisation:

	Exposure level	RCR	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

Sector(s) of Use	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU19: Building and construction work

Product categories [PC]:	not relevant.

Name of contributing environmental scenario and corresponding 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

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

II.2.1 Contributing exposure scenario controlling environmental exposure

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

Not applicable

II.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 PROC10: Roller application or brushing PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation

Product characteristics

Concentration of the substance in a mixture:	Covers percentage substance in the product up to 100 % (unless stated differently).

Physical form of the product:	liquid
Vapour pressure:	< 21 Pa
Process temperature:	21 °C

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 %.

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

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

	Exposure level	RCR	Method	Remarks
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

For further information, please also consult the Internet site: Downstream Users
https://echa.europa.eu/support/guidance