

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

Version:1.1

### Annex for Ethyl 2-cyanoacrylate

#### Content

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| 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> |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 |
|--------------|

### 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<br>Effectiveness: 90 %. |
|-------------|--------------------------------------------------------|

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

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

### 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> |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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> |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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

**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<br>Effectiveness: 80 %. |
|---------------|--------------------------------------------------------|

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

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

|            | Exposure level |      | 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**

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