

This appendix refers to the EPD MD-23177-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment. Dyrups Undercoat products had a standard deviation of more than 10% and as such these results will present the results of the worse performing product, DU\_000.

| ENVIRONMENTAL IMPACTS PER Declared unit: 1L |   |          |          |          |          |          |           |
|---|---|----------|----------|----------|----------|----------|-----------|
| Parameter                                   | Unit  | A1-A3    | C1       | C2       | C3       | C4       | D         |
| GWP   | [kg CO <sub>2</sub> -eq.]   | 2,27E+00 | 0,00E+00 | 9,70E-03 | 6,18E-01 | 0,00E+00 | -3,17E-01 |
| ODP   | [kg CFC11-eq.]  | 2,99E-07 | 0,00E+00 | 1,44E-15 | 2,86E-13 | 0,00E+00 | -1,53E-12 |
| AP  | [kg SO <sub>2</sub> -eq.]   | 1,05E-02 | 0,00E+00 | 3,27E-05 | 1,10E-04 | 0,00E+00 | -1,78E-04 |
| EP  | [kg PO <sub>4</sub> <sup>3-</sup> -eq.]   | 5,99E-03 | 0,00E+00 | 4,44E-06 | 2,66E-05 | 0,00E+00 | -3,74E-05 |
| POCP  | [kg ethene-eq.]   | 2,10E-03 | 0,00E+00 | 3,36E-07 | 8,88E-06 | 0,00E+00 | -2,22E-05 |
| ADPE  | [kg Sb-eq.]   | 1,68E-05 | 0,00E+00 | 6,01E-10 | 3,03E-09 | 0,00E+00 | -2,17E-08 |
| ADPF  | [MJ]  | 4,01E+01 | 0,00E+00 | 1,31E-01 | 3,67E-01 | 0,00E+00 | -4,97E+00 |
| Caption                                     | GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources |          |          |          |          |          |           |
|   | The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |           |

| RESOURCE USE PER Declared unit: 1L |   |          |          |          |          |          |           |
|------------------------------------|---|----------|----------|----------|----------|----------|-----------|
| Parameter                          | Unit  | A1-A3    | C1       | C2       | C3       | C4       | D         |
| PERE                               | [MJ]  | 9,65E+00 | 0,00E+00 | 8,95E-03 | 1,98E-01 | 0,00E+00 | -1,82E+00 |
| PERM                               | [MJ]  | 6,32E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                               | [MJ]  | 1,03E+01 | 0,00E+00 | 8,95E-03 | 1,98E-01 | 0,00E+00 | -1,82E+00 |
| PENRE                              | [MJ]  | 4,04E+01 | 0,00E+00 | 1,33E-01 | 4,06E-01 | 0,00E+00 | -5,18E+00 |
| PENRM                              | [MJ]  | 4,75E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                              | [MJ]  | 4,52E+01 | 0,00E+00 | 1,33E-01 | 4,06E-01 | 0,00E+00 | -5,18E+00 |
| SM                                 | [kg]  | 4,82E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                | [MJ]  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                               | [MJ]  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                 | [m <sup>3</sup> ]   | 3,11E-02 | 0,00E+00 | 9,81E-06 | 2,82E-03 | 0,00E+00 | -5,29E-04 |
| Caption                            | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water |          |          |          |          |          |           |
|                                    | The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |           |

| WASTE CATEGORIES AND OUTPUT FLOWS PER Declared unit: 1L |   |          |          |          |           |          |           |
|---|---|----------|----------|----------|-----------|----------|-----------|
| Parameter   | Unit  | A1-A3    | C1       | C2       | C3        | C4       | D         |
| HWD   | [kg]  | 1,86E-05 | 0,00E+00 | 4,13E-13 | -4,50E-11 | 0,00E+00 | 3,26E-10  |
| NHWD  | [kg]  | 4,32E-02 | 0,00E+00 | 1,97E-05 | 7,78E-02  | 0,00E+00 | -3,46E-03 |
| RWD   | [kg]  | 6,03E-04 | 0,00E+00 | 2,42E-07 | 1,28E-05  | 0,00E+00 | -7,28E-05 |
| CRU   | [kg]  | 5,60E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |
| MFR   | [kg]  | 2,16E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |
| MER   | [kg]  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |
| EEE   | [MJ]  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 8,78E-01  |
| EET   | [MJ]  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 4,33E+00  |
| Caption   | HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy |          |          |          |           |          |           |
|   | The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |           |          |           |

Checked and approved by



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