|  |  |
| --- | --- |
| **Annex 4 to the contract**  **pursuant to DE-UZ 195** | **Please only use**  **this form!** |

**Environmental label for "Printed Matter"**

|  |  |
| --- | --- |
| **Manufacturer:**  (full address) |  |
| **Contact for any questions:** |  |
| **E-mail address:** |  |
| **Telephone:** |  |
| **Trade name of the product:**  (Please always provide all article numbers, product codes, colour tones and similar if available) |  |

**Declaration from the chemical manufacturers/suppliers**

**The above-named product is a:**

|  |  |  |  |
| --- | --- | --- | --- |
| Printing ink |  | Dampening solution |  |
| Printing ink additive |  | Dampening solution additive |  |
| Dye |  | Varnish |  |
| Ink |  | Coating agent |  |
| Toner |  | Lamination agent |  |
| Wetting agent |  | Solvent |  |
| Adhesive |  | Detergent/cleaning agent |  |
| PUR adhesive |  | Rubber blanket regenerating agent |  |
| Hot melt adhesive |  | Other: |  |

**General questions:**

**• VOC content** (please always complete!)

|  |  |
| --- | --- |
| **VOC content[[1]](#footnote-1):** | **%** |

If there are no VOC, please enter **0** or **-**.

**• Flash point** (please complete if the above-named product is a **detergent/cleaning agent** or a **rubber blanket regeneration agent**!)

|  |  |
| --- | --- |
| **Flash point:** | **°C** |

**or**

|  |  |
| --- | --- |
|  | It is an aqueous solution and thus no flash point can be determined. |

**• Diisobutyl phthalate (DIBP)** (please complete for all types of **adhesive**!)

|  |  |  |
| --- | --- | --- |
| Does the above-named product contain diisobutyl phthalate (DIBP)? | **YES** | **NO** |

**3.2.3 Use of adhesives - PUR adhesives** (please only complete if the above-named product is a **PUR adhesive**!)

We hereby confirm that our above-named product complies with the following requirements:

|  |  |
| --- | --- |
| • The PUR adhesive is not labelled with any of the hazard statements (H Phrases) listed in Paragraph 3.5. |  |
| • The processing temperature for the adhesive is between 100-130°C. |  |
| • The monomeric MDI content is < 0.1%. |  |

**3.4 Recyclability**

|  |  |  |  |
| --- | --- | --- | --- |
| **For all adhesives:** | The above-named adhesive is water-soluble. | **YES** | **NO** |
| The above-named adhesive is redispersible. | **YES** | **NO** |
|  | The above-named adhesive is thermoplastic. | **YES** | **NO** |
|  | The above-named adhesive is reactive. | **YES** | **NO** |
|  | Softening temperature, if relevant:  If it is not possible to enter the softening temperature, please enter “0” or “-”. |  |  |

**3.5 Requirements for all substances and mixtures added to the printed matter** (please always complete!)

**Part A**

|  |  |  |
| --- | --- | --- |
| Is the above-named product labelled with the hazard statements or risk phrases listed in Paragraph 3.5? | **YES** | **NO** |

These are:

* H300, H301, H304, H310, H311, H317, H330, H334, H331, H340, H341, H350, H350i, H351, H360F, H360D, H360FD, H360Fd, H360Df, H361f, H361d, H361fd, H362, H370, H371, H372, H373, H400, H410, H411, H412, H413, H420, EUH029, EUH031, EUH032, EUH070

If **YES**, with which?

**Part B**

|  |  |  |
| --- | --- | --- |
| Is the above-named product classified as carcinogenic, mutagenic or reprotoxic in the currently valid version of TRGS 905? | **YES** | **NO** |
|  |  |  |

**Part C**

|  |  |  |
| --- | --- | --- |
| Does the above-named product contain any substances of very high concern (SVHC) that have been added to the so-called “list of candidates” according to Article 59, Paragraph 1 of the REACH regulation (EC/1907/2006)? | **YES** | **NO** |

**3.6 Requirements for biocidal products and biocidal substances** (please always complete this section!)

|  |  |  |
| --- | --- | --- |
| Does the above-named product contain any biocidal substances? | **YES** | **NO** |
| If **YES**,   * and the substance is an **in-can preservative** (Product-type 6) which is approved for use as product-type 6 according to Regulation (EU) No. 528/2012 of the European Parliament and of the Council or approval for use as product-type 6 according to Regulation (EU) No. 528/2012 is being assessed and still pending. |  |  |
| * and the substance is a **preservative for liquid-cooling and processing systems** (Product-type 11) which is approved for use as product-type 11 according to Regulation (EU) No. 528/2012 of the European Parliament and of the Council or approval for use as product-type 11 according to Regulation (EU) No. 528/2012 is being assessed and still pending. |  |  |
| The above-named product is labelled with a hazard statement listed in Paragraph 3.5 due to the biocidal substance?  If **YES**, with which? | **YES** | **NO** |

The following biocidal substances are added in the stated quantities to the above-named product:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of the biocidal substance** | **CAS number** | **H Phrases** | **Amount in the product (% by mass)** | **Log POW** | **BCF** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**3.7.1 Certified renewable raw materials**

**3.7.2 Raw materials made of non-genetically modified substances**

(please only complete if the above-named product is a **printing ink, varnish, solvent** or **detergent/cleaning agent**!)

|  |  |  |
| --- | --- | --- |
| Are renewable raw materials or raw materials based on renewable resources used to produce the above-named product? | **YES** | **NO** |

If **YES**:

The following renewable raw materials are added in the stated quantities to the above-named product:

| **Renewable raw material**  (Vegetable oil, its derivatives or modified vegetable oils) | **Proportion in the product**  [%] |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

The renewable raw materials added to the product are certified in accordance with the following certification systems:

| **Renewable raw material** | **Certified according to** |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**or**

|  |
| --- |
| Certification is currently not available because[[2]](#footnote-2)      . |

We also hereby confirm that the above-named product complies with the following requirements:

|  |  |
| --- | --- |
| The renewable raw materials are not sourced from genetically modified plants. |  |
| The renewable raw materials were cultivated in accordance with recognised sustainability criteria. |  |

**or**

|  |
| --- |
| Verification cannot currently be provided because2      . |

**3.8 Requirements for dyes, toners, printing inks and varnishes** (please only complete if the above-named product is a **printing ink, varnish, dye** or **toner**!)

The following Paragraphs 3.8.2. - 3.8.6 relate to the entire colour system, meaning the ready-for-use dyes, toners, printing inks and varnishes ("ready for printing").

**3.8.2 Heavy metals** (in printing inks, dyes, toners and varnishes)

|  |  |  |
| --- | --- | --- |
| We hereby confirm that our above-named product complies with the following requirements: |  |  |
| The above-named product does **not** contain the substances or their compounds listed in column 1 as constituent ingredients. |  |  |

The concentrations of process-related, technically unavoidable impurities or natural impurities does not exceed the value stated in column 2:

|  |  |  |
| --- | --- | --- |
| *Heavy metal* | *Impurity in the supplied product* |  |
| **Cadmium** |  | **%** |
| **Copper (except copper phthalocyanine)** |  | **%** |
| **Lead** |  | **%** |
| **Nickel** |  | **%** |
| **Chromium (VI)** |  | **%** |
| **Mercury** |  | **%** |
| **Cobalt** |  | **%** |

**3.8.3 Additional requirements for manganese compounds**

We hereby confirm that our above-named product complies with the following requirements:

|  |  |
| --- | --- |
| The proportion of manganese added in the form of manganese compounds as a constituent component for the production of the supplied product does not exceed a maximum of 0.5% by mass (calculated as manganese in the supplied product). |  |

**3.8.4 Azo dyes and pigments in colourants**

|  |  |  |  |
| --- | --- | --- | --- |
| Are azo dyes used in the above-named product? | **YES** | | **NO** |
| Can the colourant used in the product cleave into one or more of the following amines? | **YES** | | **NO** |
| **Substance** | | **CAS number** | |
| benzidine | | 92-87-5 | |
| 4-chloro-o-toluidine | | 95-69-2 | |
| 2-naphthylamine | | 91-59-8 | |
| o-aminoazotoluene / 4-amino-2',3-dimethylazobenzene / 4-o-tolylazo-o-toluidine | | 97-56-3 | |
| 5-nitro-o-toluidine | | 99-55-8 | |
| 4-chloroaniline | | 106-47-8 | |
| 4-methoxy-m-phenylenediamine | | 615-05-4 | |
| 4,4'-methylenedianiline / 4,4'-diaminodiphenylmethane | | 101-77-9 | |
| 3,3'-dichlorobenzidine / 3,3'-dichlorobiphenyl-4,4'-ylenediamine | | 91-94-1 | |
| 3,3'-dimethoxybenzidine / o-dianisidine | | 119-90-4 | |
| 3,3'-dimethylbenzidine / 4,4'-bi-o-toluidine | | 119-93-7 | |
| 4,4'-methylenedi-o-toluidine | | 838-88-0 | |
| 6-methoxy-m-toluidine / p-cresidine | | 120-71-8 | |
| 4,4'-methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'-methylene-dianiline | | 101-14-4 | |
| 4,4'-oxydianiline | | 101-80-4 | |
| 4,4'-thiodianiline | | 139-65-1 | |
| o-toluidine / 2-aminotoluene | | 95-53-4 | |
| 4-methyl-m-phenylenediamine | | 95-80-7 | |
| 2,4,5-trimethylaniline | | 137-17-7 | |
| o-anisidine / 2-methoxyaniline | | 90-04-0 | |
| 4-amino azobenzene | | 60-09-3 | |
| 4-Amino-3-fluorophenol\* | | 399-95-1 | |
| 6-Amino-2-ethoxynaphthalene\* | | - | |

\* Azo dyes that break down into these amines are not known. Analytical proof is not required here.

If **YES**, which?

|  |  |  |
| --- | --- | --- |
| The proportion of primary aromatic amines in the azo dyes or pigments does not exceed 0.05%. | **YES** | **NO** |

**3.8.5 Hydrocarbons in printing inks and varnishes in the offset printing process[[3]](#footnote-3)**

**Part A**

|  |  |  |
| --- | --- | --- |
| Are aliphatic hydrocarbons added to the above-named product during its production? | **YES** | **NO** |

If **YES**:

|  |  |  |
| --- | --- | --- |
| **Only** those aliphatic hydrocarbons with a chain length of C10 to C20 are used. | **YES** | **NO** |

If **NO**:

|  |  |  |  |
| --- | --- | --- | --- |
| High-molecular weight aliphatic hydrocarbons with a chain length above C20 are **also** added. | |  | |
| These chain lengths above 20 are **exclusively** sourced from the following hydrocarbons without solvent properties:  **Microcrystalline waxes, vaseline, polyolefin waxes, paraffin waxes or Fischer-Tropsch waxes** | **YES** | | **NO**[[4]](#footnote-4) |

If **YES**:

|  |  |
| --- | --- |
| The high-molecular weight aliphatic hydrocarbons have a chain length of > C35. |  |
| The proportion of aliphatic hydrocarbons with a chain length of between C20 and C35 does not exceed a maximum of 5%. |  |

**Part B**

|  |  |  |
| --- | --- | --- |
| Are aromatic hydrocarbons added to the above-named product during its production? | **YES** | **NO** |

If **YES**:

|  |  |
| --- | --- |
| The proportion of aromatic hydrocarbons from mineral oil in the constituent ingredients of printing inks and varnishes for **sheet-fed offset printing, LED UV web offset printing** and **coldset web offset printing** is less than 0.1% by mass. |  |
| The proportion of aromatic hydrocarbons from mineral oil in the constituent ingredients of printing inks and varnishes for **heatset web offset printing** is less than 1% by mass. |  |

**Part C**

|  |  |
| --- | --- |
| None of the following PAHs exceed a value of 0.2 mg/kg in the printing ink or varnish: Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysen, Dibenzo[a,h]anthrancene, Benzo[g,h,i]perylene, Indeno[1,2,3-cd]pyrene. |  |
| The sum of all PAHs in the printing ink or varnish does not exceed 1 mg/kg. |  |

**3.8.6 Per- and Polyfluoroalkyl substances (PFAS) in printing inks and varnishes**

|  |  |
| --- | --- |
| Noper- and polyfluoroalkyl substances (PFAS) have been added to the printing inks and varnishes. |  |

**3.9.1 Adhesives, cleaning agents, rubber blanket regeneration agents and other auxiliary printing substances in offset printing processes** (to be completed by all those manufactures who produce chemicals for offset printing except for manufacturers of products already covered under Paragraph 3.8)

We hereby confirm that our above-named product complies with the following requirements:

|  |  |  |
| --- | --- | --- |
| The proportion of toluene, xylene and other aromatic hydrocarbons with a carbon number of more than C9 is below 1% by mass.  The proportion is:       %. |  |  |
| The proportion of benzene is below 0.1% by mass.  The proportion is:       %. |  |  |
| Halogenated hydrocarbons, terpenes, n-hexanes, secondary armines and amides are **not** used. |  |  |

**Please attach current safety data sheets according to Regulation (EC) No. 1907/2006 with the classification according to Regulation (EC) No. 1272/2008. The safety data sheets may not be older than 2 years.**

**Notes:**

|  |
| --- |
|  |

If you have any questions, please contact: RAL gGmbH Environmental Labels, Tel.: +49 (0)228 68895-190, E-mail: [umweltzeichen@ral.de](mailto:umweltzeichen@ral.de), Subject: DE-UZ 195, Annex 4

|  |  |  |  |
| --- | --- | --- | --- |
| **Location:** |  |  |  |
|  |  |  |
| **Date:** |  |  |

**Legally binding signature / company stamp**

1. VOC: an organic compound, as well as the fraction of creosote, that has a vapour pressure of 0.01 kPa or more at 293.15 K or has a corresponding volatility under the particular conditions of use (e.g. afterburner in headset offset printing). [↑](#footnote-ref-1)
2. If it is not possible to provide verification that the renewable raw materials were cultivated in accordance with recognised sustainability criteria, it is permissible up to 31/12/2024 to submit a plausible justification. [↑](#footnote-ref-2)
3. For coldset web offset printing in companies without a dual colour supply system, this requirement is only obligatory from 01/01/2023. For all other offset printing processes, these requirements are already obligatory. [↑](#footnote-ref-3)
4. If other hydrocarbons than those named here are used, it is not permitted to use the product for DE-UZ 195 in accordance with the Basic Award Criteria. Nevertheless, please enter the name of the hydrocarbon in the field “Notes”. [↑](#footnote-ref-4)