## **COURTESY TRANSLATION**

# Twenty-First Ordinance amending the Consumer Goods Ordinance (Bedarfsgegenständeverordnung)\*)

of ... 2016

The Federal Ministry of Food and Agriculture hereby issues on the following basis:

- Article 31(2) Clause 1 Item 2, Food and Feed Act (LFGB), in the version stated in the Notice of 3 June 2013 (Federal Law Gazette I, p. 1426) and
- Article 32(1) Items 1, 2, 4 b) and Item 5, also in connection with Article 4(2) Item 2 of the Food and Feed Act (LFGB), in the version stated in the Notice of 3 June 2013 (Federal Law Gazette I, p. 1426), last amended by means of Article 67 of the Ordinance of 31 August 2015 (Federal Law Gazette I, p. 1474), in agreement with the Federal Ministry for Economic Affairs and Energy:

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<sup>\*</sup> Notification given in accordance with Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services (Official Journal of the European Union, L 241, 17.9.2015, p.1)

#### Article 1

The Consumer Goods Ordinance in the version stated in the Notice of 23 December 1997 (Federal Law Gazette 1998 I, p. 5), last amended by means of the Ordinance of 24 June 2013 (Federal Law Gazette I, p. 1682), shall be amended as follows:

- 1. Article 2 shall be amended as follows:
  - a) The wording hitherto in use shall be amended as follows:
    - In Item 6, the full stop shall be replaced by a semi-colon. aa)
    - bb) The following Items, 7 to 12, shall be added:
      - "7. Printing inks: Printing inks or printing varnishes, applied onto food contact materials and articles in a printing process or varnishing process;
      - 8. printed food contact materials and articles: food contact materials and articles produced by means of use of printing inks;
      - 9. Nanomaterials: Materials in printing inks,
        - a) which are of natural origin and either emerge in manufacturing processes or are manufactured in a targeted way,
        - b) which contain the particles in an unbound state, as an aggregate, or as an agglomerate, and
        - c) with regard to which at least 50 per cent of the particles, in relation to the number size distribution, have one or more external dimension in the range from 1 to 100 nanometres;
      - 10. Particle: a very small piece of a substance, with defined physical boundaries;
      - 11. Agglomerate: a collection of weakly bound particles or aggregates in which the resulting surface area is similar to the sum of the surface areas of the in-12. Aggregate: a particle comprising of strongly bound or fused particles." ct. 000 group of the comprising of strongly bound or fused particles." ct. 000 group of the comprising of strongly bound or fused particles." ct. 000 group of the comprising of strongly bound or fused particles." ct. 000 group of the comprising of strongly bound or fused particles." ct. 000 group of the comprising of strongly bound or fused particles." ct. 000 group of the comprising of the comprising of strongly bound or fused particles.

### b) The following sentences shall be added:

"Preparations used to dye food contact materials and articles and also decorative inks for ceramic food contact materials and articles, applied in a combustion process, shall not constitute printing inks as defined by Clause 1 Item 7. Fullerenes, graphene flakes and single wall carbon nanotubes with one or more external dimensions below 1 nm shall also constitute nanomaterials as defined by Clause 1 Item 9."

- 2. The following Paragraphs, 5 to 10, shall be added to Article 4:
- "(5) With regard to the commercial manufacture of printed food contact materials and articles, subject to Paragraphs 7 to 9, it is solely
- 1. Polymers obtained from monomers or other starting substances stated in Annex 14 Table 1 and
- 2. the substances stated in Annex 14 Table 1, as monomers or other starting substances, or as colourants, solvents, photoinitiators or other additives that shall be permitted to be used.

The substances shall be permitted to be used only if they correspond to the other restrictions, specifications and purity requirements established in Annex 14 Table 1 Column 8. If no purity requirements are stipulated, the substances shall be of good technical quality with regard to the purity requirements. Substances in the form of nanomaterials shall not be permitted to be used unless explicit provision is made for this in Annex 14 Table 1 Column 8. Apart from the acids, phenols and alcohols named in Annex 14 Table 1, it shall also be permitted for their salts to be used, including the double salts and acid salts, of aluminium, ammonium, barium, calcium, iron, potassium, cobalt, copper, lithium, magnesium, manganese, sodium and zinc. If Annex 14 Table 1 names salts of acids, phenols or alcohols, it shall solely be these salts that it is permissible to use, and also the salts, including the double salts and acid salts, of aluminium, ammonium, barium, calcium, iron, potassium, cobalt, copper, lithium, magnesium, manganese, sodium and zinc of these acids, phenols or alcohols.

(6) Subject to Paragraphs 7, 8 and 10, it shall solely be permitted to use as additives those monomers or other starting substances stated in Annex 14 Table 1, and to use as monomers or other starting substances those additives stated in Annex 14 Table 1, provided that they correspond to the other restrictions, specifications and purity requirements stipulated in Annex 14 Table 1 Column 8.

- (7) Provided that the printing inks are not intended to come into contact with the food directly, by derogation from Paragraphs 5 and 6 the following shall be permitted to be used in printing inks for the commercial manufacture of printed food contact materials and articles:
- 1. Polymers obtained from monomers or other starting substances other than those stated in Annex 14 Table 1, and
- 2. Substances other than those stated in Annex 14 Table 1, used as monomers or other starting substances, or as colourants, solvents, photoinitiators or other additives.

In addition, the substances as defined in Clause 1 shall solely be permitted to be used if they are not classified as "mutagenic", "carcinogenic" or "toxic for reproduction", as defined in the requirements in Annex I, Sections 3.5, 3.6 and 3.7 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and Directive 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal (OJ) of the European Union, L 353 of 31.12.2008, p. 1). Substances as defined in Clause 1 shall also be those in the form of nanomaterials. Clause 1 shall not apply to printed food contact materials and articles for which it is foreseeable that the printing inks directly come into contact with foods although they are not intended to do so.

- (8) In addition, in the commercial manufacture of printed food contact materials and articles it shall be permitted to use monomers or other starting substances or additives in the printing inks, provided that they:
  - are listed in the respective valid version of Annex I of Commission Regulation (EU)
    No 10/2011 of 14 January 2011 on plastic materials and articles intended to come
    into contact with food (OJ of the European Union, L 12, 15.01.2011, p. 1) without
    group restrictions according to the corresponding Table 1 Column 9 of that document, or without restrictions and specifications according to the corresponding Table 1 Column 10 of that document,
  - 2. correspond to the general requirements according to Article 8 of Regulation (EU) No 10/2011 in the version valid on [to be inserted: date of the latest Regulation amending (EU) No 10/2011] and
  - 3. , in relation to the printed food contact material and article, comply with the limits for the transfer onto food stated in Annex I Table 1 Column 8 of Regulation (EU) No 10/2011, in its respective valid version, or Article 11(2) of Regulation (EU) No 10/2011 in the version valid on [to be inserted: date of the latest Regulation amending Regulation (EU) No 10/2011].

Paragraph 5 Clause 5 shall apply accordingly.

- (9) By derogation from Paragraph 5 Clause 1, in printing on food contact materials and articles referred to in Article 4(7) Clause 4, it shall also be permitted to use the pigments named in Annex 14 Table 2, according to the conditions, specifications and purity requirements stipulated there. Paragraph 5 Clause 3 shall apply accordingly.
- (10) The Paragraphs 5 to 9 shall not apply for any printed food contact materials and articles with regard to which it is ruled out that there will be a transfer of substances from the printing ink to the food, including such substances in the form of nanomaterials."
- 3. The following Paragraphs, 5 to 7, shall be added to Article 8:
- "(5) With regard to printed food contact materials and articles, the substances listed in Annex 14 Tables 1 and 2 shall not be permitted to exceed the respective limits for the transfer onto foods, stated for them in Column 6 or 7 in connection with Annex 14 Table 3. Transfers of barium, iron, cobalt, copper, lithium, manganese and zinc and also of primary aromatic amines shall not be permitted to exceed the respective limits stipulated in Annex 14 Table 4.
- (6) For substances stated in Annex 14 Table 1, for which Annex 14 Table 1 or 3 does not specify a specific migration limit, group restriction or any other restrictions, it shall solely be permitted for a maximum limit of 60 milligrams per kilogram respectively to be transferred onto food from printed food contact materials and articles.
- (7) With regard to printed food contact materials and articles, a detectable transfer of substances from printing inks, used according to Article 4(7), shall not be permitted. For substances other than those in the form of nanomaterials, a transfer of up to 0,01 milligrams per kilogram of food shall be deemed to be non-detectable."
- 4. In Article 12 (2) Item 3 the word "a" is replaced by the words "or (5) Clause 1, 2 or 4 a in that context mentioned".
- 5. The following Paragraphs, namely 15, 16, 17 and 18, shall be added to Article 16:
- "(15) Printed food contact materials or articles placed on the market according to the rules valid until the [to be inserted: the last day of the twenty-fourth calendar month that follows the announcement of this Ordinance] shall also still be permitted to be placed on the market after this date, according to these rules, until the stocks have been sold.

(16) Article 2 Clause 1 Items 7 to 12, Clauses 2 and 3; Article 4(5) to (9); Article 8(5) to (7); and Article 12(2) Item 3: these shall be applied starting on the [to be inserted: first day of the twenty-fifth calendar month following the announcement of this Ordinance]."

(17) Food contact materials as specified in Article 4(7) Clause 4, printed by using pigments listed in Annex 14 Table 2, and placed on the market according to the rules valid until the [to be inserted: last day of the forty-eight calendar month following the announcement of this Ordinance] shall also still be permitted to be placed on the market after this date, according to these rules, until the stocks have been sold.

(18) Article 4(9), in connection with Annex 14 Table 2, shall no longer be applied from the [to be inserted: the last day of the forty-eighth calendar month following the announcement of this Ordinance]."

6. After Annex 13, the following shall be added - Annex 14:

#### "Annex 14

The subsequent Tables, 1 and 2, shall contain the following information:

Column 1 (substance name): Chemical name

Column 2 (CAS No.): Chemical Abstract Service number

Column 3 (REF No.): EEC packaging material reference number

Column 4 (substance No.): Substance number

Column 5 (purpose of use): Use as

- I: Monomers or other starting substances (substances that are polymerised to manufacture macromolecules (polymers) or that are used to modify natural or artificially-manufactured macromolecules (polymers);
- II: Colourants (colouring substances (pigments and colourings));
- III: Solvents (fluids capable of dissolving other substances without chemically changing either themselves or the dissolved substance in the process);
- IV: Additives (substances used in order to attain a technical effect during the process of printing or varnishing or in the end-product. This does not include additives used for pigments);

V: Photoinitiators (additives which, by being exposed to irradiation, are transferred into free radicals or ions and which start a chemical reaction).

Column 6 (SML [mg/kg]): Specific migration limit, stated in milligrams of the substance affected per kilogram of food. If "ND" is indicated, a detectable transfer of the substance onto foods shall not be permitted. A transfer of up to 0,01 milligrams per kilogram of food shall be deemed to be a non-detectable transfer.

Column 7 (group limit no.): Number of the substance group for which a group restriction is stipulated in Table 3.

Column 8 (other restrictions, specifications and purity requirements): Restrictions other than those stated in Columns 6 and 7 in connection with Table 3, and also specifications and purity requirements.

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**Table 1: List of monomers or other starting substances, colourants, solvents, photoinitiators or other additives** (related to Article 4 (5), (6) and (7), Article 8 (5) clause 1 and (6))

| 1                             | 2        | 3      | 4       | 5 |     |       |     |   | 6       | 7              | 8                                   |
|-------------------------------|----------|--------|---------|---|-----|-------|-----|---|---------|----------------|-------------------------------------|
| Substance name                | CAS-No   | REF-No | Substan |   | int | ended | use |   | SML     | Group          | Restrictions, specifications and    |
|                               |          |        | ce-No   | I | II  | III   | IV  | V | [mg/kg] | restriction No | purity requirements                 |
| acetaldehyde                  | 0000075- | 10060  | 1       | X |     |       |     |   | 6       |                |                                     |
|                               | 07-0     |        |         |   |     |       |     |   |         |                |                                     |
| acrylic acid, ester with tri- | 0044992- |        | 2       | X |     |       |     |   | 0,05    |                |                                     |
| methylethanolammonium         | 01-0     |        |         |   |     |       |     |   |         |                |                                     |
| chloride                      |          |        |         |   |     |       |     |   |         |                |                                     |
| acrylic acid                  | 0000079- | 10690  | 3       | X |     |       | X   |   |         | (20)           |                                     |
|                               | 10-7     |        |         |   |     |       |     |   |         |                |                                     |
| acrylic acid,                 | 0050976- | 11000  | 4       | X |     |       |     |   | 0,05    |                |                                     |
| dicyclopentadienyl ester      | 02-8     |        |         |   |     |       |     |   |         |                |                                     |
| adipic acid, dimethyl ester   | 0000627- |        | 5       |   |     | X     |     |   | 3       |                |                                     |
|                               | 93-0     |        |         |   |     |       |     |   |         |                |                                     |
| polyester of adipic acid with | 0024937- | 76780  | 6       |   |     |       | X   |   |         | (28)           |                                     |
| 1,3-butanediol                | 93-7     |        |         |   |     |       |     |   |         | (29)           |                                     |
| α-alkenes(C20-C24) copol-     | 0152261- | 33535  | 7       |   |     |       | X   |   |         |                | Not to be used for articles in con- |
| ymer with maleic anhydride,   | 33-1     |        |         |   |     |       |     |   |         |                | tact with fatty foods for which     |
| reaction product with 4-      |          |        |         |   |     |       |     |   |         |                | simulant D is laid down.            |
| amino-2,2,6,6-                |          |        |         |   |     |       |     |   |         |                | Not to be used in contact with      |
| tetramethylpiperidine         |          |        |         |   |     |       |     |   |         |                | alcoholic foods.                    |

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|                              |          | 1     | 1  |   |   |   |   | 1    | T | <u>,                                      </u> |
|------------------------------|----------|-------|----|---|---|---|---|------|---|--|
| alkyl(C10-C21)sulphonic      | 0091082- | 34240 | 8  |   |   |   | X | 0,05 |   |  |
| acid, esters with phenol     | 17-6     |       |    |   |   |   |   |      |   |  |
| Food Red 17 (E 129)          | 0025956- |       | 9  |   | X |   |   |      |   |  |
|                              | 17-6     |       |    |   |   |   |   |      |   |  |
| amines, bis(hydrogenated     | 0143925- | 34850 | 10 |   |   |   | X |      |   | Not to be used for articles in con-            |
| tallow alkyl) oxidised       | 92-2     |       |    |   |   |   |   |      |   | tact with fatty foods for which                |
|                              |          |       |    |   |   |   |   |      |   | simulant D is laid down.                       |
|                              |          |       |    |   |   |   |   |      |   | Only to be used in:                            |
|                              |          |       |    |   |   |   |   |      |   | (a) polyolefins at 0,1 % (w/w)                 |
|                              |          |       |    |   |   |   |   |      |   | concentration and in                           |
|                              |          |       |    |   |   |   |   |      |   | (b) PET at 0,25 % (w/w) concen-                |
|                              |          |       |    |   |   |   |   |      |   | tration.                                       |
| 2-aminobenzamide             | 0000088- | 34895 | 11 |   |   |   | X | 0,05 |   |  |
|                              | 68-6     |       |    |   |   |   |   |      |   |  |
| 2-aminoethanol               | 0000141- | 12763 | 12 | X |   |   | X | 0,05 |   |  |
|                              | 43-5     | 35170 |    |   |   |   |   |      |   |  |
| N-(2-                        | 0000111- | 35284 | 13 | X |   |   | X | 0,05 |   |  |
| aminoethyl)ethanolamine      | 41-1     |       |    |   |   |   |   |      |   |  |
| 1-propanol, 2-amino-2-       | 0000124- |       | 14 | X |   | X | X | 5    |   |  |
| methyl-                      | 68-5     |       |    |   |   |   |   |      |   |  |
| 3-aminopropyltriethoxysilane | 0000919- | 12786 | 15 | X |   |   | X | 0,05 |   |  |
|                              | 30-2     |       |    |   |   |   |   |      |   |  |
| antimony trioxide            | 0001309- | 35760 | 16 |   |   |   | X | 0,04 |   | SML expressed as antimony                      |
|                              | 64-4     |       |    |   |   |   |   |      |   | , < <sup>6</sup>                               |

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| malic acid                     | 0006915- | 19965 | 17 | X |   | х |      |      |                                     |
|--------------------------------|----------|-------|----|---|---|---|------|------|-------------------------------------|
|                                | 15-7     | 65020 |    |   |   |   |      |      |                                     |
| azelaic acid, bis(2-           | 0000103- |       | 18 |   |   | x | 0,05 |      |                                     |
| ethylhexyl) ester              | 24-2     |       |    |   |   |   |      |      |                                     |
| barium tetraborate             | 0012007- | 36840 | 19 |   |   | X |      | (14) |                                     |
|                                | 55-5     |       |    |   |   |   |      |      |                                     |
| 1,2-benzisothiazolin-3-one     | 0002634- | 37520 | 20 |   |   | Х | 0,5  |      |                                     |
|                                | 33-5     |       |    |   |   |   |      |      |                                     |
| pyromellitic acid              | 0000089- | 24055 | 21 | X |   |   | 0,05 |      | For the sum of pyromellitic acid    |
|                                | 05-4     |       |    |   |   |   |      |      | und pyromellitic acid anhydride     |
|                                |          |       |    |   |   |   |      |      | (CAS-No. 0000089-32-7) the          |
|                                |          |       |    |   |   |   |      |      | transfer into food shall not exceed |
|                                |          |       |    |   |   |   |      |      | 0.05 mg/kg.                         |
| 1,2,4-benzenetricarboxylic     | 0004130- |       | 22 |   |   | X | 0,05 |      |                                     |
| acid, tris(decyl) ester        | 35-2     |       |    |   |   |   |      |      |                                     |
| 1,2,4-benzenetricarboxylic     | 0003319- |       | 23 |   | X |   | 0,05 |      |                                     |
| acid, tris(2-ethylhexyl) ester | 31-1     |       |    |   |   |   |      |      |                                     |
| phenol, 2-(2H-benzotriazol-    | 0125304- |       | 24 |   |   | X | 5    |      |                                     |
| 2-yl)-6-dodecyl-4-methyl-,     | 04-3     |       |    |   |   |   |      |      |                                     |
| branched and linear            |          |       |    |   |   |   |      |      |                                     |
| acrylic acid, benzyl ester     | 0002495- | 10750 | 25 | Х |   |   |      | (20) |                                     |
|                                | 35-4     |       |    |   |   |   |      |      |                                     |
| methacrylic acid, benzyl       | 0002495- | 20080 | 26 | X |   |   |      | (21) |                                     |
| ester                          | 37-6     |       |    |   |   |   |      |      | . < &                               |

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|--------------------------------|----------|-------|----|---|--|---|---|------|------|------------------------------------|
| cis-endo-                      |          | 38507 | 27 |   |  | X |   | 5    |      | Not to be used in direct contact   |
| bicyclo[2.2.1]heptane-2,3-     |          |       |    |   |  |   |   |      |      | with acidic foods.                 |
| dicarboxylic acid, salts       |          |       |    |   |  |   |   |      |      | Purity $\geq$ 96 %.                |
| phosphorous acid, bis(2,4-di-  | 0145650- | 74010 | 28 |   |  | X |   | 5    |      | expressed as sum of phosphite      |
| tert-butyl-6-methylphenyl)     | 60-8     |       |    |   |  |   |   |      |      | and phosphate                      |
| ethyl ester                    |          |       |    |   |  |   |   |      |      |                                    |
| bis(2,6-di-tert-butyl-4-       | 0080693- | 38810 | 29 |   |  | X |   | 5    |      | expressed as sum of phosphite      |
| methylphenyl)pentaerythritol   | 00-1     |       |    |   |  |   |   |      |      | and phosphate                      |
| diphosphite                    |          |       |    |   |  |   |   |      |      |                                    |
| bis(2,4-                       | 0154862- | 38840 | 30 |   |  | X |   | 5    |      | expressed as sum of the substance  |
| dicumylphenyl)pentaerythrit    | 43-8     |       |    |   |  |   |   |      |      | itself, its oxidised form bis(2,4- |
| ol-diphosphite                 |          |       |    |   |  |   |   |      |      | dicumylphenyl)pentaerythritol-     |
|                                |          |       |    |   |  |   |   |      |      | phosphate and its hydrolysis       |
|                                |          |       |    |   |  |   |   |      |      | product (2,4-dicumylphenol)        |
| bis(2,6-diisopropylphenyl)     | 0002162- | 13303 | 31 |   |  | X |   | 0,05 |      | Expressed as the sum of bis(2,6-   |
| carbodiimide                   | 74-5     |       |    |   |  |   |   |      |      | diisopropylphenyl)carbodiimide     |
|                                |          |       |    |   |  |   |   |      |      | and its hydrolysis product 2,6-    |
|                                |          |       |    |   |  |   |   |      |      | diisopropylaniline                 |
| 2,4-bis(dodecylthiomethyl)-    | 0110675- | 38940 | 33 |   |  | X |   |      | (22) |                                    |
| 6-methylphenol                 | 26-8     |       |    |   |  |   |   |      |      |                                    |
| adipic acid, bis(2-ethylhexyl) | 0000103- | 31920 | 34 | х |  | X |   | 18   | (29) |                                    |
| ester                          | 23-1     |       |    |   |  |   |   |      |      |                                    |
| terephthalic acid, bis(2-      | 0006422- | 92200 | 35 |   |  | X |   | 60   | (29) |                                    |
| ethylhexyl)ester               | 86-2     |       |    |   |  |   |   |      |      | 46                                 |

| N,N-bis(2-                    |          | 39090 | 36 |   |  | X |      | (5)  |                                 |
|-------------------------------|----------|-------|----|---|--|---|------|------|---------------------------------|
| hydroxyethyl)alkyl(C8-        |          |       |    |   |  |   |      |      |                                 |
| C18)amine                     |          |       |    |   |  |   |      |      |                                 |
| N,N-bis(2-                    |          | 39120 | 37 |   |  | X |      | (5)  | expressed excluding HCl         |
| hydroxyethyl)alkyl(C8-        |          |       |    |   |  |   |      |      |                                 |
| C18)amine hydrochlorides      |          |       |    |   |  |   |      |      |                                 |
| hydantoin, 1,3-               | 0006440- |       | 39 |   |  | x | 0,05 |      |                                 |
| bis(hydroxymethyl)-5,5-       | 58-0     |       |    |   |  |   |      |      |                                 |
| dimethyl-                     |          |       |    |   |  |   |      |      |                                 |
| bis(2-                        | 0054208- | 12974 | 40 | X |  |   |      |      | according to Regulation (EC) No |
| hydroxyphenyl)methane         | 63-8     |       |    |   |  |   |      |      | 1895/2005                       |
| bis(2,3-epoxypropyl) ether    |          |       |    |   |  |   |      |      |                                 |
| 2,2-bis(4-                    | 0001675- | 13510 | 41 | x |  | x |      |      | In compliance with Commission   |
| hydroxyphenyl)propane         | 54-3     | 13610 |    |   |  |   |      |      | Regulation (EC) No              |
| bis(2,3-epoxypropyl) ether    |          |       |    |   |  |   |      |      | 1895/2005 (1)                   |
| 2,2-bis(4-                    | 0000116- | 13520 | 42 | x |  |   | 0,05 |      |                                 |
| hydroxyphenyl)propane         | 37-0     |       |    |   |  |   |      |      |                                 |
| bis(2-hydroxypropyl) ether    |          |       |    |   |  |   |      |      |                                 |
| 2,4-bis(octylthiomethyl)-6-   | 0110553- | 40020 | 43 |   |  | X |      | (22) |                                 |
| methylphenol                  | 27-0     |       |    |   |  |   |      |      |                                 |
| 1-piperidinyloxy, 4,4'-[1,10- | 0002516- |       | 44 |   |  | x | 0,05 |      |                                 |
| dioxo-1,10-                   | 92-9     |       |    |   |  |   |      |      |                                 |
| dec-                          |          |       |    |   |  |   |      |      |                                 |
| anediyl)bis(oxy)]bis[2,2,6,6- |          |       |    |   |  |   |      |      |                                 |

|                             |          |       |    |   | 1 |   | 1 | I    |      | T                                |
|-----------------------------|----------|-------|----|---|---|---|---|------|------|----------------------------------|
| tetramethyl]-               |          |       |    |   |   |   |   |      |      |                                  |
| boron nitride               | 0010043- | 40400 | 45 |   |   |   | X |      | (14) |                                  |
|                             | 11-5     |       |    |   |   |   |   |      |      |                                  |
| boric acid                  | 0010043- | 13620 | 46 | Х |   |   | Х |      | (14) |                                  |
|                             | 35-3     | 40320 |    |   |   |   |   |      |      |                                  |
| Food Brown 3 (E 155)        | 0004553- |       | 47 |   | Х |   |   |      |      |                                  |
|                             | 89-3     |       |    |   |   |   |   |      |      |                                  |
| Food Black 1 (E 151)        | 0002519- |       | 48 |   | х |   |   |      |      |                                  |
|                             | 30-4     |       |    |   |   |   |   |      |      |                                  |
| 1,3-propanediol, 2-bromo-2- | 0000052- |       | 49 |   |   |   | X | 0,05 |      |                                  |
| nitro-                      | 51-7     |       |    |   |   |   |   |      |      |                                  |
| butadiene                   | 0000106- | 13630 | 50 | Х |   |   |   | NN   |      | 1 mg/kg in final product         |
|                             | 99-0     |       |    |   |   |   |   |      |      |                                  |
| 1,4-butanediol              | 0000110- | 13720 | 51 |   |   | х | Х |      | (27) |                                  |
|                             | 63-4     | 40580 |    |   |   |   |   |      |      |                                  |
| 1,4-butanediol bis(2,3-     | 0002425- | 13780 | 52 | Х |   |   |   | NN   |      | 1 mg/kg in final product (ex-    |
| epoxypropyl)ether           | 79-8     |       |    |   |   |   |   |      |      | pressed as epoxygroup, Molecular |
|                             |          |       |    |   |   |   |   |      |      | weight = 43 Da)                  |
| 2-butanol                   | 0000078- |       | 53 |   |   | х |   | 1    |      |                                  |
|                             | 92-2     |       |    |   |   |   |   |      |      |                                  |
| tert-butanol                | 0000075- | 13845 | 54 |   |   | х |   | 10   |      |                                  |
|                             | 65-0     | 40594 |    |   |   |   |   |      |      |                                  |
| 2-butanone                  | 0000078- | 21827 | 55 |   |   | х |   | 5    |      |                                  |
|                             | 93-3     | 66655 |    |   |   |   |   |      |      | ر مرق                            |

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| 0005121  |  | <b>5.6</b>   |  |   |   |   |   | 0.05   |   |   |
|----------|--|--|--|---|---|---|---|--|---|---|
|          |  | 56   |  |   | X   |   |   | 0,05   |   |   |
| 66-8     |  |  |  |   |   |   |   |  |   |   |
| 0029387- |  | 57   |  |   | X   |   |   | 0,05   |   |   |
| 86-8     |  |  |  |   |   |   |   |  |   |   |
| 0000141- | 10780  | 58   | X  |   |   |   |   |  | (20)  |   |
| 32-2     |  |  |  |   |   |   |   |  |   |   |
| 0002998- | 10810  | 59   | X  |   |   |   |   |  | (20)  |   |
| 08-5     |  |  |  |   |   |   |   |  |   |   |
| 0001663- | 10840  | 60   | х  |   |   |   |   |  | (20)  |   |
| 39-4     |  |  |  |   |   |   |   |  |   |   |
| 0001948- |  | 61   | х  |   |   | х   |   | 42   |   |   |
| 33-0     |  |  |  |   |   |   |   |  |   |   |
| 0000097- | 20110  | 62   | х  |   |   |   |   |  | (21)  |   |
| 88-1     |  |  |  |   |   |   |   |  |   |   |
| 0000585- | 20170  | 63   | х  |   |   |   |   |  | (21)  |   |
| 07-9     |  |  |  |   |   |   |   |  |   |   |
| 0000585- |  | 64   | X  |   |   |   |   | 0,05   |   |   |
| 34-2     |  |  |  |   |   |   |   |  |   |   |
| 0000105- | 14200  | 65   | Х  |   |   | х   |   | 15   |   |   |
| 60-2     | 41840  |  |  |   |   |   |   |  |   |   |
| 0000502- | 14260  | 66   | х  |   |   |   |   |  | (26)  |   |
| 44-3     |  |  |  |   |   |   |   |  | , ,   |   |
|          | 14380  | 67   | X  |   |   |   |   | NN   |   | 1 mg/kg in final product  |
|          |  |  |  |   |   |   |   |  |   | Ting kg in final product  |
|          | 86-8  0000141- 32-2  0002998- 08-5  0001663- 39-4  0001948- 33-0  0000097- 88-1  0000585- 07-9  0000585- 34-2  0000105- 60-2  0000502- | 66-8         0029387-         86-8         0000141-       10780         32-2       10810         08-5       10840         39-4       0001948-         33-0       20110         88-1       20170         07-9       0000585-         34-2       41840         0000502-       41840         0000075-       14380 | 66-8       0029387-       57         86-8       57         0000141-       10780       58         32-2       0002998-       10810       59         08-5       0001663-       10840       60         39-4       61       33-0       61         000097-       20110       62       62         88-1       0000585-       64       64         34-2       0000105-       14200       65         60-2       41840       66         0000502-       14260       66         44-3       0000075-       14380       67 | 66-8       0029387-       57         86-8       57         0000141-       10780       58       x         32-2       0002998-       10810       59       x         08-5       0001663-       10840       60       x         39-4       61       x         0001948-       61       x         33-0       0000097-       20110       62       x         88-1       0000585-       20170       63       x         07-9       0000585-       64       x         34-2       41840       65       x         0002       14260       66       x         44-3       14380       67       x | 66-8       0029387-       57         86-8       57         0000141-       10780       58       x         32-2       10810       59       x         08-5       0001663-       10840       60       x         39-4       61       x         0001948-       61       x         33-0       20110       62       x         88-1       64       x         0000585-       64       x         34-2       41840       66       x         0000502-       14260       66       x         44-3       14380       67       x | 66-8       0029387-       x         86-8       57       x         0000141-       10780       58       x         32-2       0002998-       10810       59       x         08-5       0001663-       10840       60       x         39-4       61       x       33-0         0000097-       20110       62       x         88-1       0000585-       20170       63       x         07-9       64       x       34-2         0000105-       14200       65       x         60-2       41840       66       x         0000502-       14260       66       x         44-3       0000075-       14380       67       x | 66-8       0029387-       57       x         86-8       10000141-       10780       58       x         32-2       10810       59       x         08-5       10840       60       x         39-4       61       x       x         0001948-       61       x       x         33-0       20110       62       x         88-1       64       x       34-2         0000585-       64       x       x         60-2       41840       x       x         0000502-       14260       66       x         44-3       0000075-       14380       67       x | 66-8       0029387-       57       x         86-8       57       x       x         0000141-       10780       58       x         32-2       0002998-       10810       59       x         08-5       0001663-       10840       60       x         39-4       61       x       x         33-0       000097-       20110       62       x         88-1       0000585-       20170       63       x         07-9       0000585-       64       x       x         34-2       0000105-       14200       65       x       x         60-2       41840       41840       x       x         0000502-       14260       66       x       x         0000075-       14380       67       x       x | 66-8         66-8         57         x         0,05           86-8         57         x         0,05           86-8         10000141-         10780         58         x           00002998-         10810         59         x         3000000000000000000000000000000000000 | 66-8         66-8         57         x         0,05 |

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| 0009004- | 14512  | 68   | X   |  |  |  |   |   |  |   |
|----------|--|--|---|--|--|--|---|---|--|---|
| 39-1     |  |  |   |  |  |  |   |   |  |   |
| 0000059- |  | 69   |   |  |  | X  |   | 5   |  |   |
| 50-7     |  |  |   |  |  |  |   |   |  |   |
| 0055965- | 43730  | 70   |   |  |  | X  |   | 0,15  |  |   |
| 84-9     |  |  |   |  |  |  |   |   |  |   |
|          |  |  |   |  |  |  |   |   |  |   |
|          |  |  |   |  |  |  |   |   |  |   |
| 0000091- |  | 71   | X   |  |  |  |   | 0,6   |  |   |
| 64-5     |  |  |   |  |  |  |   |   |  |   |
| 0001076- | 14876  | 72   | X   |  |  |  |   | 5   |  |   |
| 97-7     |  |  |   |  |  |  |   |   |  |   |
| 0166412- | 45705  | 73   |   |  |  | X  |   |   | (29)   |   |
| 78-8     |  |  |   |  |  |  |   |   |  |   |
| 0068037- |  | 74   |   |  |  | X  |   |   |  |   |
| 01-4     |  |  |   |  |  |  |   |   |  |   |
| 0009004- |  | 75   |   |  |  | X  |   |   |  |   |
| 53-9     |  |  |   |  |  |  |   |   |  |   |
| 0007398- |  | 76   | х   |  |  |  |   | 5   |  |   |
| 69-8     |  |  |   |  |  |  |   |   |  |   |
| 0035691- |  | 77   |   |  |  | X  |   | 1   |  |   |
| 65-7     |  |  |   |  |  |  |   |   |  |   |
| 0000109- | 85360  | 78   |   |  |  | X  |   |   | (29)   |   |
| 43-3     |  |  |   |  |  |  |   |   |  | ্ৰ  |
|          | 39-1<br>0000059-<br>50-7<br>0055965-<br>84-9<br>0000091-<br>64-5<br>0001076-<br>97-7<br>0166412-<br>78-8<br>0068037-<br>01-4<br>0009004-<br>53-9<br>0007398-<br>69-8<br>0035691-<br>65-7<br>0000109- | 39-1 0000059- 50-7 0055965- 84-9  0000091- 64-5 0001076- 97-7 0166412- 78-8 0068037- 01-4 0009004- 53-9 0007398- 69-8 0035691- 65-7 0000109- 85360 | 39-1       69         50-7       69         0055965-       43730       70         84-9       70         0000091-       71         64-5       72         001076-       14876       72         97-7       73         0166412-       45705       73         78-8       74         001-4       75         033-9       76         69-8       0035691-       77         65-7       78 | 39-1       69         50-7       69         0055965-       43730       70         84-9       70       70         0000091-       71       x         64-5       72       x         0001076-       14876       72       x         97-7       73       73       73         78-8       74       74       74         001-4       0009004-       75       75         53-9       76       x         0035691-       77       65-7         0000109-       85360       78 | 39-1       69         50-7       69         0055965-       43730       70         84-9       70       70         0000091-       71       x         64-5       72       x         97-7       14876       72       x         97-7       73       73       73         78-8       74       74       74         00-4       75       75       75         53-9       76       x         0007398-       76       x         69-8       0035691-       77         65-7       0000109-       85360       78 | 39-1       69         50-7       69         0055965-       43730       70         84-9       70       70         0000091-       71       70         64-5       72       72         0001076-       14876       72       73         78-8       74       74         0068037-       74       75         53-9       76       77         69-8       77       77         65-7       65-7       78 | 39-1       69       x         50-7       69       x         0055965-       43730       70       x         84-9       70       x       x         0000091-       71       x       x         64-5       72       x       x         97-7       14876       72       x         0166412-       45705       73       x         78-8       74       x       x         0068037-       74       x       x         01-4       75       x       x         0009004-       75       x       x         69-8       0035691-       77       x         65-7       0000109-       85360       78       x | 39-1       0000059-       69       x         50-7       0055965-       43730       70       x         84-9       70       x       x         0000091-       71       x       x         64-5       0001076-       14876       72       x         97-7       0166412-       45705       73       x         78-8       0068037-       74       x         01-4       0009004-       75       x         53-9       76       x         0007398-       76       x         69-8       0035691-       77       x         65-7       0000109-       85360       78       x | 39-1       0000059-50-7       69       x       5         0055965-84-9       43730       70       x       0,15         0000091-64-5       71       x       0,6         0001076-97-7       14876       72       x       5         97-7       0166412-45705       73       x       x         78-8       0068037-01-4       x       x       5         0009004-53-9       75       x       5         0007398-69-8       76       x       5         0035691-65-7       77       x       1         0000109-85360       78       x       x | 39-1       69       x       5         50-7       69       x       5         0055965-84-9       43730       70       x       0,15         84-9       70       x       0,6         0000091-64-5       72       x       5         0001076-97-7       14876       72       x       5         78-8       x       (29)         78-8       x       (29)         0068037-01-4       74       x       5         009004-53-9       75       x       5         69-8       76       x       5         0035691-65-7       77       x       1         0000109-85360       78       x       (29) |

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| dibutylthiostannoic acid     | 0026427- | 47210 | 79 |   |   | X |      |      | Molecular unit = (C8H18S3Sn2)n |
|------------------------------|----------|-------|----|---|---|---|------|------|--------------------------------|
| polymer                      | 07-6     |       |    |   |   |   |      |      | (n = 1,5-2)                    |
| 3(2H)-isothiazolone, 4,5-    | 0064359- |       | 80 |   |   | X | 5    |      |                                |
| dichloro-2-octyl-            | 81-5     |       |    |   |   |   |      |      |                                |
| dicyclohexylmethane-4,4'-    | 0005124- | 13560 | 81 | X |   |   |      | (15) | 1 mg/kg in final product ex-   |
| diisocyanate                 | 30-1     | 15700 |    |   |   |   |      |      | pressed as isocyanate moiety   |
| phthalic acid, dicyclohexyl  | 0000084- |       | 82 |   |   | х | 6    |      |                                |
| ester                        | 61-7     |       |    |   |   |   |      |      |                                |
| dicyclopentadiene            | 0000077- |       | 83 | х |   |   | 5    |      |                                |
|                              | 73-6     |       |    |   |   |   |      |      |                                |
| didecyldimethylammonium      | 0007173- |       | 84 |   |   | х | 5    |      |                                |
| chloride                     | 51-5     |       |    |   |   |   |      |      |                                |
| thiodipropionic acid,        | 0000123- | 93120 | 85 |   |   | х |      | (12) |                                |
| didodecyl ester              | 28-4     |       |    |   |   |   |      |      |                                |
| di-n-dodecyltin bis(isooctyl | 0084030- | 47600 | 86 |   |   | X |      | (23) |                                |
| mercaptoacetate)             | 61-5     |       |    |   |   |   |      |      |                                |
| diethanolamine               | 0000111- |       | 87 | X |   |   | 0,3  |      |                                |
|                              | 42-2     |       |    |   |   |   |      |      |                                |
| methacrylic acid, 2-         | 0000105- |       | 88 | х |   |   | 0,05 |      |                                |
| (diethylamino)ethyl ester    | 16-8     |       |    |   |   |   |      |      |                                |
| diethyleneglycol             | 0000111- | 13326 | 89 | х | Х | х |      | (1)  |                                |
|                              | 46-6     | 15760 |    |   |   |   |      |      |                                |
|                              |          | 47680 |    |   |   |   |      |      |                                |
| ethanamine, N-ethyl-N-       | 0003710- |       | 90 | Х |   | х | 0,05 |      | 1 < 8.                         |

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| hydroxy-                     | 84-7     |        |    |   |  |   |      |      |   |
|------------------------------|----------|--------|----|---|--|---|------|------|---|
| ethanol, 2-(diethylamino)-   | 0000100- |        | 91 |   |  | X | 0,05 |      |   |
|                              | 37-8     |        |    |   |  |   |      |      |   |
| 2,4-dihydroxybenzophenone    | 0000131- | 48640  | 92 |   |  | X |      | (6)  |   |
|                              | 56-6     |        |    |   |  |   |      |      |   |
| 4,4'-dihydroxybenzophenone   | 0000611- | 15970  | 93 |   |  | X |      | (6)  |   |
|                              | 99-4     | 48720  |    |   |  |   |      |      |   |
| 2,2'-dihydroxy-4-            | 0000131- | 48880  | 94 |   |  | X |      | (6)  |   |
| methoxybenzophenone          | 53-3     |        |    |   |  |   |      |      |   |
| N-(2,6-diisopropylphenyl)-6- | 0852282- | 49080  | 95 |   |  | X | 0,05 |      |   |
| [4-(1,1,3,3-                 | 89-4     |        |    |   |  |   |      |      |   |
| tetramethylbutyl)phenoxy]-   |          |        |    |   |  |   |      |      |   |
| 1H-benzo[de]isoquinolin-     |          |        |    |   |  |   |      |      |   |
| 1,3(2H)-dione                |          |        |    |   |  |   |      |      |   |
| acids, fatty, unsaturated    | 0061788- | 10599/ | 96 | X |  | X |      | (16) |   |
| (C18), dimers, non hydro-    | 89-4     | 90A    |    |   |  |   |      |      |   |
| genated, distilled and non-  |          | 10599/ |    |   |  |   |      |      |   |
| distilled                    |          | 91     |    |   |  |   |      |      |   |
| acids, fatty, unsaturated    | 0068783- | 10599/ | 97 | X |  | X |      | (16) |   |
| (C18), dimers, hydrogenated, | 41-5     | 92A    |    |   |  |   |      |      |   |
| distilled and non-distilled  |          | 10599/ |    |   |  |   |      |      |   |
|                              |          | 93     |    |   |  |   |      |      |   |
| dimethylamine                | 0000124- |        | 98 | Х |  |   | 0,05 |      |   |
|                              | 40-3     |        |    |   |  |   |      |      | 1 |

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|-------------------------------|----------|-------|-----|---|---|---|------|------|--|
| acrylic acid, 2-              | 0002439- |       | 99  | X |   |   | 0,05 |      |  |
| (dimethylamino)ethyl ester    | 35-2     |       |     |   |   |   |      |      |  |
| 3,3'-dimethyl-4,4'-           | 0006864- | 16210 | 100 | х |   |   | 0,05 |      |  |
| diaminodicyclohexylmethane    | 37-5     |       |     |   |   |   |      |      |  |
| 3,3'-dimethyl-4,4'-           | 0000091- | 16240 | 101 | X |   |   |      | (15) | 1 mg/kg in final product ex-                             |
| diisocyanatobiphenyl          | 97-4     |       |     |   |   |   |      |      | pressed as isocyanate moiety                             |
| 2,6-dimethyl-4-heptanone      | 0000108- |       | 102 |   | x |   | 0,05 |      |  |
|                               | 83-8     |       |     |   |   |   |      |      |  |
| hydantoin, 5,5-dimethyl-      | 0000077- |       | 103 |   |   | X | 5    |      |  |
|                               | 71-4     |       |     |   |   |   |      |      |  |
| benzenemethanaminium,         | 0046830- |       | 104 |   |   | Х | 0,05 |      |  |
| N,N-dimethyl-N-[2-[(1-oxo-    | 22-2     |       |     |   |   |   |      |      |  |
| 2-propenyl)oxy]ethyl]-, chlo- |          |       |     |   |   |   |      |      |  |
| ride                          |          |       |     |   |   |   |      |      |  |
| phthalic acid, dimethyl ester | 0000131- |       | 105 |   |   | X | 0,05 |      |  |
|                               | 11-3     |       |     |   |   |   |      |      |  |
| polydimethylsiloxane (Mw >    | 0063148- | 23547 | 106 | X |   |   |      |      | Viscosity at 25 °C not less than                         |
| 6 800 Da)                     | 62-9     | 76721 |     |   |   |   |      |      | $100 \text{ cSt } (100 \times 10\text{-}6 \text{ m2/s})$ |
| dimethyltin bis(ethylhexyl    | 0057583- | 49595 | 107 |   |   | X |      | (7)  |  |
| mercaptoacetate)              | 35-4     |       |     |   |   |   |      |      |  |
| dimethyltin bis(isooctyl      | 0026636- | 49600 | 108 |   |   | X |      | (7)  |  |
| mercaptoacetate)              | 01-1     |       |     |   |   |   |      |      |  |
| stannane, dimethylbis[(1-     | 0068928- |       | 109 |   |   | X | 0,05 |      |  |
| oxoneodecyl)oxy]-             | 76-7     |       |     |   |   |   |      |      | رمق  |

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| _                               |          |       |     |  |   |  |      | _     |
|---------------------------------|----------|-------|-----|--|---|--|------|-------|
| thiodipropionic acid,           | 0000693- | 93280 | 110 |  | X |  | (12) |       |
| dioctadecyl ester               | 36-7     |       |     |  |   |  |      |       |
| di-n-octyltin bis(n-alkyl(C10-  |          | 50160 | 111 |  | X |  | (8)  |       |
| C16) mercaptoacetate)           |          |       |     |  |   |  |      |       |
| di-n-octyltin bis(2-ethylhexyl  | 0010039- | 50240 | 112 |  | x |  | (8)  |       |
| maleate)                        | 33-5     |       |     |  |   |  |      |       |
| di-n-octyltin bis(2-ethylhexyl  | 0015571- | 50320 | 113 |  | x |  | (8)  |       |
| mercaptoacetate)                | 58-1     |       |     |  |   |  |      |       |
| di-n-octyltin bis(ethyl         |          | 50360 | 114 |  | X |  | (8)  |       |
| maleate)                        |          |       |     |  |   |  |      |       |
| di-n-octyltin bis(isooctyl      | 0033568- | 50400 | 115 |  | X |  | (8)  |       |
| maleate)                        | 99-9     |       |     |  |   |  |      |       |
| di-n-octyltin bis(isooctyl      | 0026401- | 50480 | 116 |  | X |  | (8)  |       |
| mercaptoacetate)                | 97-8     |       |     |  |   |  |      |       |
| di-n-octyltin 1,4-butanediol    |          | 50560 | 117 |  | x |  | (8)  |       |
| bis(mercaptoacetate)            |          |       |     |  |   |  |      |       |
| di-n-octyltin dilaurate         | 0003648- | 50640 | 118 |  | X |  | (8)  |       |
|                                 | 18-8     |       |     |  |   |  |      |       |
| di-n-octyltin dimaleate         | 0015571- | 50720 | 119 |  | X |  | (8)  |       |
|                                 | 60-5     |       |     |  |   |  |      |       |
| di-n-octyltin dimaleate, pol-   |          | 50880 | 120 |  | X |  | (8)  |       |
| ymers $(n = 2-4)$               |          |       |     |  |   |  |      |       |
| di-n-octyltin dimaleate, ester- |          | 50800 | 121 |  | X |  | (8)  |       |
| ified                           |          |       |     |  |   |  |      | , < e |

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| _                             |          |       | 1   |   |   |   |      |      |                                 |
|-------------------------------|----------|-------|-----|---|---|---|------|------|---------------------------------|
| di-n-octyltin ethyleneglycol  | 0069226- | 50960 | 122 |   |   | x |      | (8)  |                                 |
| bis(mercaptoacetate)          | 44-4     |       |     |   |   |   |      |      |                                 |
| di-n-octyltin thiobenzoate 2- |          | 51120 | 123 |   |   | х |      | (8)  |                                 |
| ethylhexyl mercaptoacetate    |          |       |     |   |   |   |      |      |                                 |
| di-n-octyltin mercaptoacetate | 0015535- | 51040 | 124 |   |   | x |      | (8)  |                                 |
|                               | 79-2     |       |     |   |   |   |      |      |                                 |
| diphenylmethane-2,4'-         | 0005873- | 16600 | 125 | х |   |   |      | (15) | 1 mg/kg in final product ex-    |
| diisocyanate                  | 54-1     |       |     |   |   |   |      |      | pressed as isocyanate moiety    |
| diphenylmethane-4,4'-         | 0000101- | 16630 | 126 | х |   |   |      | (15) | 1 mg/kg in final product ex-    |
| diisocyanate                  | 68-8     |       |     |   |   |   |      |      | pressed as isocyanate moiety    |
| dipropyleneglycol methyl      | 0088917- |       | 127 |   | х |   | 0,05 |      |                                 |
| ether acetate                 | 22-0     |       |     |   |   |   |      |      |                                 |
| dipropyleneglycol             | 0034590- |       | 128 |   | х | х | 0,05 |      |                                 |
| monomethyl ether              | 94-8     |       |     |   |   |   |      |      |                                 |
| dipropyleneglycol n-butyl     | 0029911- |       | 129 |   | х |   | 0,05 |      |                                 |
| ether                         | 28-2     |       |     |   |   |   |      |      |                                 |
| divinylbenzene                | 0001321- | 16690 | 130 | х |   |   | NN   |      | expressed as the sum of divi-   |
|                               | 74-0     |       |     |   |   |   |      |      | nylbenzene and ethylvinylben-   |
|                               |          |       |     |   |   |   |      |      | zene.                           |
|                               |          |       |     |   |   |   |      |      | It may contain up to 45 % (m/m) |
|                               |          |       |     |   |   |   |      |      | of ethylvinylbenzene.           |
| 1-dodecanol                   | 0000112- | 16701 | 131 | х |   |   |      |      |                                 |
|                               | 53-8     | 51975 |     |   |   |   |      |      |                                 |
| gallic acid, dodecyl ester    | 0001166- | 55200 | 132 |   |   | х |      | (18) | .<0                             |

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|                              | 52-5     |        |     |   |   |   |      |                                     |
|------------------------------|----------|--------|-----|---|---|---|------|-------------------------------------|
| Natural Red 4 (E 120)        | 0001260- |        | 133 |   | Х |   |      |                                     |
|                              | 17-9     |        |     |   |   |   |      |                                     |
| iron phosphide               | 0012751- | 62245  | 134 |   |   | x | 0,05 |                                     |
|                              | 22-3     |        |     |   |   |   |      |                                     |
| elaidic acid                 | 0000112- |        | 135 |   |   | x |      |                                     |
|                              | 79-8     |        |     |   |   |   |      |                                     |
| epichlorohydrin              | 0000106- | 14570  | 136 | x |   |   | NN   | 1 mg/kg in final product            |
|                              | 89-8     | 16750  |     |   |   |   |      |                                     |
| trialkyl(C5-C15)acetic acid, |          | 25360  | 137 | x |   |   | NN   | 1 mg/kg in final product ex-        |
| 2,3-epoxypropyl ester        |          |        |     |   |   |   |      | pressed as epoxygroup.              |
|                              |          |        |     |   |   |   |      | Molecular weight is 43 Da.          |
| petroleum hydrocarbon        |          | 72081/ | 138 |   |   | X |      | Petroleum hydrocarbon resins,       |
| resins (hydrogenated)        |          | 10     |     |   |   |   |      | hydrogenated are produced by the    |
|                              |          |        |     |   |   |   |      | catalytic or thermalpolymerisation  |
|                              |          |        |     |   |   |   |      | of dienes and olefins of the ali-   |
|                              |          |        |     |   |   |   |      | phatic, alicyclic and/or monoben-   |
|                              |          |        |     |   |   |   |      | zenoidarylalkene types from dis-    |
|                              |          |        |     |   |   |   |      | tillates of cracked petroleum       |
|                              |          |        |     |   |   |   |      | stocks with a boiling range not     |
|                              |          |        |     |   |   |   |      | greater than 220 °C, as well as the |
|                              |          |        |     |   |   |   |      | pure monomers found in these        |
|                              |          |        |     |   |   |   |      | distillation streams, subsequently  |
|                              |          |        |     |   |   |   |      | followed by distillation, hydro-    |

ind in these
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ilation, hydro-vertical control of the control of th

|                                | 1        | 1     |     |   |   |   | ı    | T    | T                                |
|--------------------------------|----------|-------|-----|---|---|---|------|------|----------------------------------|
|                                |          |       |     |   |   |   |      |      | genation and additional pro-     |
|                                |          |       |     |   |   |   |      |      | cessing.                         |
|                                |          |       |     |   |   |   |      |      | Properties:                      |
|                                |          |       |     |   |   |   |      |      | — Viscosity at 120 °C: > 3 Pa.s, |
|                                |          |       |     |   |   |   |      |      | — Softening point: > 95 °C as    |
|                                |          |       |     |   |   |   |      |      | determined by ASTM Method E      |
|                                |          |       |     |   |   |   |      |      | 28-67,                           |
|                                |          |       |     |   |   |   |      |      | — Bromine number: < 40 (ASTM     |
|                                |          |       |     |   |   |   |      |      | D1159),                          |
|                                |          |       |     |   |   |   |      |      | — The colour of a 50 % solution  |
|                                |          |       |     |   |   |   |      |      | in toluene < 11 on the Gardner   |
|                                |          |       |     |   |   |   |      |      | scale,                           |
|                                |          |       |     |   |   |   |      |      | — Residual aromatic monomer ≤    |
|                                |          |       |     |   |   |   |      |      | 50 ppm,                          |
| acetic acid, isobutyl ester    | 0000110- |       | 139 |   | x |   | 1    |      |                                  |
|                                | 19-0     |       |     |   |   |   |      |      |                                  |
| acetic acid, isopropyl ester   | 0000108- |       | 140 |   | X |   | 0,05 |      |                                  |
|                                | 21-4     |       |     |   |   |   |      |      |                                  |
| glycerides, castor-oil mono-,  | 0736150- | 55910 | 141 |   |   | X |      | (29) |                                  |
| hydrogenated, acetates         | 63-3     |       |     |   |   |   |      |      |                                  |
| stearic acid, esters with eth- |          | 89440 | 142 |   |   | X |      | (1)  |                                  |
| yleneglycol                    |          |       |     |   |   |   |      |      |                                  |
| acrylic acid, ethyl ester      | 0000140- | 11470 | 143 | X |   |   |      | (20) |                                  |
|                                | 88-5     |       |     |   |   |   |      |      | ٧٥.                              |

|                                | 1        | ,     |     |   |   |   |   |      |      |                                   |
|--------------------------------|----------|-------|-----|---|---|---|---|------|------|-----------------------------------|
| Ethylbenzene                   | 0000100- | 53255 | 144 |   | X | x |   | 0,6  |      |                                   |
|                                | 41-4     |       |     |   |   |   |   |      |      |                                   |
| ethylene carbonate             | 0000096- | 16955 | 145 | х |   |   |   | 30   |      | expressed as ethyleneglycol       |
|                                | 49-1     |       |     |   |   |   |   |      |      |                                   |
| ethyleneglycol                 | 0000107- | 16990 | 146 | х | X | X |   |      | (1)  |                                   |
|                                | 21-1     | 53650 |     |   |   |   |   |      |      |                                   |
| ethyleneglycol butyl ether     | 0000112- |       | 147 |   | X |   |   |      | (35) |                                   |
| acetate                        | 07-2     |       |     |   |   |   |   |      |      |                                   |
| acrylic acid, monoester with   | 0000818- | 11510 | 148 | х |   |   |   |      | (20) |                                   |
| ethyleneglycol                 | 61-1     | 11830 |     |   |   |   |   |      |      |                                   |
| ethyleneglycol monobutyl       | 0000111- | 16993 | 149 |   | X |   |   |      | (35) | Only for use on the non food-     |
| ether                          | 76-2     |       |     |   |   |   |   |      |      | contact side.                     |
| methacrylic acid, monoester    | 0000868- | 21190 | 150 | х |   |   |   |      | (21) |                                   |
| with ethyleneglycol            | 77-9     |       |     |   |   |   |   |      |      |                                   |
| ethyleneglycol monopropyl      | 0002807- |       | 152 |   | X |   |   | 0,05 |      |                                   |
| ether                          | 30-9     |       |     |   |   |   |   |      |      |                                   |
| ethylene oxide                 | 0000075- | 17020 | 153 | х |   |   |   | NN   |      | 1 mg/kg in final product          |
|                                | 21-8     |       |     |   |   |   |   |      |      |                                   |
| 2-ethylhexanoic acid           | 0000149- |       | 154 | x |   | X |   | 0,05 |      |                                   |
|                                | 57-5     |       |     |   |   |   |   |      |      |                                   |
| acrylic acid, acrylic acid, 2- | 0025134- | 31500 | 155 |   |   | x |   | 0,05 | (20) | SMG expressed as acrylic acid, 2- |
| ethylhexyl ester, copolymer    | 51-4     |       |     |   |   |   |   |      |      | ethylhexyl ester                  |
| benzoic acid, p-               | 0021245- |       | 156 |   |   | X | X | 0,05 |      |                                   |
| (dimethylamino)-, 2-           | 02-3     |       |     |   |   |   |   |      |      | ্ৰে                               |

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|                               |          |       |     |   |   |   |   | ı    |                                 |
|-------------------------------|----------|-------|-----|---|---|---|---|------|---------------------------------|
| ethylhexyl ester              |          |       |     |   |   |   |   |      |                                 |
| methacrylic acid, ethyl ester | 0000097- | 20890 | 157 | X |   |   |   | (21) |                                 |
|                               | 63-2     |       |     |   |   |   |   |      |                                 |
| N-ethyl-                      | 0008047- |       | 158 |   |   | X | 5 |      |                                 |
| toluenesulphonamide           | 99-2     |       |     |   |   |   |   |      |                                 |
| (NETSA)                       |          |       |     |   |   |   |   |      |                                 |
| ethylvanillin                 | 0000121- | 54420 | 159 |   |   | X |   |      |                                 |
|                               | 32-4     |       |     |   |   |   |   |      |                                 |
| acids, fatty (C8-C22), esters | 0085116- | 31348 | 161 |   | X | Х |   |      |                                 |
| with pentaerythritol          | 93-4     |       |     |   |   |   |   |      |                                 |
| fatty acids, montan-wax, 1-   | 0073138- |       | 162 |   |   | х |   |      |                                 |
| methyl-1,3-propanediyl es-    | 44-0     |       |     |   |   |   |   |      |                                 |
| ters                          |          |       |     |   |   |   |   |      |                                 |
| fatty acids, tallow,          | 0061790- | 54760 | 163 |   |   | X |   |      |                                 |
| hydrogenated                  | 38-3     |       |     |   |   |   |   |      |                                 |
| formaldehyde                  | 0000050- | 17260 | 164 | X |   | x |   | (13) |                                 |
|                               | 00-0     | 54880 |     |   |   |   |   |      |                                 |
| tannic acids                  | 0001401- | 92150 | 165 |   |   | X |   |      | According to the JECFA specifi- |
|                               | 55-4     |       |     |   |   |   |   |      | cations                         |
| glass                         | 0065997- |       | 166 |   |   | Х |   |      |                                 |
|                               | 17-3     |       |     |   |   |   |   |      |                                 |
| gluconic acid lactone         | 0000090- |       | 167 |   |   | х |   |      |                                 |
|                               | 80-2     |       |     |   |   |   |   |      |                                 |
| gluconic acid                 | 0000526- |       | 168 |   |   | х |   |      | ړ ره                            |

|                         | 05.4     |       |     |   |  |   |  |      |      |
|-------------------------|----------|-------|-----|---|--|---|--|------|------|
|                         | 95-4     |       |     |   |  |   |  |      |      |
| glycerides, montan-wax  | 0068476- |       | 169 |   |  | X |  |      |      |
|                         | 38-0     |       |     |   |  |   |  |      |      |
| glycerol monolaurate    | 0030899- | 56800 | 170 |   |  | X |  | (29) |      |
| diacetate               | 62-8     |       |     |   |  |   |  |      |      |
| glycerol monoricinolate | 0001323- | 57440 | 171 |   |  | X |  |      |      |
|                         | 38-2     |       |     |   |  |   |  |      |      |
| glycerol monostearate   | 0031566- | 18115 | 172 | х |  |   |  |      |      |
|                         | 31-1     | 57520 |     |   |  |   |  |      |      |
| glycerol tris(12-       | 0000139- | 58160 | 173 |   |  | х |  |      |      |
| hydroxystearate)        | 44-6     |       |     |   |  |   |  |      |      |
| glycerol diacetate      | 0025395- | 56000 | 174 |   |  | X |  |      |      |
|                         | 31-7     |       |     |   |  |   |  |      |      |
| glycerol dioleate       | 0025637- | 56080 | 175 |   |  | X |  |      |      |
|                         | 84-7     |       |     |   |  |   |  |      |      |
| glycerol distearate     | 0001323- | 56320 | 176 |   |  | х |  |      |      |
|                         | 83-7     |       |     |   |  |   |  |      |      |
| glycerol monolaurate    | 0027215- | 56780 | 177 |   |  | х |  |      |      |
|                         | 38-9     |       |     |   |  |   |  |      |      |
| glycerol monomyristate  | 0027214- | 56840 | 178 |   |  | х |  |      |      |
|                         | 38-6     |       |     |   |  |   |  |      |      |
| glycerol monooleate     | 0025496- | 56960 | 179 |   |  | х |  |      |      |
|                         | 72-4     |       |     |   |  |   |  |      |      |
| glycerol tributyrate    | 0000060- | 57840 | 180 |   |  | х |  |      | ্বৰ্ |

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|                              | 01-5     |       |     |   |   |   |      |      |   |
| glycerol trilaurate          | 0000538- | 57960 | 181 |   |   | X |      |      |   |
|                              | 24-9     |       |     |   |   |   |      |      |   |
| glycolic acid                | 0000079- | 18117 | 182 | Х |   | Х | 0,05 |      |   |
|                              | 14-1     |       |     |   |   |   |      |      |   |
| glyoxal                      | 0000107- |       | 183 | Х |   |   | 0,05 |      |   |
|                              | 22-2     |       |     |   |   |   |      |      |   |
| 1-heptanol                   | 0000111- | 18150 | 184 | х |   |   |      |      |   |
|                              | 70-6     |       |     |   |   |   |      |      |   |
| silanamine, 1,1,1-trimethyl- | 0000999- |       | 185 |   |   | Х |      | (30) |   |
| N-(trimethylsilyl)-          | 97-3     |       |     |   |   |   |      |      |   |
| disiloxane, hexamethyl-      | 0000107- |       | 186 | х |   |   |      | (30) |   |
|                              | 46-0     |       |     |   |   |   |      |      |   |
| hexamethylene diisocyanate   | 0000822- | 18640 | 187 | x |   |   |      | (15) | 1 mg/kg in final product ex-                              |
|                              | 06-0     |       |     |   |   |   |      |      | pressed as isocyanate moiety                              |
| hexamethylenetetramine       | 0000100- | 18670 | 188 | x |   | х |      | (13) |   |
|                              | 97-0     | 59280 |     |   |   |   |      |      |   |
| hexanol                      | 0000111- | 18780 | 189 |   | х |   |      |      |   |
|                              | 27-3     |       |     |   |   |   |      |      |   |
| hydrogenated homopolymers    |          | 60027 | 190 |   |   | Х |      |      | Average molecular weight not                              |
| and/or copolymers made of    |          |       |     |   |   |   |      |      | less than 440 Da.   |
| 1-hexene and/or 1-octene     |          |       |     |   |   |   |      |      | Viscosity at 100 °C not less than                         |
| and/or 1-decene and/or 1-    |          |       |     |   |   |   |      |      | $3.8 \text{ cSt } (3.8 \times 10\text{-}6 \text{ m2/s}).$ |
| dodecene and/or 1-           |          |       |     |   |   |   |      |      | ્રંત્ર્   |

not less than

m2/s).

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| tetradecene (Mw: 440–<br>12 000)   |                  |       |     |   |  |   |      |      |   |
|--|------------------|-------|-----|---|--|---|------|------|---|
| 3-hydroxybutanoic acid-3-hydroxypentanoic acid, co-polymer                 | 0080181-31-3     | 18888 | 191 | X |  |   |      |      | The substance is used as product obtained by bacterial fermentation. In compliance with the specifications mentioned in the Table 4 of Annex I of Commission Regulation (EU) No 10/2011 of 14 January 2011. |
| 2-(2'-hydroxy-3'-tert-butyl-<br>5'-methylphenyl)-5-<br>chlorobenzotriazole | 0003896-<br>11-5 | 60400 | 192 |   |  | Х |      | (10) |   |
| 2-(2'-hydroxy-3,5'-di-tert-<br>butylphenyl)-5-<br>chlorobenzotriazole      | 0003864-<br>99-1 | 60480 | 193 |   |  | Х |      | (10) |   |
| 2-hydroxy-4-n-<br>hexyloxybenzophenone                                     | 0003293-<br>97-8 | 61280 | 194 |   |  | х |      | (6)  |   |
| 2-hydroxy-4-<br>methoxybenzophenone  | 0000131-<br>57-7 | 61360 | 195 |   |  | х |      | (6)  |   |
| 2-(2'-hydroxy-5'-<br>methylphenyl)benzotriazole                            | 0002440-<br>22-4 | 61440 | 196 |   |  | Х |      | (10) |   |
| 2-hydroxy-4-n-<br>octyloxybenzophenone                                     | 0001843-<br>05-6 | 61600 | 197 |   |  | х |      | (6)  |   |
| acrylic acid, 2-hydroxypropyl  | 0000999-         | 11530 | 198 | Х |  |   | 0,05 |      | expressed as the sum of acrylic   |

|          |  |   | 1   |   | 1  | l .  |  |  | F   |   |
|----------|--|---|---|---|--|--|--|--|---|---|
| 61-1     |  |   |   |   |  |  |  |  |   | acid, 2-hydroxypropyl ester and   |
|          |  |   |   |   |  |  |  |  |   | acrylic acid, 2-hydroxyisopropyl  |
|          |  |   |   |   |  |  |  |  |   | ester.  |
|          |  |   |   |   |  |  |  |  |   | It may contain up to 25 % (m/m)   |
|          |  |   |   |   |  |  |  |  |   | of acrylic acid, 2-   |
|          |  |   |   |   |  |  |  |  |   | hydroxyisopropyl ester (CAS No  |
|          |  |   |   |   |  |  |  |  |   | 0002918-23-2).  |
| 0002226- |  | 199   |   |   |  | X  |  | 0,05   |   |   |
| 96-2     |  |   |   |   |  |  |  |  |   |   |
| 0144538- |  | 200   |   |   |  | X  |  | 5  |   |   |
| 83-0     |  |   |   |   |  |  |  |  |   |   |
|          |  |   |   |   |  |  |  |  |   |   |
| 0055406- |  | 201   |   |   |  | X  |  | 9  |   |   |
| 53-6     |  |   |   |   |  |  |  |  |   |   |
| 0000075- |  | 202   | x   |   |  |  |  | 1  |   |   |
| 28-5     |  |   |   |   |  |  |  |  |   |   |
| 0000106- | 11590  | 203   | X   |   |  |  |  |  | (20)  |   |
| 63-8     |  |   |   |   |  |  |  |  |   |   |
| 0000078- |  | 204   | X   |   | X  |  |  | 1  |   |   |
| 83-1     |  |   |   |   |  |  |  |  |   |   |
| 0000097- | 21010  | 205   | х   |   |  |  |  |  | (21)  |   |
| 86-9     |  |   |   |   |  |  |  |  |   |   |
| 0004098- | 19110  | 206   | Х   |   |  |  |  |  | (15)  | 1 mg/kg in final product ex-  |
| 71-9     |  |   |   |   |  |  |  |  |   | pressed as isocyanate moiety  |
|          | 0002226-<br>96-2<br>0144538-<br>83-0<br>0055406-<br>53-6<br>0000075-<br>28-5<br>0000106-<br>63-8<br>0000078-<br>83-1<br>0000097-<br>86-9<br>0004098- | 0002226- 96-2 0144538- 83-0  0055406- 53-6 0000075- 28-5 0000106- 63-8 0000078- 83-1 0000097- 21010 86-9 0004098- 19110 | 0002226-<br>96-2<br>0144538-<br>83-0<br>200<br>0055406-<br>53-6<br>0000075-<br>28-5<br>0000106-<br>63-8<br>0000078-<br>83-1<br>0000097-<br>21010<br>205<br>86-9<br>0004098-<br>19110<br>206 | 00002226-       199         96-2       200         0144538-       200         83-0       201         53-6       202       x         0000075-       202       x         28-5       203       x         63-8       204       x         83-1       200       x         86-9       19110       205       x         0004098-       19110       206       x | 0002226-       199         96-2       199         0144538-       200         83-0       201         53-6       202         0000075-       202         28-5       203         0000106-       11590         63-8       204         0000078-       204         83-1       200         0000097-       21010         205       x         86-9       19110 | 0002226- 96-2 0144538- 83-0  0055406- 53-6  0000075- 28-5  0000106- 63-8  0000078- 83-1  0000097- 21010 205  x  86-9  0004098-  19110 206  x | 0002226- 96-2 0144538- 83-0  0055406- 53-6  0000075- 28-5  0000106- 11590 203 x  0000078- 83-1  0000097- 21010 205 x  86-9  0004098- 19110 206 x  x  x  x  x  x  x  x  x  x  x  x  x | 0002226- 96-2 0144538- 83-0  0055406- 53-6  0000075- 28-5  0000106- 63-8  0000078- 83-1  0000097- 21010 205  x  x  x  x  x  x  x  x  x  x  x  x  x | 0002226-       199       x       0,05         96-2       200       x       5         0144538-       200       x       5         83-0       201       x       9         53-6       202       x       1         0000075-       202       x       1         28-5       200       x       1         0000106-       11590       203       x       x       1         63-8       204       x       x       1         0000078-       21010       205       x       x       1         86-9       19110       206       x | 0002226-<br>96-2       199       x       0,05         0144538-<br>83-0       200       x       5         0055406-<br>53-6       201       x       9         0000075-<br>28-5       202       x       1         0000106-<br>63-8       11590       203       x       x       1         0000078-<br>83-1       204       x       x       1       (20)         0000097-<br>86-9       21010       205       x       x       1       (21)         0004098-       19110       206       x       0       0       (15) |

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| 0103170- | 19112  | 207  | X  |  |  |   |   | 0,05   |  | expressed as blocked trimer   |
|----------|--|--|--|--|--|---|---|--|--|---|
| 26-9     |  |  |  |  |  |   |   |  |  |   |
|          |  |  |  |  |  |   |   |  |  |   |
|          |  |  |  |  |  |   |   |  |  |   |
|          |  |  |  |  |  |   |   |  |  |   |
| 0000121- | 19150  | 208  | x  |  |  |   |   |  | (25)   |   |
| 91-5     |  |  |  |  |  |   |   |  |  |   |
| 0000099- | 19180  | 209  | X  |  |  |   |   |  | (25)   |   |
| 63-8     |  |  |  |  |  |   |   |  |  |   |
| 0000078- | 19243  | 210  | X  |  |  |   |   | NN   |  | 1 mg/kg in final product  |
| 79-5     | 21640  |  |  |  |  |   |   |  |  |   |
| 0000689- | 11680  | 211  | Х  |  |  |   |   |  | (20)   |   |
| 12-3     |  |  |  |  |  |   |   |  |  |   |
| 0005495- |  | 212  |  |  |  |   | Х   |  | (32)   |   |
| 84-1     |  |  |  |  |  |   |   |  |  |   |
| 0083846- |  | 213  |  |  |  |   | X   |  | (32)   |   |
| 86-0     |  |  |  |  |  |   |   |  |  |   |
| 0007681- | 81680  | 214  |  |  |  | Х   |   |  | (4)  |   |
| 11-0     |  |  |  |  |  |   |   |  | . ,  |   |
| 0061789- |  | 215  |  |  |  | Х   |   | 0,05   |  |   |
| 51-3     |  |  |  |  |  |   |   |  |  |   |
| 0068139- |  | 216  |  |  |  | Х   |   |  |  |   |
|          |  |  |  |  |  |   |   |  |  |   |
|          | 26-9  0000121- 91-5  0000099- 63-8  0000078- 79-5  0000689- 12-3  0005495- 84-1  0083846- 86-0  0007681- 11-0  0061789- 51-3 | 26-9  0000121- 19150 91-5  0000099- 19180 63-8  0000078- 19243 79-5 21640  0000689- 11680 12-3  0005495- 84-1  0083846- 86-0  0007681- 81680 11-0  0061789- 51-3  0068139- | 26-9         0000121-       19150       208         91-5       0000099-       19180       209         63-8       0000078-       19243       210         79-5       21640       211         12-3       0005495-       212         84-1       0083846-       213         86-0       0007681-       81680       214         11-0       0061789-       215         51-3       0068139-       216 | 26-9       19150       208       x         91-5       209       x         0000099-       19180       209       x         63-8       210       x         0000078-       19243       210       x         79-5       21640       211       x         12-3       212       x         84-1       213       x         86-0       214       x         11-0       215       x         51-3       216       x | 26-9       19150       208       x         91-5       209       x         0000099-       19180       209       x         63-8       210       x         0000078-       19243       210       x         79-5       21640       211       x         12-3       212       x       212         84-1       213       x       213         86-0       214       11-0       215         51-3       216       216       216 | 26-9       19150       208       x         91-5       209       x         0000099-       19180       209       x         63-8       210       x         0000078-       19243       210       x         79-5       21640       211       x         12-3       212       x       212         84-1       213       x       213         86-0       214       11-0       215         0061789-       215       51-3       216 | 26-9       19150       208       x         91-5       209       x         0000099-       19180       209       x         63-8       210       x         0000078-       19243       210       x         79-5       21640       211       x         12-3       212       84-1       212         84-1       213       86-0       x         0007681-       81680       214       x         11-0       215       x         0061789-       215       x         51-3       216       x | 26-9       19150       208       x         91-5       20000099-       19180       209       x         63-8       210       x       x         0000078-       19243       210       x         79-5       21640       211       x         0000689-       11680       211       x         12-3       212       x         84-1       x       x         00038346-       213       x         86-0       x       x         0007681-       81680       214       x         11-0       x       x         0061789-       215       x         51-3       x       x | 26-9       19150       208       x         91-5       209       x         0000099-       19180       209       x         63-8       19243       210       x         79-5       21640       x       NN         12-3       211       x         0005495-       212       x         84-1       213       x         0007681-       81680       214       x         11-0       x       0,05         51-3       216       x | 26-9       19150       208       x       (25)         91-5       19180       209       x       (25)         63-8       19243       210       x       NN         79-5       21640       NN       (20)         12-3       211       x       (32)         84-1       213       x       (32)         86-0       214       x       (4)         11-0       215       x       0,05         51-3       216       x       0,05 |

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| fatty acids, coco,        | 0068938- | 17175 | 217 | Х |   |   |      |     |                                    |
|---------------------------|----------|-------|-----|---|---|---|------|-----|------------------------------------|
| hydrogenated              | 15-8     |       |     |   |   |   |      |     |                                    |
| copper iodide             | 0001335- | 45200 | 218 |   |   | x |      | (4) |                                    |
|                           | 23-5     |       |     |   |   |   |      |     |                                    |
| N,N-bis(2-                | 0000120- | 39150 | 219 |   |   | x | 5    |     | The residual amount of diethano-   |
| hydroxyethyl)dodecanamide | 40-1     |       |     |   |   |   |      |     | lamine in plastics, as an impurity |
|                           |          |       |     |   |   |   |      |     | and decomposition product of the   |
|                           |          |       |     |   |   |   |      |     | substance, should not result in a  |
|                           |          |       |     |   |   |   |      |     | migration of diethanolamine        |
|                           |          |       |     |   |   |   |      |     | higher than 0,3 mg/kg food.        |
| Food Blue 2               | 0003844- |       | 220 |   | x |   |      |     |                                    |
|                           | 45-9     |       |     |   |   |   |      |     |                                    |
| Food Red 3                | 0003567- |       | 221 |   | x |   |      |     |                                    |
|                           | 69-9     |       |     |   |   |   |      |     |                                    |
| Food Red 7                | 0002611- |       | 222 |   | x |   |      |     |                                    |
|                           | 82-7     |       |     |   |   |   |      |     |                                    |
| Food Red 9                | 0000915- |       | 223 |   | x |   | 30   |     |                                    |
|                           | 67-3     |       |     |   |   |   |      |     |                                    |
| lignosulphonic acid       | 0008062- | 63940 | 224 |   |   | X | 0,24 |     |                                    |
|                           | 15-5     |       |     |   |   |   |      |     |                                    |
| lithium iodide            | 0010377- | 64320 | 225 |   |   | X |      | (4) |                                    |
|                           | 51-2     |       |     |   |   |   |      |     |                                    |
| silicic acid, magnesium-  | 0037296- | 85950 | 226 |   |   | X | 0,15 |     | SMG expressed as fluoride.         |
| sodium-fluoride salt      | 97-2     |       |     |   |   |   |      |     | Only to be used in layers not      |

fluoride.

1 layers not 10 con 12 con

|                              |          |       |     |   |   |   |      |      | coming into direct contact with  |
|------------------------------|----------|-------|-----|---|---|---|------|------|----------------------------------|
|                              |          |       |     |   |   |   |      |      | food.                            |
| maleic acid                  | 0000110- | 19540 | 227 | X |   | X |      | (2)  |                                  |
|                              | 16-7     | 64800 |     |   |   |   |      |      |                                  |
| maleic anhydride             | 0000108- | 19960 | 228 | X |   |   |      | (2)  |                                  |
|                              | 31-6     |       |     |   |   |   |      |      |                                  |
| maleic anhydride-styrene,    | 0025736- | 64990 | 229 |   |   | х |      |      | The fraction with molecular      |
| copolymer, sodium salt       | 61-2     |       |     |   |   |   |      |      | weight below 1 000 Da should not |
|                              |          |       |     |   |   |   |      |      | exceed 0,05 % (w/w)              |
| maltodextrine                | 0009050- |       | 230 |   |   | X |      |      |                                  |
|                              | 36-6     |       |     |   |   |   |      |      |                                  |
| [3-                          | 0002530- | 21498 | 231 | X |   | х | 0,05 |      |                                  |
| (methacryloxy)propyl]trimet  | 85-0     |       |     |   |   |   |      |      |                                  |
| hoxysilane                   |          |       |     |   |   |   |      |      |                                  |
| methacrylic acid, ester with | 0005039- |       | 232 | х |   |   | 0,05 |      |                                  |
| trimethylethanolammonium     | 78-1     |       |     |   |   |   |      |      |                                  |
| chloride                     |          |       |     |   |   |   |      |      |                                  |
| methacrylic acid             | 0000079- | 20020 | 233 | х |   |   |      | (21) |                                  |
|                              | 41-4     |       |     |   |   |   |      |      |                                  |
| methacrylic anhydride        | 0000760- | 21460 | 234 | Х |   |   |      | (21) |                                  |
|                              | 93-0     |       |     |   |   |   |      |      |                                  |
| 1-(2-Methoxy-1-              | 0020324- |       | 235 |   | X |   | 0,05 |      |                                  |
| methylethoxy)-2-propanol     | 32-7     |       |     |   |   |   |      |      |                                  |
| 2-propanol, 1-methoxy-       | 0000107- |       | 236 |   | X |   |      | (38) | Only for use on the non food-    |

The non food- Telling Con 12, 123 con Change Con 12, 123 con 12, 1

|                               | 98-2     |       |     |   |   |   |   |      |      | contact side.                    |
|-------------------------------|----------|-------|-----|---|---|---|---|------|------|----------------------------------|
| 2-propanol, 1-methoxy-, 2-    | 0000108- |       | 237 |   | X |   |   |      | (38) | Only for use on the non food-    |
| acetate                       | 65-6     |       |     |   |   |   |   |      |      | contact side.                    |
| 3-methyl-1,5-pentanediol      | 0004457- | 22074 | 238 | X |   |   |   | 0,05 |      |                                  |
|                               | 71-0     |       |     |   |   |   |   |      |      |                                  |
| 2-methyl-2,4-pentanediol      | 0000107- |       | 239 |   | х |   |   | 0,05 |      |                                  |
|                               | 41-5     |       |     |   |   |   |   |      |      |                                  |
| acrylic acid, methyl ester    | 0000096- | 11710 | 240 | х |   |   |   |      | (20) |                                  |
|                               | 33-3     |       |     |   |   |   |   |      |      |                                  |
| acrylic acid, methyl ester,   | 0174254- | 31542 | 241 |   |   | Х |   |      |      | 0,5 % in final product           |
| telomer with 1-               | 23-0     |       |     |   |   |   |   |      |      |                                  |
| dodecanethiol, C16-C18        |          |       |     |   |   |   |   |      |      |                                  |
| alkyl esters                  |          |       |     |   |   |   |   |      |      |                                  |
| benzophenone, 4-methyl-       | 0000134- |       | 242 |   |   |   | X | 0,05 |      | For the sum of 4-                |
|                               | 84-9     |       |     |   |   |   |   |      |      | methylbenzophenon und benzo-     |
|                               |          |       |     |   |   |   |   |      |      | phenon (CAS-No. 0000119-61-9)    |
|                               |          |       |     |   |   |   |   |      |      | the transfer into food shall not |
|                               |          |       |     |   |   |   |   |      |      | exceed 0.05 mg/kg.               |
| acrylamide, N,N'-             | 0000110- |       | 243 | Х |   |   |   | 0,05 |      |                                  |
| methylenebis-                 | 26-9     |       |     |   |   |   |   |      |      |                                  |
| 2,2'-methylene bis(4-ethyl-6- | 0000088- | 66400 | 244 |   |   | х |   |      | (11) |                                  |
| tert-butylphenol)             | 24-4     |       |     |   |   |   |   |      |      |                                  |
| 2,2'-methylene bis(4-methyl-  | 0000119- | 66480 | 245 |   |   | х |   |      | (11) |                                  |
| 6-tert-butylphenol)           | 47-1     |       |     |   |   |   |   |      |      | 140                              |

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| 2,2'-methylenebis(4-methyl-   | 0004066- | 66560 | 246 |   |   | X |      | (3)  |  |
|-------------------------------|----------|-------|-----|---|---|---|------|------|--|
| 6-cyclohexylphenol)           | 02-8     |       |     |   |   |   |      |      |  |
| 2,2'-methylenebis(4-methyl-   | 0000077- | 66580 | 247 |   |   | X |      | (3)  |  |
| 6-(1-                         | 62-3     |       |     |   |   |   |      |      |  |
| methylcyclohexyl)phenol)      |          |       |     |   |   |   |      |      |  |
| 2-methyl-4-isothiazolin-3-    | 0002682- | 66755 | 248 |   |   | x | 0,5  |      |  |
| one                           | 20-4     |       |     |   |   |   |      |      |  |
| methacrylic acid, methyl      | 0000080- | 21130 | 249 | X |   |   |      | (21) |  |
| ester                         | 62-6     |       |     |   |   |   |      |      |  |
| propanoic acid, 2-methyl-, 2- | 0000097- |       | 250 |   | х |   | 0,05 |      |  |
| methylpropyl ester            | 85-8     |       |     |   |   |   |      |      |  |
| 2-methyl-4-pentanone          | 0000108- | 66725 | 251 |   | х |   | 5    |      |  |
|                               | 10-1     |       |     |   |   |   |      |      |  |
| 2-methyl-1,3-propanediol      | 0002163- | 22190 | 252 | X |   |   | 5    |      |  |
|                               | 42-0     |       |     |   |   |   |      |      |  |
| methylsilsesquioxane          | 0068554- | 66930 | 253 |   |   | X |      |      | Residual monomer in me-  |
|                               | 70-1     |       |     |   |   |   |      |      | thylsilsesquioxane: < 1 mg me-                                 |
|                               |          |       |     |   |   |   |      |      | thyltrimethoxysilane/kg of me-                                 |
|                               |          |       |     |   |   |   |      |      | thylsilsesquioxane   |
| paraffin wax and hydrocar-    | 0063231- |       | 254 |   |   | X |      |      | Average molecular weight not                                   |
| bon waxes, microcristalline   | 60-7     |       |     |   |   |   |      |      | less than 500 Da.  |
|                               |          |       |     |   |   |   |      |      | Viscosity not less than $1,1 \times 10$ –                      |
|                               |          |       |     |   |   |   |      |      | 5 m 2 s – 1 at 100 °C or: not less                             |
|                               |          |       |     |   |   |   |      |      | than $0.8 \times 10 - 5 \text{ m } 2 \text{ s} - 1 \text{ at}$ |

han  $1,1 \times 10 -$ °C or: not less  $m \ 2 \ s - 1 \ at$   $CRS(1) \ con 12 \ c$ 

|                                |       |     |   | 1 |   |   | 1    |                                    |
|--------------------------------|-------|-----|---|---|---|---|------|------------------------------------|
|                                |       |     |   |   |   |   |      | 120 °C, if solid at 100 °C.        |
|                                |       |     |   |   |   |   |      | Carbon number at 5 % distillation  |
|                                |       |     |   |   |   |   |      | point: not more than 5 % of the    |
|                                |       |     |   |   |   |   |      | molecules with Carbon number       |
|                                |       |     |   |   |   |   |      | less than 25                       |
| mixture of (40% w/w) 2,2,4-    | 22332 | 255 | X |   | X |   | (15) | 1 mg/kg in final product ex-       |
| trimethylhexane-1,6-           |       |     |   |   |   |   |      | pressed as isocyanate moiety       |
| diisocyanate and (60% w/w)     |       |     |   |   |   |   |      |                                    |
| 2,4,4-trimethylhexane-1,6-     |       |     |   |   |   |   |      |                                    |
| diisocyanate                   |       |     |   |   |   |   |      |                                    |
| mixture of (50 % w/w)          | 67180 | 256 |   |   | X | 5 |      |                                    |
| phthalic acid n-decyl n-octyl  |       |     |   |   |   |   |      |                                    |
| ester, (25 % w/w) phthalic     |       |     |   |   |   |   |      |                                    |
| acid di-n-decyl ester, (25 %   |       |     |   |   |   |   |      |                                    |
| w/w) phthalic acid di-n- octyl |       |     |   |   |   |   |      |                                    |
| ester.                         |       |     |   |   |   |   |      |                                    |
| mixture of 4-(2-               | 67155 | 258 |   |   | X |   |      | Not more than 0,05 % (w/w)         |
| benzoxazolyl)-4'-(5-methyl-    |       |     |   |   |   |   |      | (quantity of substance             |
| 2-benzoxazolyl)stilbene, 4,4'- |       |     |   |   |   |   |      | used/quantity of the formulation). |
| bis(2-benzoxazolyl) stilbene   |       |     |   |   |   |   |      | Mixture obtained from the manu-    |
| and 4,4'-bis(5-methyl-2-       |       |     |   |   |   |   |      | facturing process in the typical   |
| benzoxazolyl)stilbene          |       |     |   |   |   |   |      | ratio of (58-62 %):(23-27 %):(13-  |
|                                |       |     |   |   |   |   |      | 17 %).                             |
| acetylated mono- and diglyc-   | 30401 | 259 |   |   | X |   | (29) | ~®                                 |
| erides of fatty acids          |       |     |   |   |   |   |      | - of 10                            |

| benzene, chloro-               | 0000108- | 67280 | 260 | X |  |   | 10   |      |                              |
|--------------------------------|----------|-------|-----|---|--|---|------|------|------------------------------|
|                                | 90-7     |       |     |   |  |   |      |      |                              |
| monochloroacetic acid          | 0000079- | 22333 | 261 | х |  |   | 0,05 |      |                              |
|                                | 11-8     |       |     |   |  |   |      |      |                              |
| mono-n-dodecyltin              | 0067649- | 67360 | 262 |   |  | X |      | (23) |                              |
| tris(isooctyl mercaptoacetate) | 65-4     |       |     |   |  |   |      |      |                              |
| monomethyltin                  | 0057583- | 67515 | 264 |   |  | X |      | (7)  |                              |
| tris(ethylhexyl                | 34-3     |       |     |   |  |   |      |      |                              |
| mercaptoacetate)               |          |       |     |   |  |   |      |      |                              |
| monomethyltin tris(isooctyl    | 0054849- | 67520 | 265 |   |  | X |      | (7)  |                              |
| mercaptoacetate)               | 38-6     |       |     |   |  |   |      |      |                              |
| mono-n-octyltin                |          | 67600 | 266 |   |  | X |      | (9)  |                              |
| tris(alkyl(C10-C16) mercap-    |          |       |     |   |  |   |      |      |                              |
| toacetate)                     |          |       |     |   |  |   |      |      |                              |
| mono-n-octyltin tris(2-        | 0027107- | 67680 | 267 |   |  | X |      | (9)  |                              |
| ethylhexyl mercaptoacetate)    | 89-7     |       |     |   |  |   |      |      |                              |
| mono-n-octyltin tris(isooctyl  | 0026401- | 67760 | 268 |   |  | X |      | (9)  |                              |
| mercaptoacetate)               | 86-5     |       |     |   |  |   |      |      |                              |
| starch, phosphate              | 0011120- |       | 269 | X |  |   |      |      |                              |
|                                | 02-8     |       |     |   |  |   |      |      |                              |
| 1,5-naphthalene diisocyanate   | 0003173- | 22420 | 271 | х |  |   |      | (15) | 1 mg/kg in final product ex- |
|                                | 72-6     |       |     |   |  |   |      |      | pressed as isocyanate moiety |
| sodium aluminate               | 0001302- | 86440 | 272 |   |  | X | 0,9  |      |                              |
|                                | 42-7     |       |     |   |  |   |      |      | , < <sup>6</sup>             |

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| sodium bisulphite                | 0007631-<br>90-5 | 86480   | 273 |   |  | X  |      | (17) |                               |
|----------------------------------|------------------|---------|-----|---|--|----|------|------|-------------------------------|
| pyrosulfurous acid, disodium     | 0007681-         |         | 274 | X |  |    |      | (17) |                               |
| salt                             | 57-4             |         | 274 | Λ |  |    |      | (17) |                               |
| gluconic acid, monosodium        | 0000527-         |         | 275 | X |  |    |      |      |                               |
| salt, D-                         | 07-1             |         | 213 | Λ |  |    |      |      |                               |
| sodium iodide                    | 0007681-         | 86800   | 276 |   |  | X  |      | (4)  |                               |
| Sodium fodide                    | 82-5             | 80800   | 270 |   |  | X  |      | (4)  |                               |
| stearic acid, ester with lactic  | 0025383-         |         | 277 |   |  | ** |      |      |                               |
| ·                                | 99-7             |         | 211 |   |  | X  |      |      |                               |
| acid bimol. ester, sodium salt   |                  | 0.00.00 | 270 |   |  |    |      | (17) |                               |
| sodium sulphite                  | 0007757-         | 86960   | 278 |   |  | X  |      | (17) |                               |
|                                  | 83-7             |         |     |   |  |    |      |      |                               |
| sodium tetraborate               | 0001330-         | 87040   | 279 |   |  | X  |      | (14) |                               |
|                                  | 43-4             |         |     |   |  |    |      |      |                               |
| sodium thiosulphate              | 0007772-         | 87120   | 280 |   |  | X  |      | (17) |                               |
|                                  | 98-7             |         |     |   |  |    |      |      |                               |
| neodecanoic acid, salts          |                  | 68110   | 281 |   |  | X  | 0,05 |      | expressed as neodecanoic acid |
| 2,2',2'-nitrilo(triethyl         | 0080410-         | 68145   | 282 |   |  | X  | 5    |      | expressed as sum of phosphite |
| tris(3,3',5,5'-tetra-tert-butyl- | 33-9             |         |     |   |  |    |      |      | and phosphate                 |
| 1,1'-bi-phenyl-2,2'-             |                  |         |     |   |  |    |      |      |                               |
| diyl)phosphite)                  |                  |         |     |   |  |    |      |      |                               |
| 1-octadecanol                    | 0000112-         | 22555   | 283 | x |  |    |      |      |                               |
|                                  | 92-5             | 68225   |     |   |  |    |      |      |                               |
| octadecyl isocyanate             | 0000112-         | 22570   | 284 | X |  |    |      | (15) | 1 mg/kg in final product ex-  |

oroduct ex- 18 con 12 123 con 12 123 con 12 con 12

|                             | 96-9     |       |     |   |   |   |   |      |      | pressed as isocyanate moiety |
|-----------------------------|----------|-------|-----|---|---|---|---|------|------|------------------------------|
| acrylic acid, n-octyl ester | 0002499- | 11890 | 285 |   |   | X |   |      | (20) |                              |
|                             | 59-4     |       |     |   |   |   |   |      |      |                              |
| gallic acid, octyl ester    | 0001034- | 55280 | 286 |   |   |   | х |      | (18) |                              |
|                             | 01-1     |       |     |   |   |   |   |      |      |                              |
| oils, orange, sweet         | 0008008- |       | 287 | X |   |   |   |      |      |                              |
|                             | 57-9     |       |     |   |   |   |   |      |      |                              |
| oils, lemon                 | 0008008- |       | 288 | X |   |   |   |      |      |                              |
|                             | 56-8     |       |     |   |   |   |   |      |      |                              |
| Acid Blue 3 (E 131)         | 0003536- |       | 289 |   | X |   |   |      |      |                              |
|                             | 49-0     |       |     |   |   |   |   |      |      |                              |
| pentaerythritol dioleate    | 0025151- | 71635 | 290 |   |   |   | X | 0,05 |      |                              |
|                             | 96-6     |       |     |   |   |   |   |      |      |                              |
| fluoropolyether dicarboxy   | 0069991- |       | 291 |   |   |   | х | 0,05 |      |                              |
| derivative ammonium salt    | 62-4     |       |     |   |   |   |   |      |      |                              |
| 2,2'-(1,4-phenylene)bis[4H- | 0018600- | 72141 | 292 |   |   |   | X | 0,05 |      | SMG including the sum of its |
| 3,1-benzoxazin-4-one]       | 59-4     |       |     |   |   |   |   |      |      | hydrolysis products          |
| methacrylic acid, phenyl    | 0002177- | 21280 | 293 | x |   |   |   |      | (21) |                              |
| ester                       | 70-0     |       |     |   |   |   |   |      |      |                              |
| 2-phenylphenol              | 0000090- |       | 294 |   |   |   | х | 12   |      |                              |
|                             | 43-7     |       |     |   |   |   |   |      |      |                              |
| 1,2,4-butanetricarboxylic   | 0037971- |       | 295 |   |   |   | x | 5    |      |                              |
| acid, 2-phosphono-          | 36-1     |       |     |   |   |   |   |      |      |                              |
| phosphoric anhydride        | 0001314- | 23173 | 296 | X |   |   |   |      |      | (<                           |

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|                              | ı        | 1     | 1   |   |   |      | 1    |                                  |
|------------------------------|----------|-------|-----|---|---|------|------|----------------------------------|
|                              | 56-3     |       |     |   |   |      |      |                                  |
| fluoropolyethers ammonium    | 0200013- |       | 297 |   | X | 0,05 |      |                                  |
| phosphate salt               | 65-6     |       |     |   |   |      |      |                                  |
| phosphoric acid, octadecyl   | 0039471- |       | 298 |   | X | 0,05 |      |                                  |
| esters                       | 52-8     |       |     |   |   |      |      |                                  |
| phthalic acid, benzyl butyl  | 0000085- | 74560 | 299 |   | X | 30   | (29) |                                  |
| ester                        | 68-7     |       |     |   |   |      |      |                                  |
| phthalic acid, bis(2-        | 0000117- | 74640 | 300 |   | X | 1,5  | (29) | Not to be used in direct contact |
| ethylhexyl) ester            | 81-7     |       |     |   |   |      |      | with fatty foods.                |
| phthalic acid, dibutyl ester | 0000084- | 74880 | 301 |   | X | 0,3  | (29) |                                  |
|                              | 74-2     |       |     |   |   |      |      |                                  |
| phthalic acid, diesters with | 0068515- | 75100 | 302 |   | X |      | (24) |                                  |
| primary, saturated C8-C10    | 48-0     |       |     |   |   |      | (29) |                                  |
| branched alcohols, more than | 0028553- |       |     |   |   |      |      |                                  |
| 60 % C9                      | 12-0     |       |     |   |   |      |      |                                  |
| phthalic acid, diesters with | 0068515- | 75105 | 303 |   | X |      | (24) |                                  |
| primary, saturated C9-C11    | 49-1     |       |     |   |   |      | (29) |                                  |
| alcohols more than 90 % C10  | 0026761- |       |     |   |   |      |      |                                  |
|                              | 40-0     |       |     |   |   |      |      |                                  |
| Pigment Metal 1              | 0007429- |       | 304 | X | X |      |      |                                  |
|                              | 90-5     |       |     |   |   |      |      |                                  |
| Pigment White 5              | 0001345- | 64400 | 305 | X |   |      |      |                                  |
|                              | 05-7     |       |     |   |   |      |      |                                  |
| poly(ethylene propyl-        | 0061725- |       | 306 |   | X | 0,05 |      | .<0                              |

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| ene)glycol tridecyl ether     | 89-1     |       |     |  |          |      |                                  |
|-------------------------------|----------|-------|-----|--|----------|------|----------------------------------|
| polyacrylic acid              | 0009003- |       | 307 |  | X        | (20) |                                  |
| polyacryne acid               |          |       | 307 |  | <b>A</b> | (20) |                                  |
|                               | 01-4     |       |     |  |          |      |                                  |
| polyacrylic acid, salts       |          | 76463 | 308 |  | X        | (20) |                                  |
| polydimethylsiloxane, 3-      | 0661476- | 76725 | 309 |  | x        |      | The fraction with molecular      |
| aminopropyl terminated,       | 41-1     |       |     |  |          |      | weight below 1 000 Da should not |
| polymer with 1-isocyanato-3-  |          |       |     |  |          |      | exceed 1 % (w/w)                 |
| isocyanatomethyl-3,5,5-       |          |       |     |  |          |      |                                  |
| trimethylcyclohexane          |          |       |     |  |          |      |                                  |
| polydimethylsiloxane, 3-      | 0167883- | 76723 | 310 |  | х        |      | The fraction with molecular      |
| aminopropyl terminated,       | 16-1     |       |     |  |          |      | weight below 1 000 Da should not |
| polymer with dicyclohexyl-    |          |       |     |  |          |      | exceed 1,5 % (w/w)               |
| methane-4,4'-diisocyanate     |          |       |     |  |          |      |                                  |
| polyester of adipic acid with | 0073018- | 76807 | 311 |  | х        | (28) |                                  |
| 1,3-butanediol, 1,2-          | 26-5     |       |     |  |          | (29) |                                  |
| propanediol and 2-ethyl-1-    |          |       |     |  |          | (=2) |                                  |
| hexanol                       |          |       |     |  |          |      |                                  |
| polyester of adipic acid with |          | 76815 | 312 |  | v        | (29) | The fraction with molecular      |
|                               |          | 70013 | 312 |  | X        | (29) |                                  |
| glycerol or pentaerythritol,  |          |       |     |  |          |      | weight below 1 000 Da should not |
| esters with even numbered,    |          |       |     |  |          |      | exceed 5 % (w/w)                 |
| unbranched C12-C22 fatty      |          |       |     |  |          |      |                                  |
| acids                         |          |       |     |  |          |      |                                  |
| polyester of 1,4-butanediol   | 0031831- | 76845 | 313 |  | X        | (26) | The fraction with molecular      |
| with caprolactone             | 53-5     |       |     |  |          | (27) | weight below 1 000 Da should not |

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|                                 |          |       |     |   |   |      |      | exceed 0,5 % (w/w)                  |
|---------------------------------|----------|-------|-----|---|---|------|------|-------------------------------------|
| polyesters of 1,2-propanediol   |          | 76866 | 314 |   | X |      | (28) |                                     |
| and/or 1,3- and/or 1,4-         |          |       |     |   |   |      | (29) |                                     |
| butanediol and/or polypro-      |          |       |     |   |   |      |      |                                     |
| pyleneglycol with adipic        |          |       |     |   |   |      |      |                                     |
| acid, which may be end-         |          |       |     |   |   |      |      |                                     |
| capped with acetic acid or      |          |       |     |   |   |      |      |                                     |
| fatty acids C12-C18 or n-       |          |       |     |   |   |      |      |                                     |
| octanol and/or n-decanol        |          |       |     |   |   |      |      |                                     |
| polyethylene glycol (EO = 1-    |          | 77732 | 315 |   | X | 0,05 |      |                                     |
| 30, typically 5) ether of butyl |          |       |     |   |   |      |      |                                     |
| 2-cyano 3-(4-hydroxy-3-         |          |       |     |   |   |      |      |                                     |
| methoxyphenyl) acrylate         |          |       |     |   |   |      |      |                                     |
| polyethyleneglycol (EO = 1-     |          | 77733 | 316 |   | X | 0,05 |      |                                     |
| 30, typically 5) ether of bu-   |          |       |     |   |   |      |      |                                     |
| tyl-2-cyano-3-(4-               |          |       |     |   |   |      |      |                                     |
| hydroxyphenyl) acrylate         |          |       |     |   |   |      |      |                                     |
| polyethyleneglycol (EO = 1-     |          | 77708 | 317 |   | X | 1,8  |      | In compliance with the purity       |
| 50) ethers of linear and        |          |       |     |   |   |      |      | criteria for ethylene oxide as laid |
| branched primary (C8-C22)       |          |       |     |   |   |      |      | down in Directive 2008/84/EC        |
| alcohols                        |          |       |     |   |   |      |      | laying down specific purity crite-  |
|                                 |          |       |     |   |   |      |      | ria on food additives other than    |
|                                 |          |       |     |   |   |      |      | colours and sweeteners (OJ L        |
|                                 |          |       |     |   |   |      |      | 253, 20.9.2008, p. 1)               |
| polyethyleneglycol (EO = 2-     | 0068439- | 77895 | 318 | x | X | 0,05 |      | The composition of this mixture is  |

|                              | 1        | 1     |     | , , | - |   | ı | T                               |
|------------------------------|----------|-------|-----|-----|---|---|---|---------------------------------|
| 6) monoalkyl (C16-C18)       | 49-6     |       |     |     |   |   |   | as follows:                     |
| ether                        |          |       |     |     |   |   |   | — polyethyleneglycol (EO = 2-   |
|                              |          |       |     |     |   |   |   | 6)monoalkyl (C16-C18) ether     |
|                              |          |       |     |     |   |   |   | (approximately 28 %),           |
|                              |          |       |     |     |   |   |   | — fatty alcohols (C16-C18) (ap- |
|                              |          |       |     |     |   |   |   | proximately 48 %),              |
|                              |          |       |     |     |   |   |   | — ethyleneglycol monoalkyl      |
|                              |          |       |     |     |   |   |   | (C16-C18) ether (approximately  |
|                              |          |       |     |     |   |   |   | 24 %),                          |
| polyethyleneglycol dilaurate | 0009005- | 77280 | 319 |     |   | X |   |                                 |
|                              | 02-1     |       |     |     |   |   |   |                                 |
| polyethyleneglycol           |          | 77320 | 320 |     |   | X |   |                                 |
| dimyristate                  |          |       |     |     |   |   |   |                                 |
| polyethyleneglycol dioleate  | 0009005- | 77360 | 321 |     |   | X |   |                                 |
|                              | 07-6     |       |     |     |   |   |   |                                 |
| polyethyleneglycol esters of |          | 77660 | 322 |     |   | X |   |                                 |
| natural fatty acids          |          |       |     |     |   |   |   |                                 |
| polyethyleneglycol           | 0009004- | 78080 | 323 |     |   | X |   |                                 |
| monolaurate                  | 81-3     |       |     |     |   |   |   |                                 |
| polyethyleneglycol           |          | 78120 | 324 |     |   | x |   |                                 |
| monomyristate                |          |       |     |     |   |   |   |                                 |
| polyethyleneglycol           | 0009004- | 78160 | 325 |     |   | x |   |                                 |
| monooleate                   | 96-0     |       |     |     |   |   |   |                                 |
| polyethyleneglycol           | 0009004- | 78240 | 326 |     |   | X |   | 148                             |

| monopalmitate                | 94-8     |       |     |  |   |      |                                   |
|------------------------------|----------|-------|-----|--|---|------|-----------------------------------|
| polyethyleneglycol stearate  |          | 79520 | 327 |  | X |      |                                   |
| polyethyleneglycol tridecyl  | 0009046- | 79600 | 328 |  | X | 5    | Polyethyleneglycol (EO ≤ 11)      |
| ether phosphate              | 01-9     |       |     |  |   |      | tridecyl ether phosphate (mono-   |
|                              |          |       |     |  |   |      | and dialkyl ester) with a maxi-   |
|                              |          |       |     |  |   |      | mum 10 % content of polyeth-      |
|                              |          |       |     |  |   |      | yleneglycol (EO ≤ 11)             |
|                              |          |       |     |  |   |      | tridecylether.                    |
| polyethyleneimine, butylated |          | 79760 | 329 |  | X | 6    |                                   |
| poly(3-nonyl-1,1-dioxo-1-    | 1010121- | 80510 | 330 |  | X |      | Only to be used as polymer pro-   |
| thiopropane-1,3-diyl)-block- | 89-7     |       |     |  |   |      | duction aid in polyethylene (PE), |
| poly(x-oleyl-7-hydroxy-1,5-  |          |       |     |  |   |      | polypropylene (PP) and polysty-   |
| diiminooctane-1,8-diyl),     |          |       |     |  |   |      | rene (PS)                         |
| process mixture with $x = 1$ |          |       |     |  |   |      |                                   |
| and/or 5, neutralised with   |          |       |     |  |   |      |                                   |
| dodecylbenzenesulfonic acid  |          |       |     |  |   |      |                                   |
| ethenol, homopolymer         | 0009002- |       | 331 |  | X |      |                                   |
|                              | 89-5     |       |     |  |   |      |                                   |
| polyvinylpyrrolidone         | 0009003- | 81500 | 332 |  | X |      | The substance shall meet the      |
|                              | 39-8     |       |     |  |   |      | purity criteria as laid down in   |
|                              |          |       |     |  |   |      | Commission Directive              |
|                              |          |       |     |  |   |      | 2008/84/EC (OJ L 253,             |
|                              |          |       |     |  |   |      | 20.9.2008, p. 1.)                 |
| 1,3-bis(3-                   | 0035674- | 81870 | 333 |  | X | 0,05 | 49                                |

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| octadecylureido)propane        | 65-8     |       |     |   |   |   |      |      |                                   |
|--------------------------------|----------|-------|-----|---|---|---|------|------|-----------------------------------|
| acrylic acid, propyl ester     | 0000925- | 11980 | 334 | х |   |   |      | (20) |                                   |
|                                | 60-0     |       |     |   |   |   |      |      |                                   |
| carbonic acid, cyclic propyl-  | 0000108- |       | 335 |   | X |   | 0,05 |      |                                   |
| ene ester                      | 32-7     |       |     |   |   |   |      |      |                                   |
| propylene oxide                | 0000075- | 24010 | 336 | x |   |   | NN   |      | 1 mg/kg in final product          |
|                                | 56-9     |       |     |   |   |   |      |      |                                   |
| gallic acid, propyl ester      | 0000121- | 55360 | 337 |   |   | X |      | (18) |                                   |
|                                | 79-9     |       |     |   |   |   |      |      |                                   |
| methacrylic acid, propyl ester | 0002210- | 21340 | 338 | x |   |   |      | (21) |                                   |
|                                | 28-8     |       |     |   |   |   |      |      |                                   |
| proteins, soy                  | 0009010- |       | 339 | x |   |   |      |      |                                   |
|                                | 10-0     |       |     |   |   |   |      |      |                                   |
| waxes, refined, derived from   |          | 95859 | 340 |   |   | X |      |      | Average molecular weight not      |
| petroleum based or synthetic   |          |       |     |   |   |   |      |      | less than 500 Da.                 |
| hydrocarbon feedstocks, high   |          |       |     |   |   |   |      |      | Viscosity at 100 °C not less than |
| viscosity                      |          |       |     |   |   |   |      |      | 11 cSt (11 $\times$ 10-6 m2/s).   |
|                                |          |       |     |   |   |   |      |      | Content of mineral hydrocarbons   |
|                                |          |       |     |   |   |   |      |      | with Carbon number less than 25,  |
|                                |          |       |     |   |   |   |      |      | not more than 5 % (w/w).          |
| reaction product of di-tert-   | 0119345- | 83595 | 341 |   |   | x | 18   |      | Composition:                      |
| butylphosphonite with bi-      | 01-6     |       |     |   |   |   |      |      | — 4,4'-biphenylene-bis[0,0-       |
| phenyl, obtained by conden-    |          |       |     |   |   |   |      |      | bis(2,4-di-tert-                  |
| sation of 2,4-di-tert-         |          |       |     |   |   |   |      |      | butylphenyl)phosphonite] (CAS     |

| butylphenol with Friedel    |  |  |  |  | No 0038613-77-3) (36-46 % w/w    |
|-----------------------------|--|--|--|--|----------------------------------|
|                             |  |  |  |  |                                  |
| Craft reaction product of   |  |  |  |  | (*)),                            |
| phosphorous trichloride and |  |  |  |  | — 4,3'-biphenylene-bis[0,0-      |
| biphenyl                    |  |  |  |  | bis(2,4-di-tert-                 |
|                             |  |  |  |  | butylphenyl)phosphonite] (CAS    |
|                             |  |  |  |  | No 0118421-00-4) (17-23 % w/w    |
|                             |  |  |  |  | (*)),                            |
|                             |  |  |  |  | — 3,3'-biphenylene-bis[0,0-      |
|                             |  |  |  |  | bis(2,4-di-tert-                 |
|                             |  |  |  |  | butylphenyl)phosphonite] (CAS    |
|                             |  |  |  |  | No 0118421-01-5) (1-5 % w/w      |
|                             |  |  |  |  | (*)),                            |
|                             |  |  |  |  | — 4-biphenylene-0,0-bis(2,4-di-  |
|                             |  |  |  |  | tert-butylphenyl)phosphonite     |
|                             |  |  |  |  | (CAS No 0091362-37-7) (11-       |
|                             |  |  |  |  | 19 % w/w (*)),                   |
|                             |  |  |  |  | — tris(2,4-di-tert-              |
|                             |  |  |  |  | butylphenyl)phosphite (CAS No    |
|                             |  |  |  |  | 0031570-04-4) (9-18 % w/w (*)),  |
|                             |  |  |  |  | — 4,4'-biphenylene-0,0-bis(2,4-  |
|                             |  |  |  |  | di-tert-butylphenyl)phosphonate- |
|                             |  |  |  |  | 0,0-bis(2,4-di-tert-             |
|                             |  |  |  |  | butylphenyl)phosphonite (CAS     |
|                             |  |  |  |  | No 0112949-97-0) (< 5 % w/w      |
|                             |  |  |  |  | (*))                             |

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|                                |          |       | 1   |   |   |   |    |     | ,                                 |
|--------------------------------|----------|-------|-----|---|---|---|----|-----|-----------------------------------|
|                                |          |       |     |   |   |   |    |     | (*) Quantity of substance         |
|                                |          |       |     |   |   |   |    |     | used/quantity of formulation      |
|                                |          |       |     |   |   |   |    |     | Other specifications:             |
|                                |          |       |     |   |   |   |    |     | — Phosphor content of min.        |
|                                |          |       |     |   |   |   |    |     | 5,4 % to max. 5,9 %,              |
|                                |          |       |     |   |   |   |    |     | — Acid value of max. 10 mg        |
|                                |          |       |     |   |   |   |    |     | KOH per gram,                     |
|                                |          |       |     |   |   |   |    |     | — Melt range of 85–110 °C,        |
| reaction products of oleic     | 0068442- | 83599 | 342 |   |   | x |    | (7) |                                   |
| acid, 2-mercaptoethyl ester,   | 12-6     |       |     |   |   |   |    |     |                                   |
| with dichlorodimethyltin,      |          |       |     |   |   |   |    |     |                                   |
| sodium sulphide and tri-       |          |       |     |   |   |   |    |     |                                   |
| chloromethyltin                |          |       |     |   |   |   |    |     |                                   |
| resorcinol diglycidyl ether    | 0000101- | 24073 | 343 | x |   |   | NN |     |                                   |
|                                | 90-6     |       |     |   |   |   |    |     |                                   |
| castor oil, hydrogenated       | 0008001- | 14470 | 344 | x |   | X |    |     |                                   |
|                                | 78-3     | 43120 |     |   |   |   |    |     |                                   |
| castor oil fatty acids, hydro- | 0061790- | 14453 | 345 | X |   |   |    |     |                                   |
| genated                        | 39-4     |       |     |   |   |   |    |     |                                   |
| carbon black                   | 0001333- | 42080 | 346 |   | X | X |    |     | Primary particles of 10 – 300 nm  |
|                                | 86-4     |       |     |   |   |   |    |     | which are aggregated to a size of |
|                                |          |       |     |   |   |   |    |     | 100 – 1 200 nm which may form     |
|                                |          |       |     |   |   |   |    |     | agglomerates within the size dis- |
|                                |          |       |     |   |   |   |    |     | tribution of 300 nm – mm.         |
|                                |          |       |     |   |   |   |    |     | Toluene extractables: maximum     |

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the size dis-mm.
les: maximum

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|--------------------------|----------|-------|-----|---|---|---|----|------------------------------------|
|                          |          |       |     |   |   |   |    | 0,1 %, determined according to     |
|                          |          |       |     |   |   |   |    | ISO method 6209.                   |
|                          |          |       |     |   |   |   |    | UV absorption of cyclohexane       |
|                          |          |       |     |   |   |   |    | extract at 386 nm: < 0,02 AU for   |
|                          |          |       |     |   |   |   |    | a 1 cm cell or < 0,1 AU for a 5 cm |
|                          |          |       |     |   |   |   |    | cell, determined according to a    |
|                          |          |       |     |   |   |   |    | generally recognised method of     |
|                          |          |       |     |   |   |   |    | analysis.                          |
|                          |          |       |     |   |   |   |    | Benzo(a)pyrene content: max        |
|                          |          |       |     |   |   |   |    | 0,25 mg/kg carbon black.           |
| nitric acid              | 0007697- | 68140 | 347 |   |   | x |    |                                    |
|                          | 37-2     |       |     |   |   |   |    |                                    |
| Acid Yellow 3 (Quinoline | 0008004- |       | 348 |   | x |   | 30 |                                    |
| Yellow)                  | 92-0     |       |     |   |   |   |    |                                    |
|                          | 0095193- |       |     |   |   |   |    |                                    |
|                          | 83-2     |       |     |   |   |   |    |                                    |
| Acid Yellow 23           | 0001934- |       | 349 |   | x |   |    |                                    |
|                          | 21-0     |       |     |   |   |   |    |                                    |
| Acid Red 51              | 0012227- |       | 350 |   | X |   | 6  |                                    |
|                          | 78-0     |       |     |   |   |   |    |                                    |
|                          | 0016423- |       |     |   |   |   |    |                                    |
|                          | 68-0     |       |     |   |   |   |    |                                    |
| Shellac                  | 0009000- | 24440 | 351 | X |   |   |    |                                    |
|                          | 59-3     | 85550 |     |   |   |   |    | ر و                                |

|                            |                 |       | I   |   |   | I |      |      |                                   |
|----------------------------|-----------------|-------|-----|---|---|---|------|------|-----------------------------------|
| silicon dioxide            | 0007631-        | 86240 | 352 |   | X | X |      |      | For synthetic amorphous silicon   |
|                            | 86-9            |       |     |   |   |   |      |      | dioxide: primary particles of 1 – |
|                            | 0112945         |       |     |   |   |   |      |      | 100 nm which are aggregated to a  |
|                            | <del>52-5</del> |       |     |   |   |   |      |      | size of $0.1 - 1 \mu m$ which may |
|                            |                 |       |     |   |   |   |      |      | form agglomerates within the size |
|                            |                 |       |     |   |   |   |      |      | distribution of 0,3 µm to the mm  |
|                            |                 |       |     |   |   |   |      |      | size.                             |
| syrups, hydrolysed starch, | 0068425-        | 24903 | 353 | X |   |   |      |      | In compliance with the purity     |
| hydrogenated               | 17-2            |       |     |   |   |   |      |      | criteria for maltitol syrup E     |
|                            |                 |       |     |   |   |   |      |      | 965(ii) as laid down in Commis-   |
|                            |                 |       |     |   |   |   |      |      | sion Directive 2008/60/EC (5)     |
| soybean oil, epoxidised    | 0008013-        | 88640 | 354 | X |   | X | 60   | (29) | Oxirane < 8 %, iodine number <    |
|                            | 07-8            |       |     |   |   |   |      |      | 6.                                |
| starch, oxidised           | 0065996-        |       | 355 |   |   | x |      |      |                                   |
|                            | 62-5            |       |     |   |   |   |      |      |                                   |
| tallow                     | 0061789-        | 92100 | 356 |   |   | x |      |      |                                   |
|                            | 97-7            |       |     |   |   |   |      |      |                                   |
| tall oil                   | 0008002-        | 24905 | 357 | X |   | X |      |      |                                   |
|                            | 26-4            |       |     |   |   |   |      |      |                                   |
| terephthalic acid          | 0000100-        | 24910 | 358 | X |   |   | 7,5  |      |                                   |
|                            | 21-0            |       |     |   |   |   |      |      |                                   |
| terpinolene                | 0000586-        |       | 359 |   |   | X | 0,05 |      |                                   |
|                            | 62-9            |       |     |   |   |   |      |      |                                   |
| glycoluril, 1,3,4,6-       | 0005395-        |       | 360 |   |   | X | 0,05 |      | ્ર્જ                              |

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| tetrakis(hydroxymethyl)-      | 50-6     |       |     |   |   |   |     |      |                                   |
|-------------------------------|----------|-------|-----|---|---|---|-----|------|-----------------------------------|
| 4-(1,1,3,3-                   | 0000140- |       | 361 | X |   |   | NN  |      |                                   |
| tetramethylbutyl)phenol       | 66-9     |       |     |   |   |   |     |      |                                   |
| 2,4,7,9-tetramethyl-5-        | 0000126- |       | 362 | X |   | Х |     | (33) |                                   |
| decyne-4,7-diol               | 86-3     |       |     |   |   |   |     |      |                                   |
| polyethyleneglycol- 2,4,7,9-  | 0009014- | 79550 | 363 |   |   | х |     | (34) |                                   |
| tetramethyl-5-decyn-4,7-diol  | 85-1     |       |     |   |   |   |     |      |                                   |
| ether                         |          |       |     |   |   |   |     |      |                                   |
| thiodipropionic acid,         | 0016545- | 93360 | 364 |   |   | X |     | (12) |                                   |
| ditetradecyl ester            | 54-3     |       |     |   |   |   |     |      |                                   |
| titanium dioxide, coated with |          | 93450 | 365 |   |   | X |     |      | The content of the surface treat- |
| a copolymer of n-             |          |       |     |   |   |   |     |      | ment copolymer of the coated      |
| octyltrichlorosilane and      |          |       |     |   |   |   |     |      | titanium dioxide is less than 1 % |
| [ami-                         |          |       |     |   |   |   |     |      | w/w                               |
| notris(methylenephosphonic    |          |       |     |   |   |   |     |      |                                   |
| acid), penta sodium salt]     |          |       |     |   |   |   |     |      |                                   |
| toluene                       | 0000108- | 93540 | 366 |   | x |   | 1,2 |      |                                   |
|                               | 88-3     |       |     |   |   |   |     |      |                                   |
| benzene, 1,3-                 | 0026471- | 25208 | 367 | x |   |   |     | (15) | 1 mg/kg in final product ex-      |
| diisocyanatomethyl-           | 62-5     |       |     |   |   |   |     |      | pressed as isocyanate moiety      |
| 2,4-toluene diisocyanate      | 0000584- | 25210 | 368 | x |   |   |     | (15) | 1 mg/kg in final product ex-      |
|                               | 84-9     |       |     |   |   |   |     |      | pressed as isocyanate moiety      |
| 2,4-toluene diisocyanate      | 0026747- | 25270 | 369 | x |   |   |     | (15) | 1 mg/kg in final product ex-      |
| dimer                         | 90-0     |       |     |   |   |   |     |      | pressed as isocyanate moiety      |

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|                                |          | 2.72.45 |     |   |  |   |      |      |                                |
|--------------------------------|----------|---------|-----|---|--|---|------|------|--------------------------------|
| 2,6-toluene diisocyanate       | 0000091- | 25240   | 370 | X |  |   |      | (15) | 1 mg/kg in final product ex-   |
|                                | 08-7     |         |     |   |  |   |      |      | pressed as isocyanate moiety   |
| tri-n-butyl acetyl citrate     | 0000077- | 93760   | 371 |   |  | X |      | (29) |                                |
|                                | 90-7     |         |     |   |  |   |      |      |                                |
| triethanolamine                | 0000102- | 94000   | 372 | х |  | Х | 0,05 |      | SMG expressed as the sum of    |
|                                | 71-6     |         |     |   |  |   |      |      | triethanolamine and the hydro- |
|                                |          |         |     |   |  |   |      |      | chloride adduct expressed as   |
|                                |          |         |     |   |  |   |      |      | triethanolamine                |
| citric acid, triethyl ester    | 0000077- | 44640   | 373 |   |  | X |      | (29) |                                |
|                                | 93-0     |         |     |   |  |   |      |      |                                |
| methacrylic acid, diester with | 0000109- |         | 374 | X |  |   | 0,05 |      |                                |
| triethylene glycol             | 16-0     |         |     |   |  |   |      |      |                                |
| phosphoric acid, tris(2-       | 0000078- |         | 375 |   |  | X | 0,05 |      |                                |
| ethylhexyl) ester              | 42-2     |         |     |   |  |   |      |      |                                |
| phosphorous acid, triethyl     | 0000122- | 23175   | 376 | X |  |   | NN   |      | 1 mg/kg in final product       |
| ester                          | 52-1     |         |     |   |  |   |      |      |                                |
| phosphoric acid, triisobutyl   | 0000126- |         | 377 |   |  | X | 0,05 |      |                                |
| ester                          | 71-6     |         |     |   |  |   |      |      |                                |
| trimellitic acid               | 0000528- | 13050   | 378 | X |  |   |      | (19) |                                |
|                                | 44-9     | 25540   |     |   |  |   |      |      |                                |
| trimellitic anhydride          | 0000552- | 25550   | 379 | х |  |   |      | (19) |                                |
|                                | 30-7     |         |     |   |  |   |      |      |                                |
| 2,2,4-trimethylhexane-1,6-     | 0016938- | 25573   | 380 | х |  |   | <br> | (15) | 1 mg/kg in final product ex-   |
| diisocyanate                   | 22-0     |         |     |   |  |   |      |      | pressed as isocyanate moiety   |

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| 2,4,4-trimethylhexane-1,6-      | 0015646- | 25574 | 381 | X |   |   |      | (15) | 1 mg/kg in final product ex-     |
|---------------------------------|----------|-------|-----|---|---|---|------|------|----------------------------------|
| diisocyanate                    | 96-5     |       |     |   |   |   |      |      | pressed as isocyanate moiety     |
| 2,2,4-trimethyl-1,3-            | 0006846- | 95020 | 382 |   | x | X | 5    |      |                                  |
| pentanediol diisobutyrate       | 50-0     |       |     |   |   |   |      |      |                                  |
| tripropyleneglycol              | 0025498- |       | 383 |   | X |   | 0,05 |      |                                  |
| monomethyl ether                | 49-1     |       |     |   |   |   |      |      |                                  |
| 2,4,6-tris(tert-butyl)phenyl-2- | 0161717- | 95270 | 384 |   |   | X | 2    |      | expressed as sum of phosphite,   |
| butyl-2-ethyl-1,3-propanediol   | 32-4     |       |     |   |   |   |      |      | phosphate and the hydrolysis     |
| phosphite                       |          |       |     |   |   |   |      |      | product TTBP                     |
| vanillin                        | 0000121- | 95680 | 385 |   |   | X |      |      |                                  |
|                                 | 33-5     |       |     |   |   |   |      |      |                                  |
| vinyl acetate-                  | 0025086- |       | 386 |   |   | X |      |      |                                  |
| vinylpyrrolidone, copolymer     | 89-9     |       |     |   |   |   |      |      |                                  |
| vinyl chloride                  | 0000075- | 26050 | 387 | x |   |   | NN   |      | 1 mg/kg in final product         |
|                                 | 01-4     |       |     |   |   |   |      |      |                                  |
| methyl vinyl ether              | 0000107- |       | 388 | x |   |   | 0,05 |      |                                  |
|                                 | 25-5     |       |     |   |   |   |      |      |                                  |
| vinylpyrrolidone                | 0000088- | 26230 | 389 | X |   |   | NN   |      |                                  |
|                                 | 12-0     | 95810 |     |   |   |   |      |      |                                  |
| vinyltriethoxysilane            | 0000078- | 26305 | 390 | X |   |   | 0,05 |      |                                  |
|                                 | 08-0     |       |     |   |   |   |      |      |                                  |
| waxes, paraffinic, refined,     |          | 95858 | 391 |   |   | X | 0,05 |      | Not to be used in direct contact |
| derived from petroleum          |          |       |     |   |   |   |      |      | with fatty foods.                |
| based or synthetic hydrocar-    |          |       |     |   |   |   |      |      | - Average molecular weight not   |

lar weight not established to the control of the co

|                                 |          | 1     |     |  |   |   |    |      |   |
|---------------------------------|----------|-------|-----|--|---|---|----|------|---|
| bon feedstocks, low viscosity   |          |       |     |  |   |   |    |      | less than 350 Da.   |
|                                 |          |       |     |  |   |   |    |      | - Viscosity at 100 °C not less than                       |
|                                 |          |       |     |  |   |   |    |      | $2.5 \text{ cSt } (2.5 \times 10\text{-}6 \text{ m2/s}).$ |
|                                 |          |       |     |  |   |   |    |      | - Content of hydrocarbons with                            |
|                                 |          |       |     |  |   |   |    |      | Carbon number less than 25, not                           |
|                                 |          |       |     |  |   |   |    |      | more than 40 % (w/w).                                     |
| water                           | 0007732- | 26360 | 392 |  | X | X |    |      | In compliance with Directive                              |
|                                 | 18-5     | 95855 |     |  |   |   |    |      | 98/83/EC (2)  |
| hydrogen peroxide               | 0007722- |       | 393 |  |   | X |    |      |   |
|                                 | 84-1     |       |     |  |   |   |    |      |   |
| white mineral oils, paraffinic, |          | 95883 | 394 |  |   | X |    |      | Average molecular weight not                              |
| derived from petroleum          |          |       |     |  |   |   |    |      | less than 480 Da.   |
| based hydrocarbon feed-         |          |       |     |  |   |   |    |      | Viscosity at 100 °C not less than                         |
| stocks                          |          |       |     |  |   |   |    |      | $8.5 \text{ cSt } (8.5 \times 10\text{-}6 \text{ m2/s}).$ |
|                                 |          |       |     |  |   |   |    |      | Content of mineral hydrocarbons                           |
|                                 |          |       |     |  |   |   |    |      | with Carbon number less than 25,                          |
|                                 |          |       |     |  |   |   |    |      | not more than 5 % (w/w).                                  |
| xylene                          | 0001330- | 26370 | 395 |  | X |   | 1  |      |   |
|                                 | 20-7     | 95945 |     |  |   |   |    |      |   |
| tin chloride                    | 0007772- |       | 396 |  |   | X | 12 |      |   |
|                                 | 99-8     |       |     |  |   |   |    |      |   |
| silver chloride (20% w/w)       |          | 86430 | 397 |  |   | X |    | (36) |   |
| coated onto titanium dioxide    |          |       |     |  |   |   |    |      |   |
| (80% w/w)                       |          |       |     |  |   |   |    |      | ر و   |

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| curcumin                      | 0000458- | 398 | X |  |  |       |
|-------------------------------|----------|-----|---|--|--|-------|
|                               | 37-7     |     |   |  |  |       |
| riboflavin                    | 0000083- | 399 | X |  |  |       |
|                               | 88-5     |     |   |  |  |       |
| riboflavin-5'-phosphate       | 0000130- | 400 | X |  |  |       |
|                               | 40-5     |     |   |  |  |       |
| Orange Yellow S               | 0002783- | 401 | X |  |  |       |
|                               | 94-0     |     |   |  |  |       |
|                               | 0015790- |     |   |  |  |       |
|                               | 07-5     |     |   |  |  |       |
| cochineal, carminic acid,     | 0001390- | 402 | X |  |  |       |
| carmine (Natural Red 4)       | 65-4     |     |   |  |  |       |
| Patent Blue V                 | 0020262- | 403 | X |  |  |       |
|                               | 76-4     |     |   |  |  |       |
| indigo carmine (indigotine,   | 0000860- | 404 | X |  |  |       |
| FD&C Blue 2)                  | 22-0     |     |   |  |  |       |
|                               | 0016521- |     |   |  |  |       |
|                               | 38-3     |     |   |  |  |       |
| chlorophylls and chlorophyl-  | 0001406- | 405 | X |  |  |       |
| lins: (i) Chlorophylls (ii)   | 65-1     |     |   |  |  |       |
| Chlorophyllins                |          |     |   |  |  |       |
| copper complexes of chloro-   | 0012262- | 406 | X |  |  |       |
| phylls and chlorophyllins (i) | 74-7     |     |   |  |  |       |
| Copper complexes of chloro-   |          |     |   |  |  | . < e |

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|------------------------------|----------|-----|---|---|--|---|-----|
| phylls (ii) Copper complexes |          |     |   |   |  |   |     |
| of chlorophyllins            |          |     |   |   |  |   |     |
|                              |          |     |   |   |  |   |     |
| Green S                      | 0003087- | 407 | X |   |  |   |     |
|                              | 16-9     |     |   |   |  |   |     |
| plain caramel                | 0008028- | 408 | X |   |  |   |     |
|                              | 89-5     |     |   |   |  |   |     |
|                              | 0008028- | 409 | х |   |  |   |     |
| caustic sulphite caramel     | 89-5     |     |   |   |  |   |     |
|                              | 0008028- | 410 | х |   |  |   |     |
| ammonia caramel              | 89-5     |     |   |   |  |   |     |
|                              | 0008028- | 411 | х |   |  |   |     |
| sulphite ammonia caramel     | 89-5     |     |   |   |  |   |     |
| carotenes                    | 0000036- | 412 | X |   |  |   |     |
| i) mixed carotenes ii) Beta- | 88-4     |     |   |   |  |   |     |
| carotene                     |          |     |   |   |  |   |     |
|                              | 0001393- | 413 | х |   |  |   |     |
| annatto                      | 63-1     |     |   |   |  |   |     |
|                              | 0006983- | 414 | х |   |  |   |     |
| bixin                        | 79-5     |     |   |   |  |   |     |
|                              | 0000542- | 415 | X |   |  |   |     |
| norbixin                     | 40-5     |     |   |   |  |   |     |
| paprika extract              |          | 416 | Х |   |  |   |     |
|                              | 0000465- | 417 | Х |   |  |   |     |
| capsanthin                   | 42-9     |     |   |   |  |   | ررق |

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|----------|--|--|--|--|--|---|--|---|---|---|
| 0000470- |  | 418  |  | X  |  |   |  |   |   |   |
| 38-2     |  |  |  |  |  |   |  |   |   |   |
| 0000502- |  | 419  |  | X  |  |   |  |   |   |   |
| 65-8     |  |  |  |  |  |   |  |   |   |   |
| 0001107- |  | 420  |  | X  |  |   |  |   |   |   |
| 26-2     |  |  |  |  |  |   |  |   |   |   |
| 0001109- |  | 421  |  | X  |  |   |  |   |   |   |
| 11-1     |  |  |  |  |  |   |  |   |   |   |
| 0000127- |  | 422  |  | X  |  |   |  |   |   |   |
| 40-2     |  |  |  |  |  |   |  |   |   |   |
| 0000514- |  | 423  |  | X  |  |   |  |   |   |   |
| 78-3     |  |  |  |  |  |   |  |   |   |   |
| 0007659- |  | 424  |  | X  |  |   |  |   |   |   |
| 95-2     |  |  |  |  |  |   |  |   |   |   |
| 0011029- |  | 425  |  | X  |  |   |  |   |   |   |
| 12-2     |  |  |  |  |  |   |  |   |   |   |
| 0007440- |  | 426  |  | X  |  |   |  |   | (36)  |   |
| 22-4     |  |  |  |  |  |   |  |   |   |   |
| 0007440- |  | 427  |  | X  |  |   |  |   |   |   |
| 57-5     |  |  |  |  |  |   |  |   |   |   |
| 0005281- |  | 428  |  | X  |  |   |  |   |   |   |
| 04-9     |  |  |  |  |  |   |  |   |   |   |
|          |  | 430  |  | X  |  |   |  |   |   |   |
| 0007616- |  | 431  |  | X  |  |   |  |   |   | ررق   |
|          | 38-2<br>0000502-<br>65-8<br>0001107-<br>26-2<br>0001109-<br>11-1<br>0000127-<br>40-2<br>0000514-<br>78-3<br>0007659-<br>95-2<br>0011029-<br>12-2<br>0007440-<br>22-4<br>0007440-<br>57-5<br>0005281-<br>04-9 | 38-2<br>0000502-<br>65-8<br>0001107-<br>26-2<br>0001109-<br>11-1<br>0000127-<br>40-2<br>0000514-<br>78-3<br>0007659-<br>95-2<br>0011029-<br>12-2<br>0007440-<br>22-4<br>0007440-<br>57-5<br>0005281-<br>04-9 | 38-2         0000502-       419         65-8       420         26-2       421         11-1       421         11-1       422         40-2       423         78-3       424         95-2       425         12-2       426         22-4       427         57-5       428         04-9       430 | 38-2       419         65-8       419         0001107-       420         26-2       421         11-1       422         40-2       423         78-3       424         95-2       424         0007659-       425         12-2       426         22-4       427         57-5       428         04-9       430 | 38-2       419       x         65-8       20001107-       420       x         26-2       20001109-       421       x         11-1       3000127-       422       x         40-2       423       x         0000514-       423       x         78-3       30007659-       424       x         95-2       30011029-       425       x         12-2       30007440-       426       x         22-4       30007440-       427       x         57-5       30005281-       428       x         04-9       430       x | 38-2       419       x         65-8       419       x         0001107-       420       x         26-2       0001109-       421       x         11-1       0000127-       422       x         40-2       423       x       x         0007659-       424       x         95-2       0011029-       425       x         12-2       0007440-       426       x         22-4       0007440-       427       x         57-5       0005281-       428       x         04-9       430       x | 38-2       419       x         65-8       420       x         0001107-       420       x         26-2       2       2         0001109-       421       x         11-1       3       3         0000127-       422       x         40-2       423       x         0000514-       423       x         78-3       3       3         0007659-       424       x         95-2       3       425       x         12-2       3       3         0007440-       426       x         22-4       428       x         0005281-       428       x         04-9       430       x | 38-2       419       x         65-8       419       x         0001107-       420       x         26-2       2       2         0001109-       421       x         11-1       3       3         0000127-       422       x         40-2       423       x         0000514-       423       x         78-3       3       3         0007659-       424       x         95-2       3       425       x         12-2       3       426       x         0007440-       426       x       3         57-5       3       428       x         04-9       430       x       3 | 38-2       419       x         0000502-       419       x         65-8       20001107-       420       x         26-2       20001109-       421       x         11-1       11-1       11-1       11-1         0000127-       422       x       12-2         0000514-       423       x       12-2         0011029-       425       x       12-2         0007440-       426       x       12-2         0007440-       427       x       12-2         0005281-       428       x       12-2         04-9       430       x       12-2 | 38-2       419       x         65-8       2000107-       420       x         26-2       20001109-       421       x         11-1       3000127-       422       x         40-2       423       x       3         0000514-       423       x       3         78-3       424       x       3         95-2       424       x       3         12-2       425       x       3         0007440-       426       x       3         57-5       428       x       3         0005281-       430       x       430 |

| 22-0     |  |  |  |  |  |   |  |  |  |   |
|----------|--|--|--|--|--|---|--|--|--|---|
| 0000119- |  | 432  |  | X  |  |   |  |  |  |   |
| 13-1     |  |  |  |  |  |   |  |  |  |   |
| 0009002- |  | 434  |  |  |  | X   |  |  |  |   |
| 18-0     |  |  |  |  |  |   |  |  |  |   |
| 0009000- |  | 435  |  |  |  | X   |  |  |  |   |
| 07-1     |  |  |  |  |  |   |  |  |  |   |
|          |  | 436  |  |  |  | X   |  |  |  |   |
| 0009000- |  | 437  |  |  |  | Х   |  |  |  |   |
| 36-6     |  |  |  |  |  |   |  |  |  |   |
| 0037220- |  | 438  |  |  |  | X   |  |  |  |   |
| 17-0     |  |  |  |  |  |   |  |  |  |   |
| 0068475- |  | 439  |  |  | X  |   |  |  |  |   |
| 37-6     |  |  |  |  |  |   |  |  |  |   |
| 0025339- |  | 440  |  |  |  | X   |  |  |  |   |
| 99-5     |  |  |  |  |  |   |  |  |  |   |
|          |  | 441  |  |  | х  |   |  |  |  |   |
|          |  |  |  |  |  |   |  |  |  |   |
|          |  |  |  |  |  |   |  |  |  |   |
| 0000087- |  | 442  |  |  |  | X   |  |  |  |   |
| 99-0     |  |  |  |  |  |   |  |  |  |   |
| 0000089- |  | 443  |  |  |  | х   |  |  |  |   |
| 65-6     |  |  |  |  |  |   |  |  |  |   |
| 0000110- |  | 444  |  |  | X  |   |  | 1  |  | benzene content < 0.1% (mass)   |
|          | 0000119-<br>13-1<br>0009002-<br>18-0<br>0009000-<br>07-1<br>0009000-<br>36-6<br>0037220-<br>17-0<br>0068475-<br>37-6<br>0025339-<br>99-5<br>0000087-<br>99-0<br>0000089-<br>65-6 | 0000119-<br>13-1<br>0009002-<br>18-0<br>0009000-<br>07-1<br>0009000-<br>36-6<br>0037220-<br>17-0<br>0068475-<br>37-6<br>0025339-<br>99-5<br>0000087-<br>99-0<br>0000089-<br>65-6 | 0000119-       432         13-1       0009002-         18-0       434         0009000-       435         07-1       436         0009000-       437         36-6       0037220-         17-0       438         17-0       439         37-6       440         99-5       441         0000087-       442         99-0       0000089-         65-6       443 | 0000119-       432         13-1       434         0009002-       434         18-0       435         0009000-       435         07-1       436         0009000-       437         36-6       36-6         0037220-       438         17-0       439         37-6       440         99-5       441         0000087-       442         99-0       0000089-         65-6       443 | 0000119-<br>13-1     432     x       0009002-<br>18-0     434     18-0       0009000-<br>07-1     435     0009000-<br>437       36-6     438     17-0       0068475-<br>37-6     439     37-6       0025339-<br>99-5     440     99-5       441     442     99-0       0000087-<br>99-0     443     443       65-6     443 | 0000119-       432       x         13-1       0009002-       434         18-0       435       0009000-         07-1       436       0009000-         36-6       437       36-6         0037220-       438       17-0         0068475-       439       x         37-6       440       99-5         441       x         0000087-       442         99-0       0000089-         65-6       443 | 0000119-       432       x         13-1       x         0009002-       434       x         18-0       x         0009000-       435       x         07-1       436       x         0009000-       437       x         36-6       x       x         0037220-       438       x         17-0       x       x         0068475-       439       x         37-6       x       x         0025339-       440       x         99-5       441       x         0000087-       442       x         99-0       443       x         0000089-       443       x | 0000119-       432       x         13-1       x       x         0009002-       434       x         18-0       x       x         0009000-       435       x         0009000-       437       x         36-6       x       x         0037220-       438       x         17-0       x       x         0068475-       339       x         37-6       x       x         0025339-       440       x         99-5       441       x         0000087-       442       x         0000089-       443       x | 0000119-       432       x         13-1       x       x         0009002-       434       x         18-0       x       x         0009000-       435       x         0009000-       437       x         36-6       x       x         0037220-       438       x         17-0       x       x         0068475-       439       x         37-6       x       x         0025339-       440       x         99-5       441       x         0000087-       442       x         0000089-       443       x | 0000119-<br>13-1       432       x         0009002-<br>18-0       434       x         0009000-<br>07-1       435       x         0009000-<br>36-6       437       x         0037220-<br>17-0       438       x         17-0       439       x         37-6       x       x         0025339-<br>99-5       440       x         0000087-<br>99-0       442       x         0000089-<br>65-6       443       x |

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|                              | 82-7     |     |   |   |   |   |      |      |                                 |
|------------------------------|----------|-----|---|---|---|---|------|------|---------------------------------|
| maltitol                     | 0000585- | 445 |   |   | Х |   |      |      |                                 |
|                              | 88-6     |     |   |   |   |   |      |      |                                 |
| acetic acid, propyl ester    | 0000109- | 446 |   | x |   |   |      |      |                                 |
|                              | 60-4     |     |   |   |   |   |      |      |                                 |
| 2,2-bis(4-hydroxyphenyl)     | 0055818- | 447 | X |   |   |   | 0,05 |      | Only for use on the non food-   |
| propane, oligomeric reaction | 57-0     |     |   |   |   |   |      |      | contact side.                   |
| product with epichlorohydrin |          |     |   |   |   |   |      |      |                                 |
| and acrylic acid             |          |     |   |   |   |   |      |      |                                 |
| glycerol propoxylated,       | 0052408- | 448 | X |   |   |   | 0,05 |      | Only for use on the non food-   |
| triacrylate                  | 84-1     |     |   |   |   |   |      |      | contact side.                   |
| 2,5,8,11-tetramethyl-6-      | 0068227- | 449 |   |   | х |   |      | (33) |                                 |
| dodecyne-5,8-diol            | 33-8     |     |   |   |   |   |      |      |                                 |
| 2,4,7,9-tetramethyl-5-       | 0182211- | 450 |   |   | X |   |      | (34) |                                 |
| decyne-4,7-                  | 02-5     |     |   |   |   |   |      |      |                                 |
| dioldi(polyoxyethylen-       |          |     |   |   |   |   |      |      |                                 |
| polyoxypropylene)ether       |          |     |   |   |   |   |      |      |                                 |
| 1,1,1-trimethylolpropane,    | 0028961- | 451 | X |   | x |   | 0,05 |      | Only for use on the non food-   |
| ethoxylated, triacrylate     | 43-5     |     |   |   |   |   |      |      | contact side.                   |
| (methylamino)diethane-2,1-   |          | 452 |   |   |   | X | 0,05 |      | Only for use on the non food-   |
| diylbis(4-dimethylamino      | 0925246- |     |   |   |   |   |      |      | contact side.                   |
| amino benzoate)              | 00-0     |     |   |   |   |   |      |      |                                 |
| tris{4-[(4-                  | 0953084- | 453 |   |   |   | X | 0,05 |      | SMG expressed as sum of Tris{4- |
| acetylphenyl)sulfanyl]phenyl | 13-4     |     |   |   |   |   |      |      | [(4-                            |

|                                | 1 |     |  |   |  | I |                                     |
|--------------------------------|---|-----|--|---|--|---|-------------------------------------|
| }sulfonium hexafluorophos-     |   |     |  |   |  |   | acetylphenyl)sulfanyl]phenyl}sulf   |
| phate                          |   |     |  |   |  |   | onium hexafluorophosphate           |
|                                |   |     |  |   |  |   | (CAS-No.: 953084-13-4) und 1-       |
|                                |   |     |  |   |  |   | (4-Phenylsulfanyl-phenyl)-          |
|                                |   |     |  |   |  |   | ethanone (CAS-No.: 10169-55-8).     |
|                                |   |     |  |   |  |   | A transfer of 1-(4-{4-[4-(4-acetyl- |
|                                |   |     |  |   |  |   | phenylsulfanyl)-phenylsulfanyl]-    |
|                                |   |     |  |   |  |   | phenylsulfanyl}phenyl)-ethanon      |
|                                |   |     |  |   |  |   | into food shall not be detectable.  |
|                                |   |     |  |   |  |   | Only for use on the non food-       |
|                                |   |     |  |   |  |   | contact side.                       |
| acetic acid esters of mono-    |   | 454 |  | X |  |   |                                     |
| and diglycerides of fatty      |   |     |  |   |  |   |                                     |
| acids                          |   |     |  |   |  |   |                                     |
| lactic acid esters of mono-    |   | 455 |  | X |  |   |                                     |
| and diglycerides of fatty      |   |     |  |   |  |   |                                     |
| acids                          |   |     |  |   |  |   |                                     |
| citric acid esters of mono-    |   | 456 |  | X |  |   |                                     |
| and diglycerides of fatty      |   |     |  |   |  |   |                                     |
| acids                          |   |     |  |   |  |   |                                     |
| mono- and diacetyl tartaric    |   | 457 |  | X |  |   |                                     |
| acid esters of mono- and       |   |     |  |   |  |   |                                     |
| diglycerides of fatty acids    |   |     |  |   |  |   |                                     |
| mixed acetic and tartaric acid |   | 458 |  | X |  |   |                                     |
| esters of mono- and diglycer-  |   |     |  |   |  |   | 24 / of                             |

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| ides of fatty acids |          |       |     |   |   |   |  |      |                                    |
|---------------------|----------|-------|-----|---|---|---|--|------|------------------------------------|
|                     | 0000123- |       | 459 |   |   | х |  | 0,05 |                                    |
| 2-octanol           | 96-6     |       |     |   |   |   |  |      |                                    |
|                     | 0000646- | 15260 | 460 | X |   |   |  | 0,05 |                                    |
| 1,10-decanediamine  | 25-3     |       |     |   |   |   |  |      |                                    |
|                     |          |       | 462 |   | х |   |  | NN   | May also be used as nanomaterial   |
|                     |          |       |     |   |   |   |  |      | according to Article 2 clause 1 No |
|                     | 0000081- |       |     |   |   |   |  |      | 9, provided that no transfer of    |
| Pigment Blue 60     | 77-6     |       |     |   |   |   |  |      | nanoparticles to food occurs.      |
|                     |          |       | 463 |   | x |   |  | NN   | May also be used as nanomaterial   |
|                     |          |       |     |   |   |   |  |      | according to Article 2 clause 1 No |
|                     | 0000147- |       |     |   |   |   |  |      | 9, provided that no transfer of    |
| Pigment Blue 15     | 14-8     |       |     |   |   |   |  |      | nanoparticles to food occurs.      |
|                     |          |       | 464 |   | X |   |  | NN   | May also be used as nanomaterial   |
|                     |          |       |     |   |   |   |  |      | according to Article 2 clause 1 No |
|                     | 0000147- |       |     |   |   |   |  |      | 9, provided that no transfer of    |
| Pigment Blue 15:3   | 14-8     |       |     |   |   |   |  |      | nanoparticles to food occurs.      |
|                     |          |       | 465 |   | x |   |  | NN   | May also be used as nanomaterial   |
|                     |          |       |     |   |   |   |  |      | according to Article 2 clause 1 No |
|                     | 0000147- |       |     |   |   |   |  |      | 9, provided that no transfer of    |
| Pigment Blue 15:4   | 14-8     |       |     |   |   |   |  |      | nanoparticles to food occurs.      |
|                     |          |       | 466 |   | x |   |  | NN   | May also be used as nanomaterial   |
|                     | 0000147- |       |     |   |   |   |  |      | according to Article 2 clause 1 No |
| Pigment Blue 15:6   | 14-8     |       |     |   |   |   |  |      | 9, provided that no transfer of    |

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|                   |          |     |   |    | nanoparticles to food occurs.       |
|-------------------|----------|-----|---|----|-------------------------------------|
|                   | 0000147- | 467 | X | NN | May also be used as nanomaterial    |
|                   | 14-8     |     |   |    | according to Article 2 clause 1 No  |
|                   | 0012239- |     |   |    | 9, provided that no transfer of     |
| Pigment Blue 15:1 | 87-1     |     |   |    | nanoparticles to food occurs.       |
|                   | 0000147- | 468 | x | NN | May also be used as nanomaterial    |
|                   | 14-8     |     |   |    | according to Article 2 clause 1 No  |
|                   | 0012239- |     |   |    | 9, provided that no transfer of     |
| Pigment Blue 15:2 | 87-1     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 469 | x | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0000471- |     |   |    | 9, provided that no transfer of     |
| Pigment White 18  | 34-1     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 470 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0000482- |     |   |    | 9, provided that no transfer of     |
| Natural Blue 1    | 89-3     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 471 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0000574- |     |   |    | 9, provided that no transfer of     |
| Pigment Blue 16   | 93-6     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 472 | x | NN | May also be used as nanomaterial    |
|                   | 0001047- |     |   |    | according to Article 2 clause 1 No  |
| Pigment Violet 19 | 16-1     |     |   |    | 9, provided that no transfer of 🗸 🗸 |

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|                  |          |     |   |    | nanoparticles to food occurs.         |
|------------------|----------|-----|---|----|---------------------------------------|
|                  |          | 473 | х | NN | May also be used as nanomaterial      |
|                  |          |     |   |    | according to Article 2 clause 1 No    |
|                  | 0001103- |     |   |    | 9, provided that no transfer of       |
| Pigment Red 49:2 | 39-5     |     |   |    | nanoparticles to food occurs.         |
|                  |          | 474 | x | NN | May also be used as nanomaterial      |
|                  |          |     |   |    | according to Article 2 clause 1 No    |
|                  | 0001309- |     |   |    | 9, provided that no transfer of       |
| Pigment Red 101  | 37-1     |     |   |    | nanoparticles to food occurs.         |
|                  |          | 476 | X | NN | May also be used as nanomaterial      |
|                  |          |     |   |    | according to Article 2 clause 1 No    |
|                  | 0001328- |     |   |    | 9, provided that no transfer of       |
| Pigment Green 7  | 53-6     |     |   |    | nanoparticles to food occurs.         |
|                  |          | 477 | X | NN | May also be used as nanomaterial      |
|                  |          |     |   |    | according to Article 2 clause 1 No    |
|                  | 0001330- |     |   |    | 9, provided that no transfer of       |
| Pigment Green 37 | 37-6     |     |   |    | nanoparticles to food occurs.         |
|                  |          | 478 | X | NN | May also be used as nanomaterial      |
|                  |          |     |   |    | according to Article 2 clause 1 No    |
|                  | 0001332- |     |   |    | 9, provided that no transfer of       |
| Pigment White 24 | 73-6     |     |   |    | nanoparticles to food occurs.         |
|                  |          | 479 | x | NN | May also be used as nanomaterial      |
|                  | 0001657- |     |   |    | according to Article 2 clause 1 No    |
| Pigment Yellow 4 | 16-5     |     |   |    | 9, provided that no transfer of 🗸 🗸 🗸 |

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|                   |          |     |   |    | nanoparticles to food occurs.      |
|-------------------|----------|-----|---|----|------------------------------------|
|                   |          | 480 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0002425- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 3     | 85-6     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 481 | x | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0002512- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 1  | 29-0     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 482 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0002786- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 170   | 76-7     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 483 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0002814- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 4     | 77-9     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 484 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0003089- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 202   | 17-6     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 486 | X | NN | May also be used as nanomaterial   |
|                   | 0003520- |     |   |    | according to Article 2 clause 1 No |
| Pigment Orange 13 | 72-7     |     |   |    | 9, provided that no transfer of    |

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|                   |          |     |   |    | nanoparticles to food occurs.      |
|-------------------|----------|-----|---|----|------------------------------------|
|                   |          | 487 | х | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0003905- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 166   | 19-9     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 488 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0004424- |     |   |    | 9, provided that no transfer of    |
| Pigment Orange 43 | 06-0     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 489 | x | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0004531- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 17 | 49-1     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 490 | x | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0004948- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 149   | 15-6     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 491 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0005102- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 13 | 83-0     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 492 | x | NN | May also be used as nanomaterial   |
|                   | 0005280- |     |   |    | according to Article 2 clause 1 No |
| Pigment Red 146   | 68-2     |     |   |    | 9, provided that no transfer of    |

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|                    |          |     |   |    | nanoparticles to food occurs.      |
|--------------------|----------|-----|---|----|------------------------------------|
|                    |          | 493 | X | NN | May also be used as nanomaterial   |
|                    |          |     |   |    | according to Article 2 clause 1 No |
|                    | 0005280- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 144    | 78-4     |     |   |    | nanoparticles to food occurs.      |
|                    |          | 494 | x | NN | May also be used as nanomaterial   |
|                    |          |     |   |    | according to Article 2 clause 1 No |
|                    | 0005280- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 95  | 80-8     |     |   |    | nanoparticles to food occurs.      |
|                    |          | 496 | X | NN | May also be used as nanomaterial   |
|                    |          |     |   |    | according to Article 2 clause 1 No |
|                    | 0005468- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 14  | 75-7     |     |   |    | nanoparticles to food occurs.      |
|                    |          | 497 | X | NN | May also be used as nanomaterial   |
|                    |          |     |   |    | according to Article 2 clause 1 No |
|                    | 0005567- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 83  | 15-7     |     |   |    | nanoparticles to food occurs.      |
|                    |          | 498 | X | NN | May also be used as nanomaterial   |
|                    |          |     |   |    | according to Article 2 clause 1 No |
|                    | 0005580- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 93  | 57-4     |     |   |    | nanoparticles to food occurs.      |
|                    | 0005590- | 499 | x | NN | May also be used as nanomaterial   |
|                    | 18-1     |     |   |    | according to Article 2 clause 1 No |
| Pigment Yellow 110 | 0106276- |     |   |    | 9, provided that no transfer of    |

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|                   | 80-6     |     |   |    | nanoparticles to food occurs.       |
|-------------------|----------|-----|---|----|-------------------------------------|
|                   |          | 500 | х | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0005979- |     |   |    | 9, provided that no transfer of     |
| Pigment Yellow 16 | 28-2     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 501 | x | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0006041- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 2     | 94-7     |     |   |    | nanoparticles to food occurs.       |
|                   | 0006358- | 502 | x | NN | May also be used as nanomaterial    |
|                   | 30-1     |     |   |    | according to Article 2 clause 1 No  |
|                   | 0215247- |     |   |    | 9, provided that no transfer of     |
| Pigment Violet 23 | 95-3     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 503 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0006410- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 12    | 32-8     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 504 | x | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0006486- |     |   |    | 9, provided that no transfer of     |
| Pigment Yellow 3  | 23-3     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 505 | x | NN | May also be used as nanomaterial    |
|                   | 0006505- |     |   |    | according to Article 2 clause 1 No  |
| Pigment Orange 16 | 28-8     |     |   |    | 9, provided that no transfer of 🗸 🎸 |

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|                   |          |     |   |    | nanoparticles to food occurs.       |
|-------------------|----------|-----|---|----|-------------------------------------|
|                   |          | 506 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0006535- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 112   | 46-2     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 507 | x | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0007023- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 48:2  | 61-2     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 508 | x | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0007440- |     |   |    | 9, provided that no transfer of     |
| Pigment Metal 2   | 50-8     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 509 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0008007- |     |   |    | 9, provided that no transfer of     |
| Pigment Yellow 53 | 18-9     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 510 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0010101- |     |   |    | 9, provided that no transfer of     |
| Pigment White 25  | 41-4     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 511 | x | NN | May also be used as nanomaterial    |
|                   | 0012225- |     |   |    | according to Article 2 clause 1 No  |
| Pigment Violet 32 | 08-0     |     |   |    | 9, provided that no transfer of 🗸 🗸 |

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|                   |          |     |   |    | nanoparticles to food occurs.      |
|-------------------|----------|-----|---|----|------------------------------------|
|                   |          | 512 | x | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0012227- |     |   |    | 9, provided that no transfer of    |
| Pigment Black 11  | 89-3     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 513 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0012236- |     |   |    | 9, provided that no transfer of    |
| Pigment Orange 36 | 62-3     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 514 | x | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0012286- |     |   |    | 9, provided that no transfer of    |
| Pigment Yellow 62 | 66-7     |     |   |    | nanoparticles to food occurs.      |
|                   | 0014038- | 515 | x | NN | May also be used as nanomaterial   |
|                   | 43-8     |     |   |    | according to Article 2 clause 1 No |
|                   | 0012240- |     |   |    | 9, provided that no transfer of    |
| Pigment Blue 27   | 15-2     |     |   |    | nanoparticles to food occurs.      |
|                   |          | 516 | X | NN | May also be used as nanomaterial   |
|                   |          |     |   |    | according to Article 2 clause 1 No |
|                   | 0015782- |     |   |    | 9, provided that no transfer of    |
| Pigment Red 48:3  | 05-5     |     |   |    | nanoparticles to food occurs.      |
|                   | 0016043- | 517 | X | NN | May also be used as nanomaterial   |
|                   | 40-6     |     |   |    | according to Article 2 clause 1 No |
| Pigment Red 122   | 0000980- |     |   |    | 9, provided that no transfer of    |

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|                    | 26-7     |     |   |    | nanoparticles to food occurs.       |
|--------------------|----------|-----|---|----|-------------------------------------|
|                    |          | 518 | х | NN | May also be used as nanomaterial    |
|                    |          |     |   |    | according to Article 2 clause 1 No  |
|                    | 0017741- |     |   |    | 9, provided that no transfer of     |
| Pigment Violet 37  | 63-8     |     |   |    | nanoparticles to food occurs.       |
|                    |          | 519 | X | NN | May also be used as nanomaterial    |
|                    |          |     |   |    | according to Article 2 clause 1 No  |
|                    | 0017852- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 52:1   | 99-2     |     |   |    | nanoparticles to food occurs.       |
|                    |          | 520 | X | NN | May also be used as nanomaterial    |
|                    |          |     |   |    | according to Article 2 clause 1 No  |
|                    | 0030125- |     |   |    | 9, provided that no transfer of     |
| Pigment Yellow 138 | 47-4     |     |   |    | nanoparticles to food occurs.       |
|                    |          | 521 | X | NN | May also be used as nanomaterial    |
|                    |          |     |   |    | according to Article 2 clause 1 No  |
|                    | 0031778- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 208    | 10-6     |     |   |    | nanoparticles to food occurs.       |
|                    |          | 522 | X | NN | May also be used as nanomaterial    |
|                    |          |     |   |    | according to Article 2 clause 1 No  |
|                    | 0035869- |     |   |    | 9, provided that no transfer of     |
| Pigment Brown 23   | 64-8     |     |   |    | nanoparticles to food occurs.       |
|                    |          | 523 | X | NN | May also be used as nanomaterial    |
|                    | 0036888- |     |   |    | according to Article 2 clause 1 No  |
| Pigment Yellow 139 | 99-0     |     |   |    | 9, provided that no transfer of 🗸 🗸 |

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|                   |          |     |   |    | nanoparticles to food occurs.       |
|-------------------|----------|-----|---|----|-------------------------------------|
|                   |          | 524 | х | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0040618- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 214   | 31-3     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 525 | х | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0040716- |     |   |    | 9, provided that no transfer of     |
| Pigment Orange 61 | 47-0     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 526 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0051274- |     |   |    | 9, provided that no transfer of     |
| Pigment Yellow 42 | 00-1     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 527 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0052238- |     |   |    | 9, provided that no transfer of     |
| Pigment Red 242   | 92-3     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 528 | X | NN | May also be used as nanomaterial    |
|                   |          |     |   |    | according to Article 2 clause 1 No  |
|                   | 0057455- |     |   |    | 9, provided that no transfer of     |
| Pigment Blue 29   | 37-5     |     |   |    | nanoparticles to food occurs.       |
|                   |          | 529 | X | NN | May also be used as nanomaterial    |
|                   | 0068259- |     |   |    | according to Article 2 clause 1 No  |
| Pigment Red 220   | 05-2     |     |   |    | 9, provided that no transfer of 🗸 🗸 |

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|                    |          |     |   |    | nanoparticles to food occurs.         |
|--------------------|----------|-----|---|----|---------------------------------------|
|                    |          | 530 | X | NN | May also be used as nanomaterial      |
|                    |          |     |   |    | according to Article 2 clause 1 No    |
|                    | 0068516- |     |   |    | 9, provided that no transfer of       |
| Pigment Yellow 155 | 73-4     |     |   |    | nanoparticles to food occurs.         |
|                    |          | 531 | X | NN | May also be used as nanomaterial      |
|                    |          |     |   |    | according to Article 2 clause 1 No    |
|                    | 0072102- |     |   |    | 9, provided that no transfer of       |
| Pigment Orange 64  | 84-2     |     |   |    | nanoparticles to food occurs.         |
|                    |          | 532 | X | NN | May also be used as nanomaterial      |
|                    |          |     |   |    | according to Article 2 clause 1 No    |
|                    | 0077804- |     |   |    | 9, provided that no transfer of       |
| Pigment Yellow 180 | 81-0     |     |   |    | nanoparticles to food occurs.         |
|                    |          | 533 | X | NN | May also be used as nanomaterial      |
|                    |          |     |   |    | according to Article 2 clause 1 No    |
|                    | 0079953- |     |   |    | 9, provided that no transfer of       |
| Pigment Yellow 128 | 85-8     |     |   |    | nanoparticles to food occurs.         |
|                    |          | 534 | X | NN | May also be used as nanomaterial      |
|                    |          |     |   |    | according to Article 2 clause 1 No    |
|                    | 0084632- |     |   |    | 9, provided that no transfer of       |
| Pigment Orange 71  | 50-8     |     |   |    | nanoparticles to food occurs.         |
|                    |          | 535 | X | NN | May also be used as nanomaterial      |
|                    | 0088949- |     |   |    | according to Article 2 clause 1 No    |
| Pigment Red 264    | 33-1     |     |   |    | 9, provided that no transfer of 🗸 🗸 🗸 |

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o transfer of test con 12 to 12 to

|                                |          |       |     |   |   |   |      |      | nanoparticles to food occurs. |
|--------------------------------|----------|-------|-----|---|---|---|------|------|-------------------------------|
| 1,2,4-benzenetricarboxylic     | 0090218- |       | 606 |   |   | X | 0,05 |      | Only for use on the non food- |
| acid, mixed decyl and octyl    | 76-1     |       |     |   |   |   |      |      | contact side.                 |
| triesters                      |          |       |     |   |   |   |      |      |                               |
| diethyleneglycol butyl ether   | 0000112- |       | 607 | X | X |   |      | (35) | Only for use on the non food- |
|                                | 34-5     |       |     |   |   |   |      |      | contact side.                 |
| diethyleneglycol monoethyl     | 0000111- |       | 608 |   | X |   | 5    |      | Only for use on the non food- |
| ether                          | 90-0     |       |     |   |   |   |      |      | contact side.                 |
| trimethylolpropane, mixed      |          | 94987 | 609 |   | x |   | 5    |      | Only for use on the non food- |
| triesters and diesters with n- |          |       |     |   |   |   |      |      | contact side.                 |
| octanoic and n-decanoic        |          |       |     |   |   |   |      |      |                               |
| acids                          |          |       |     |   |   |   |      |      |                               |
| 1-ethoxy-2-propanol            | 0001569- |       | 610 |   | X |   |      | (37) | Only for use on the non food- |
|                                | 02-4     |       |     |   |   |   |      |      | contact side.                 |
| 1-ethoxy-2-propylacetat        | 0054839- |       | 611 |   | X |   |      | (37) | Only for use on the non food- |
|                                | 24-6     |       |     |   |   |   |      |      | contact side.                 |
| diethylene glycol butyl ether  | 0000124- |       | 613 |   | X |   |      | (35) | Only for use on the non food- |
| acetate                        | 17-4     |       |     |   |   |   |      |      | contact side.                 |
| 1,3-benzenedimethanamine       | 0001477- | 13000 | 614 | X |   |   |      | (39) |                               |
|                                | 55-0     |       |     |   |   |   |      |      |                               |
| adipic acid, dibutyl ester     | 0000105- | 32240 | 615 |   |   | X | 0,05 |      |                               |
|                                | 99-7     |       |     |   |   |   |      |      |                               |
| tris(2-ethylhexyl)             | 0000144- | 95440 | 616 |   |   | Х | 0,05 |      |                               |
| acetylcitrate                  | 15-0     |       |     |   |   |   |      |      | .<0                           |

| citric acid, diethyl ester | 0032074- |       | 617 |  |   | X | 0,05 |                                 |
|----------------------------|----------|-------|-----|--|---|---|------|---------------------------------|
|                            | 56-9     |       |     |  |   |   |      |                                 |
| aluminium hydroxy chloride | 0001327- | 34660 | 618 |  |   | x | 0,4  |                                 |
|                            | 41-9     |       |     |  |   |   |      |                                 |
| 1-propoxy-2-propanol       | 0001569- |       | 619 |  | X |   | 5    | Content of 2-propoxy-1-propanol |
|                            | 01-3     |       |     |  |   |   |      | (CAS-No.: 10215-30-2) not more  |
|                            |          |       |     |  |   |   |      | than 5%.                        |
|                            |          |       |     |  |   |   |      | Only for use on the non food-   |
|                            |          |       |     |  |   |   |      | contact side.                   |

Table 2 List of pigments permitted to be used additionally to table 1 for printing of food contact materials and articles described in Article 4 (7) clause 4

(related to Article 4 (9), Article 8 (5) clause 1)

| 1                    | 2            | 3    | 4       |   | 5            |     |    | 6   | 7       | 8                                       |   |
|----------------------|--------------|------|---------|---|--------------|-----|----|-----|---------|---|---|
| Substance name       | CAS-No       | REF- | Substan |   | intended use |     |    | SML | Group   | Restrictions, specifications and purity |   |
|                      |              | No   | ce-No   | I | II           | III | IV | V   | [mg/kg] | restrictio                              | requirements                              |
|                      |              |      |         |   |              |     |    |     |         | n No                                    |   |
| Calcium-Aluminium-   |              |      | 538     |   | x            |     |    |     | NN      |   | May also be used as nanomaterial accord-  |
| Borosilicate         |              |      |         |   |              |     |    |     |         |   | ing to Article 2 clause 1 No 9, provided  |
|                      |              |      |         |   |              |     |    |     |         |   | that no transfer of nanoparticles to food |
|                      |              |      |         |   |              |     |    |     |         |   | occurs.                                   |
| Calcium-Sodium-      |              |      | 539     |   | x            |     |    |     | NN      |   | May also be used as nanomaterial accord-  |
| Borosilicate         |              |      |         |   |              |     |    |     |         |   | ing to Article 2 clause 1 No 9, provided  |
|                      |              |      |         |   |              |     |    |     |         |   | that no transfer of nanoparticles to food |
|                      |              |      |         |   |              |     |    |     |         |   | occurs.                                   |
| Iron oxide, (Fe3O4)  | 0001317-61-9 |      | 541     |   | X            |     |    |     | NN      |   | May also be used as nanomaterial accord-  |
|                      |              |      |         |   |              |     |    |     |         |   | ing to Article 2 clause 1 No 9, provided  |
|                      |              |      |         |   |              |     |    |     |         |   | that no transfer of nanoparticles to food |
|                      |              |      |         |   |              |     |    |     |         |   | occurs                                    |
| Iron hydroxide oxide | 0020344-49-4 |      | 542     |   | x            |     |    |     | NN      |   | May also be used as nanomaterial accord-  |
| (Fe(OH)O)            |              |      |         |   |              |     |    |     |         |   | ing to Article 2 clause 1 No 9, provided  |
|                      |              |      |         |   |              |     |    |     |         |   | that no transfer of nanoparticles to food |
|                      |              |      |         |   |              |     |    |     |         |   | occurs.                                   |

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| 0007440-66-6 | 546  | X   | NN   | May also be used as nanomaterial accord-  |  |
|--------------|--|---|--|---|--|
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   |  |
|              |  |   |  | occurs.   |  |
| 0083524-75-8 | 547  | X   | NN   | May also be used as nanomaterial accord-  |  |
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   |  |
|              |  |   |  | occurs.   |  |
| 0025869-00-5 | 548  | X   | NN   | May also be used as nanomaterial accord-  |  |
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   |  |
|              |  |   |  | occurs.   |  |
| 0014154-42-8 | 549  | X   | NN   | May also be used as nanomaterial accord-  |  |
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   |  |
|              |  |   |  | occurs.   |  |
| 0014302-13-7 | 550  | x   | NN   | May also be used as nanomaterial accord-  |  |
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   |  |
|              |  |   |  | occurs  |  |
| 0015793-73-4 | 551  | X   | NN   | May also be used as nanomaterial accord-  |  |
|              |  |   |  | ing to Article 2 clause 1 No 9, provided  |  |
|              |  |   |  | that no transfer of nanoparticles to food   | 3 6  |
|              |  |   |  | occurs.   | , co,  |
|              |  |   |  | CIRSCON TITLE TO BE OF OUT OF THE PROPERTY OF |  |
|              | 0083524-75-8<br>0025869-00-5<br>0014154-42-8<br>0014302-13-7 | 0083524-75-8     547       0025869-00-5     548       0014154-42-8     549       0014302-13-7     550 | 0083524-75-8 547 x  0025869-00-5 548 x  0014154-42-8 549 x  0014302-13-7 550 x | 0083524-75-8 547 x NN  0025869-00-5 548 x NN  0014154-42-8 549 x NN  0014302-13-7 550 x NN  | ing to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.  NN May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |

| Pigment Orange 38 | 0012236-64-5 | 552 | х | NN | May also be used as nanomaterial accord-  |
|-------------------|--------------|-----|---|----|---|
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Orange 46 | 0067801-01-8 | 553 | x | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Orange 72 | 0078245-94-0 | 554 | x | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Orange 73 | 0084632-59-7 | 555 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Red 48:4  | 0005280-66-0 | 556 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Red 63:1  | 0006417-83-0 | 557 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |

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|-----------------|--------------|-----|---|----|---|
| Pigment Red 147 | 0068227-78-1 | 558 | x | NN | May also be used as nanomaterial accord-  |
|                 |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs.                                   |
| Pigment Red 148 | 0094276-08-1 | 559 | x | NN | May also be used as nanomaterial accord-  |
|                 |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs.                                   |
| Pigment Red 176 | 0012225-06-8 | 560 | x | NN | May also be used as nanomaterial accord-  |
|                 |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs.                                   |
| Pigment Red 177 | 0004051-63-2 | 561 | x | NN | May also be used as nanomaterial accord-  |
|                 |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs.                                   |
| Pigment Red 184 | 0099402-80-9 | 562 | X | NN | May also be used as nanomaterial accord-  |
|                 |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs                                    |
| Pigment Red 185 | 0061951-98-2 | 563 | x | NN | May also be used as nanomaterial accord-  |
|                 | 0051920-12-8 |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                 |              |     |   |    | that no transfer of nanoparticles to food |
|                 |              |     |   |    | occurs.                                   |

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| Pigment Red 200 | 0032041-58-0 | 564 | X | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided   |
|-----------------|--------------|-----|---|----|---|
|                 |              |     |   |    | that no transfer of nanoparticles to food occurs.   |
| Pigment Red 200 | 0058067-05-3 | 565 | х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |
| Pigment Red 210 | 0061932-63-6 | 566 | х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |
| Pigment Red 238 | 0140114-63-2 | 567 | х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |
| Pigment Red 254 | 0084632-65-5 | 568 | х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |
| Pigment Red 254 | 0122390-98-1 | 569 | Х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |

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| Pigment Red 266    | 0036968-27-1 | 570 | X |  | NN | May also be used as nanomaterial accord-  |
|--------------------|--------------|-----|---|--|----|---|
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Red 268    | 0016403-84-2 | 571 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs                                    |
| Pigment Red 269    | 0067990-05-0 | 572 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Red 282    | 0938065-79-3 | 573 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Yellow 12  | 0006358-85-6 | 574 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Yellow 109 | 0005045-40-9 | 575 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |

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| Pigment Yellow 111     | 0015993-42-7 | 576 |   | NN   | May also be used as nanomaterial accord-  |
|------------------------|--------------|-----|---|------|---|
| riginent Tenow 111     | 0013993-42-7 | 370 | X | ININ |   |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs.                                   |
| Pigment Yellow 120     | 0029920-31-8 | 577 | x | NN   | May also be used as nanomaterial accord-  |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs.                                   |
| Pigment Yellow 126     | 0090268-23-8 | 578 | x | NN   | May also be used as nanomaterial accord-  |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs                                    |
| Pigment Yellow 127     | 0068610-86-6 | 579 | X | NN   | May also be used as nanomaterial accord-  |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs.                                   |
| Pigment Yellow 138     | 0056731-19-2 | 580 | х | NN   | May also be used as nanomaterial accord-  |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs.                                   |
| Pigment Yellow 151     | 0061036-28-0 | 582 | v | NN   | May also be used as nanomaterial accord-  |
| 1 igniciit 1 ciiow 131 | 0001030-26-0 | 362 | X | 1919 |   |
|                        |              |     |   |      | ing to Article 2 clause 1 No 9, provided  |
|                        |              |     |   |      | that no transfer of nanoparticles to food |
|                        |              |     |   |      | occurs.                                   |

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| Pigment Yellow 174 | 0078952-72-4 | 583 | X | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food                  |
|--------------------|--------------|-----|---|----|--|
| Pigment Yellow 175 | 0035636-63-6 | 584 | x | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food                  |
| Pigment Yellow 181 | 0074441-05-7 | 585 | x | NN | occurs.  May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs. |
| Pigment Yellow 185 | 0076199-85-4 | 586 | x | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.          |
| Pigment Yellow 188 | 0023792-68-9 | 587 | х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs           |
| Pigment Yellow 55  | 0006358-37-8 | 588 | Х | NN | May also be used as nanomaterial according to Article 2 clause 1 No 9, provided that no transfer of nanoparticles to food occurs.          |

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| 71 77 77          | 000 (0.50 5) | #CC |   |    |   |
|-------------------|--------------|-----|---|----|---|
| Pigment Yellow 74 | 0006358-31-2 | 589 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Yellow 97 | 0012225-18-2 | 590 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Tin oxide         | 0018282-10-5 | 593 | x | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Zirconium dioxide | 0001314-23-4 | 594 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Red 81:1  | 0080083-40-5 | 598 | х | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
| Pigment Red 81:2  | 0075627-12-2 | 599 | X | NN | May also be used as nanomaterial accord-  |
|                   |              |     |   |    | ing to Article 2 clause 1 No 9, provided  |
|                   |              |     |   |    | that no transfer of nanoparticles to food |
|                   |              |     |   |    | occurs.                                   |
|                   |              |     |   |    | occurs.                                   |

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| Pigment Red 169    | 0012237-63-7 | 600 | X |  | NN | May also be used as nanomaterial accord-  |
|--------------------|--------------|-----|---|--|----|---|
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Yellow 150 | 0068511-62-6 | 601 | X |  | NN | May also be used as nanomaterial accord-  |
|                    | 0025157-64-6 |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    | 0086249-83-4 |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Yellow 154 | 0068134-22-5 | 602 | x |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Violet 27  | 0012237-62-6 | 603 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Blue 1     | 0001325-87-7 | 604 | X |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |
| Pigment Blue 61    | 0001324-76-1 | 605 | x |  | NN | May also be used as nanomaterial accord-  |
|                    |              |     |   |  |    | ing to Article 2 clause 1 No 9, provided  |
|                    |              |     |   |  |    | that no transfer of nanoparticles to food |
|                    |              |     |   |  |    | occurs.                                   |

# **Table 3: Group restrictions**

(related to Article 8 (5) clause 1)

Table 3 contains the following information:

Column 1 (Goup restriction No): number of the group of substances for which a group restriction according to Table 1 column 7 has been established.

Column 2 (Substance No): Substance number according to Table 1 column 4

Column 3 (SML (T) [mg/kg]): specific migration limit for the sum of the namend substance(s) of the respective substance group in milligram substance per kilogram food. If "ND" is indicated, a detectable transfer of the substance onto foods shall not be permitted. A transfer of up to 0.01 milligrams per kilogram of food shall be deemed to be a non-detectable transfer.

Column 4 (Group restriction specification): indication of the substance whose molecular weight forms the basis for expression of the result.

| 1                        | 2            | 3       | 4                                      |
|--------------------------|--------------|---------|--|
| <b>Group restriction</b> | Substance-No | SML (T) | Group restriction specification        |
| No                       |              | [mg/kg] |  |
| 1                        | 89           | 30      | expressed as ethyleneglycol            |
|                          | 142          |         |  |
|                          | 146          |         |  |
| 2                        | 227          | 30      | expressed as maleic acid               |
|                          | 228          |         |  |
| 3                        | 246          | 3       | expressed as the sum of the substances |
|                          | 247          |         |  |
| 4                        | 214          | 1       | expressed as iodine                    |
|                          | 218          |         |  |
|                          | 225          |         |  |
|                          | 276          |         |  |
| 5                        | 36           | 1,2     | expressed as tertiary amine            |
|                          | 37           |         |  |
| 6                        | 92           | 6       | expressed as the sum of the substances |
|                          | 93           |         | - Lind                                 |
|                          | 94           |         |  |
|                          | 194          |         | expressed as the sum of the substances |

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|    | T   | 1     |  |
|----|-----|-------|--|
|    | 195 |       |  |
|    | 197 |       |  |
| 7  | 107 | 0,18  | expressed as tin                           |
|    | 108 |       |  |
|    | 264 |       |  |
|    | 265 |       |  |
|    | 342 |       |  |
| 8  | 111 | 0,006 | expressed as tin                           |
|    | 112 |       |  |
|    | 113 |       |  |
|    | 114 |       |  |
|    | 115 |       |  |
|    | 116 |       |  |
|    | 117 |       |  |
|    | 118 |       |  |
|    | 119 |       |  |
|    | 120 |       |  |
|    | 121 |       |  |
|    | 122 |       |  |
|    | 123 |       |  |
|    | 124 |       |  |
| 9  | 266 | 1,2   | expressed as tin                           |
|    | 267 |       |  |
|    | 268 |       |  |
| 10 | 192 | 30    | expressed as the sum of the substances     |
|    | 193 |       |  |
|    | 196 |       |  |
| 11 | 244 | 1,5   | expressed as the sum of the substances     |
|    | 245 |       |  |
| 12 | 85  | 5     | expressed as the sum of the substances     |
|    | 110 |       |  |
|    | 364 |       |  |
| 13 | 164 | 15    | expressed as formaldehyde                  |
|    | 188 |       |  |
| 14 | 19  | 6     | expressed as boron                         |
|    | 45  |       | Without prejudice to the provisions of Di- |
|    | 46  |       | rective 98/83/EC                           |
|    | 279 |       | rective 98/83/EC                           |
| 15 | 81  | NN    | expressed as isocyanate moiety             |

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|    | 101  |      |  |
|----|------|------|--|
|    | 125  |      |  |
|    | 126  |      |  |
|    | 187  |      |  |
|    | 206  |      |  |
|    | 255  |      |  |
|    | 271  |      |  |
|    | 284  |      |  |
|    | 367  |      |  |
|    | 368  |      |  |
|    | 369  |      |  |
|    | 370  |      |  |
|    | 380  |      |  |
|    | 381  |      |  |
|    | 460* |      |  |
|    | 476* |      |  |
| 16 | 96   | 0,05 | expressed as the sum of the substances |
|    | 97   |      |  |
| 17 | 273  | 10   | expressed as SO <sub>2</sub>           |
|    | 274  |      |  |
|    | 278  |      |  |
|    | 280  |      |  |
| 18 | 132  | 30   | expressed as the sum of the substances |
|    | 286  |      |  |
|    | 337  |      |  |
| 19 | 378  | 5    | expressed as trimellitic acid          |
|    | 379  |      |  |
| 20 | 3    | 6    | expressed as acrylic acid              |
|    | 25   |      |  |
|    | 58   |      |  |
|    | 59   |      |  |
|    | 60   |      |  |
|    | 143  |      |  |
|    | 148  |      |  |
|    | 155  |      |  |
|    | 203  |      |  |
|    | 211  |      | atin <sup>0</sup>                      |
|    | 240  |      | Testing Action                         |
|    | 285  |      | Correction                             |

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|    |      | T    |  |
|----|------|------|--|
|    | 307  |      |  |
|    | 308  |      |  |
|    | 334  |      |  |
| 21 | 26   | 6    | expressed as methacrylic acid                  |
|    | 62   |      |  |
|    | 63   |      |  |
|    | 150  |      |  |
|    | 157  |      |  |
|    | 205  |      |  |
|    | 233  |      |  |
|    | 234  |      |  |
|    | 249  |      |  |
|    | 293  |      |  |
|    | 338  |      |  |
|    | 457* |      |  |
|    | 482* |      |  |
| 22 | 33   | 5    | expressed as the sum of the substances         |
|    | 43   |      |  |
| 23 | 86   | 0,05 | sum of mono-n-dodecyltin                       |
|    | 262  |      | tris(isooctylmercaptoacetate), di-n-dodecyltin |
|    |      |      | bis(isooctyl mercaptoacetate), mono-           |
|    |      |      | dodecyltin trichloride and di-dodecyltin di-   |
|    |      |      | chloride) expressed as the sum of mono- and    |
|    |      |      | di-dodecyltin chloride                         |
| 24 | 302  | 9    | expressed as the sum of the substances         |
|    | 303  |      |  |
| 25 | 208  | 5    | expressed as isophthalic acid                  |
|    | 209  |      |  |
| 26 | 66   | 0,05 | expressed as terephthalic acid                 |
|    | 313  |      |  |
| 27 | 51   | 5    | expressed as 1,4-butanediol                    |
|    | 313  |      |  |
| 28 | 6    | 30   | expressed as the sum of the substances         |
|    | 311  |      |  |
|    | 314  |      |  |
| 29 | 6    | 60   | expressed as the sum of the substances         |
|    | 34   |      | etino  |
|    | 35   |      | expressed as the sum of the substances         |
|    | 73   |      | Co, is to                                      |

|    | 78   |      |  |
|----|------|------|--|
|    | 141  |      |  |
|    | 170  |      |  |
|    | 259  |      |  |
|    | 299  |      |  |
|    | 300  |      |  |
|    | 301  |      |  |
|    | 302  |      |  |
|    | 303  |      |  |
|    | 311  |      |  |
|    | 312  |      |  |
|    | 314  |      |  |
|    | 354  |      |  |
|    | 371  |      |  |
|    | 373  |      |  |
|    | 810* |      |  |
|    | 815* |      |  |
| 30 | 185  | 0,05 | expressed as hexamethyldisiloxane        |
|    | 186  |      |  |
| 32 | 212  | 0,05 | expressed as the sum of the substances   |
|    | 213  |      |  |
| 33 | 362  | 0,05 | expressed as the sum of the substances   |
|    | 449  |      |  |
| 34 | 363  | 5    | expressed as the sum of the substances   |
|    | 450  |      |  |
| 35 | 147  | 5    | expressed as the sum of the substances   |
|    | 149  |      |  |
|    | 607  |      |  |
|    | 613  |      |  |
| 36 | 397  | 0,05 | expressed as silver                      |
|    | 426  |      |  |
| 37 | 610  | 5    | expressed as the sum of the substances   |
|    | 611  |      | content of 2-Ethoxy-1-propanol (CAS-No.: |
|    |      |      | 19089-47-5) and 2-Ethoxy-1-propylacetat  |
|    |      |      | (CAS-No.: 57350-24-0) not more than 3%,  |
|    |      |      | expressed as the sum of the substances . |
| 38 | 236  | 5    | expressed as the sum of the substances   |
|    | 237  |      | content of 2-Methoxy-1-propanol (CAS-    |
|    |      |      | No.: 1589-47-5) und 2-Methoxy            |
| •  |      |      |  |

|    |      |      | propylacetat (CAS-No.: 70657-70-4) not more than 0.3%, expressed as the sum of the substances. |
|----|------|------|--|
| 39 | 614  | 0,05 | expressed as 1,3-benzenedimethanamine  |
|    | 988* |      |  |

<sup>\*</sup> Substance No as in Annex I Table 1 Column 1 of Regulation (EU) No 10/2011

# **Table 4: Additional limit for specific substances**

(related to Article 8 (5) clause 2)

| Substance                      | Limit expressed in milligram per kilogram                |  |  |
|--------------------------------|--|--|--|
|                                | food   |  |  |
| Barium                         | 1  |  |  |
| Iron                           | 48   |  |  |
| Cobalt                         | 0,05   |  |  |
| Copper                         | 5  |  |  |
| Lithium                        | 0,6  |  |  |
| Manganese                      | 0,6  |  |  |
| Zinc                           | 25   |  |  |
| Primary aromatic amines,       | A transfer onto food shall not be detectable. A transfer |  |  |
| except those listed in table 1 | up to 0,01 milligrams of the sum of primary aromatic     |  |  |
|                                | amines per kilogram food shall be deemed to be a non-    |  |  |
|                                | detectable transfer. Additionally, for primary aromatic  |  |  |
|                                | amines listed in Annex 1 No 7 a detection limit of       |  |  |
|                                | 0,002 milligrams per kilogram food applies per single    |  |  |
|                                | substance.   |  |  |

CIRSUS X TESTING 121/23 on CIRSUS ALTESTING OF 121/23 on CIRSUS AL

# **Article 2**

| This Regulation | shall enter | into force | on the day | after its | announcement. |
|-----------------|-------------|------------|------------|-----------|---------------|
|                 |             |            |            |           |               |

The Bundesrat - Germany's Upper House of Parliament - has given its consent.

Bonn, (date) ... 2016

The Federal Minister of Food and Agriculture

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#### Statement of Reasons

#### A. General Provisions

#### Situation at the outset

Food contact materials and articles, for instance food packaging, are printed on for the purposes of information and advertising. The printing inks used contain chemical substances which, unless precautions are taken, can be transferred to food and thereby be absorbed by consumers.

According to information from EuPIA (the European Printing Inks Association) the quantity of substances used in printing inks amounts to almost 6 000. Only a small part of these substances (around 15 %) has been sufficiently assessed in toxicological terms, in such a way that content limits can be deduced for the transfer of substances onto foods, below which no health disadvantages are to be feared. For the remaining substances, there are either no toxicological data or no sufficient toxicological data available which would permit a health assessment and thus the deduction of safe limits for the transfer of substances onto foods.

Constituent parts of printing inks can get into foods through set-off processes, through migration or through the gas phase. In instances of set-off, the transfer of substances takes place through food contact materials and articles being handled on rolls or in piles, with the printed outside coming into contact with the inside; consequently parts of the printing inks are passed over onto foods. In the case of migration, printing ink chemicals stray from the printed food contact material and article and into the food. In the gas phase, constituent parts of high volatility and of medium volatility respectively, e.g. mineral oils, can get into foods by means of vaporisation and subsequent absorption. In some instances, items of packaging are also printed upon on the inside; this can also result in a contamination of foods.

In 2005, the public food control authorities proved the presence of the printing ink chemical ITX (isoprophylthioxanthon) in foods; ITX was hitherto unknown with regard to migration from printed food contact materials and articles, and was detected in fruit juices, milk products and yoghurt products and also in baby foods, among other products. Only limited toxicological data are available for ITX. The Federal Institute for Risk Assessment (BfR) was in fact able to rule out that the substance has any toxic effect on reproduction; however, the release level that the BfR was able to categorise as being acceptable in health terms was no higher

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than 50 micrograms per kilogram of food. In some instances, the content levels detected in the foods were significantly above this value, at up to 600 micrograms per kilogram.

The relevant business sector has given an assurance that it has converted its printing ink systems after the first findings in 2005 and that it no longer uses ITX since then. However, in checks by public authorities in 2009, 2010 and 2011, the presence of ITX was again detected in foods, even in quantities significantly above 50 micrograms per kilogram of food.

At the end of 2008, the *Laender* authorities competent for food control ascertained the presence of 4-methylbenzophenone, another constituent part of printing inks previously unknown with regard to its migration properties from printed food contact materials and articles; it was detected initially in breakfast cereals (muesli, cornflakes, etc.), then later in other foods, including foods frequently eaten by children. The highest level, measured in tacos, amounted to 50 milligrams per kilogram.

Taking as its basis a structurally-related compound, namely benzophenone, the European Food Safety Authority (EFSA) established that there is reason to presume that 4-methylbenzophenone is damaging to the kidneys and is carcinogenic in higher concentrations. Therefore the EFSA's view is that, in the case of long-term consumption of contaminated foods, health risks cannot be ruled out. A limit for the sum of benzophenone and 4-methylbenzophenone was set at 0.6 milligrams per kilogram of food, as recommended by the European Commission Standing Committee on the Food Chain and Animal Health, and taking into account the EFSA assessment; in 2009, many products exceeded this limit, as further studies conducted by the control authorities showed.

Likewise, in 2010 and 2011, public food control authorities ascertained benzophenone content-levels above the recommended limit, in vermicelli, biscuits, savoury snacks, couscous, wheat starch, rice paper and cinnamon powder, among other products. The highest content-level ascertained was 50.2 milligrams per kilogram of food.

In addition, in 2009, 2010 and 2011, the *Laender* food control institutions and also a project conducted as a decision-making aid on this topic, financially assisted by the Federal Ministry of Food and Agriculture, provided proof that a range of other printing ink chemicals were present in foods, in some cases in considerable amounts. In this context, please note the following overview:

| Constituent part of printing ink   | Food    | Content level       |              |
|------------------------------------|---------|---------------------|--------------|
|                                    |         |                     | ^ °          |
| 1-Chloro-4-propoxy-9H-thioxanthen- | Sausage | Up to 35            | in Vicou     |
| 9-one                              |         | μg/kg <sup>1)</sup> | 200, 4,0116. |

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| 1-Hydroxycyclohexyl phenyl ketone  | Breakfast cereals, wok noo-   | Up to 4300          |
|------------------------------------|-------------------------------|---------------------|
|                                    | dles, biscuits, milk-drink    | μg/kg               |
|                                    | powder, cinnamon powder,      |                     |
|                                    | rice paper, marshmallow con-  |                     |
|                                    | fectionery, marzipan confec-  |                     |
|                                    | tionery                       |                     |
| 1,6-Hexandiol diacrylate           | Chocolate bars                | Up to 37            |
|                                    |                               | $\mu g/kg^{2)}$     |
|                                    |                               |                     |
| 2,2-Dimethoxy-2-                   | Breakfast cereals, flour, wok | Up to 1455          |
| phenylacetophenone                 | noodles                       | μg/kg               |
|                                    |                               |                     |
| 2,4-Diethyl-9H-thioxanthen-9-one   | Snack products, fresh cheese  | Up to 130           |
|                                    |                               | μg/kg               |
| 2-Hydroxy-1-{4-[4-(2-hydroxy-2-    | Sausage                       | Up to 160           |
| methyl-propionyl)-benzyl]-phenyl}- |                               | μg/kg               |
| 2-methyl-propane-1-one             |                               |                     |
| 2-Hydroxy-2-methylpropiophenone    | Rice wafer snack, rice wafers | Up to 6100          |
|                                    |                               | μg/kg               |
| 2-Hydroxy-4-                       | Asian dried meat              | Up to 12 µg/kg      |
| (octyloxy)benzophenone             |                               |                     |
| 2-Methyl-4-(methylthio)-2-morpho-  | Snack products, fresh cheese  | Up to 1568          |
| linopropiophenone                  |                               | μg/kg               |
|                                    |                               |                     |
| 3-Methyl-1,5-pentan diy diacrylate | Chocolate bars                | Up to 37            |
|                                    |                               | μg/kg <sup>2)</sup> |
| 4,4'-Bis(diethylamino)-            | Baked goods with long prod-   | Up to 14 μg/kg      |
| benzophenone                       | uct-life (e.g. biscuits)      |                     |
| 4-Benzoylbiphenyl                  | Snack products, yoghurt prod- | Up to 630           |
|                                    | ucts, chocolate bars          | μg/kg               |
|                                    |                               |                     |
| Cyclohexanone                      | Chocolate eggs                | Up to 800           |
|                                    |                               | μg/kg res           |
|                                    |                               | Correct to          |

| Di-(ethylhexyl) sebacate           | Whey bars, snack products,    | Up to 1340     |
|------------------------------------|-------------------------------|----------------|
|                                    | biscuits, puffed rice         | μg/kg          |
| Diphenyl-(2,4,6-trimethylbenzoyl)- | Rice wafer snack              | Up to 40 µg/kg |
| phosphine oxide                    |                               |                |
| Ethyl(2,4,6-trimethylbenzoyl)-     | Snack products                | Up to 64 µg/kg |
| phenylphosphinate                  |                               |                |
| Ethyl-4-dimethylaminobenzoate      | Fresh cheese, chocolate bars  | Up to 116      |
|                                    |                               | µg/kg          |
| Mesitylene-2-carbaldehyde          | Chocolate bars                | Up to 45 μg/kg |
|                                    |                               |                |
| Methyl-2-benzoylbenzoate           | Breakfast cereals, poppadoms, | Up to 10795    |
|                                    | marshmallow confectionery     | μg/kg          |
| Phosphoric acid diphenyl 2-        | Snacks, ready-made meals,     | Up to 7000     |
| ethylhexyl ester                   | drink-powders                 | μg/kg          |
| α-Benzyl-α-(dimethylamino)-4-      | Fresh cheese, dairy products, | Up to 55 μg/kg |
| morpholinobutyrophenone            | sausage, snack products       |                |

<sup>&</sup>lt;sup>1)</sup>µg/kg = micrograms per kilogram

It transpires that for these substances there are no toxicological data available or no data of this type sufficient for a risk assessment. The BfR has given notification that corresponding constituent parts of printing inks must not be transferred into foods, because a health risk cannot be ruled out.

Furthermore, in April 2010, in the context of a further project financially supported by the Federal Ministry of Food and Agriculture and intended to provide decision-making assistance, mineral-oil hydrocarbons were ascertained as being present in foods packaged using printed folding box boards. Within this, the content-levels of saturated hydrocarbons found to be present were frequently far above a value that, according to the BfR's information, can still be categorised as being acceptable in health terms (in individual instances up to one hundred times that value). Hydrocarbons of this kind can be stored in the body and can damage the liver and the lymph glands, as reported by the BfR. Furthermore, the foods additionally examined to check for aromatic hydrocarbons were found to have them in relevant quantities. In the BfR's view, one should avoid consuming such foods because it cannot be ruled out that they include substances that, even in the smallest quantities, can give rise to health damage, such as cancer.

<sup>&</sup>lt;sup>2)</sup> Sum of 1,6-hexandioldiacrylate and 3-methyl-1,5-pentanediyl diacrylate

A wide range of foods is affected by this, e.g. flour, semolina, rice, bread, noodles, cornflakes, muesli, oat flakes, dumplings, sugar, chocolate, cakes or baking mixes, thereby also including many staple foods and foods frequently eaten by children. The source of the mineral oil is the printing inks used in printing the folding box boards, in addition to recycled paper fibres used as a raw material in the manufacture of recycled cartons or cardboard boxes.

Finally, in 2011 the BfR ascertained instances of transfer of primary aromatic amines (PAA) onto various foods, when examining napkins. This also included compounds categorised as being carcinogenic and mutagenic. The primary aromatic amines originate from the printed matter on the napkins. In some instances, the content-levels in the foods were found to be significantly above the limits sets for amines. The BfR's view is that, because of the presence of substances with carcinogenic and mutagenic characteristics, it shall be ensured that there is no detectable transfer of PAA from food contact materials and articles onto foods.

The ascertained instances of food contamination by constituent parts of printing inks show that Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food (the GMP Regulation), issued by the European Commission as a reaction to the ITX case in 2005, did not produce the desired effect. At all levels of the value chain (the manufacture of starting substances constitutes an exception), the GMP Regulation requires companies to establish quality-assurance systems and to implement quality checks which ensure conformity with Article 3(1) of Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food and repealing Directive 80/590/EEC and Directive 89/109/EEC. The Regulation also includes requirements with regard to documentation and stipulates specific technical rules for good manufacturing practice with regard to printing inks. By means of this Regulation, following the ITX case, the Commission sought to address the matter of transfer of substances from printing inks, without issuing substance-specific rules such as setting obligatory maximum limits. However, despite the GMP Regulation, the presence of constituent parts of printing inks continues to be ascertained in foods, at levels beyond limits that are acceptable in health-protection terms: as a result, damage to health cannot be ruled out. Substances also emerge in foods which cannot be assessed because toxicological data are either unavailable or those that are available are insufficient. The consequences of this for consumers' health are not currently foreseeable. Against this background, it is necessary to establish specific rules.

#### **Content of the Ordinance**

The present Ordinance stipulates a list of substances that shall be permitted to be used in list); this is done to protect consumers from possible health risk connected with the commerces ground the commerces of the c

of printed food contact materials and articles; the positive list includes permissible maximum limits for the transfer of substances onto foods. The substances included in the positive list shall solely be those for which a risk assessment is available or toxicological data sufficient and suitable for that purpose are available; this is so that their effects on health can be checked and, on that basis, safe limits can be deduced regarding the transfer of substances onto food.

In addition, the Ordinance stipulates that also substances are permitted to be used for which either no documents, or no documents sufficient for a health assessment, are available. However, this shall apply solely to those food contact materials and articles for which no direct contact between the food and the printing ink or its constituent parts is intended or foreseeable. It shall also be a prerequisite for the use of substances not assessed or not sufficiently assessed that these substances are not transferred from the printing inks onto the food, i.e. that their presence is not detectable in the foods.

So-called CMR substances, with the characteristics of being carcinogenic, mutagenic or toxic for reproduction, shall not be permitted to be used unless a safety assessment is available that renders it possible both to justify their use and to derive limits regarding transfer onto food, thus enabling the substance to be taken up into the positive list.

The Ordinance takes into account the ResAP Resolution (2005)2 of the Council of Europe, on printing inks for food packaging materials, subject to adaptation to the latest knowledge on science and technology.

As far as documentation of compliance with the provisions of this Ordinance and the general rules applicable to food contact materials and articels, especially Article 3 of Regulation (EC) No 1935/2004 relating to the safety of food contact materials and articles, is concerned, reference is made to Article 7 of Regulation (EC) No 2023/2006. According to this provision, amongst others, appropriate documentation is required relating to specifications, manufacturing formulae and processing which are relevant to compliance and safety of the finished material or article. For instance, this documentation could relate to the compliance with specific migration limits or the use of non-evaluated substances.

# Resource commitment to fulfil Ordinance; other costs

The Ordinance will not impose a cost burden on the Federal Government. It is estimated that the BfR will be able to conduct the safety assessment for new substances, regarding inclusion in the positive list, without additional commitment of personnel resources and in the confextor of the BfR's customary assessment work.

The *Laender* have reported the following implementation costs on the basis of the Ordinance, with Berlin, Brandenburg and Bremen not submitting information on the subject:

#### Bavaria:

One-off personnel costs and costs of materials: approx. €110 000 Annual personnel costs and costs of materials: approx. €66 000

### Baden-Württemberg:

Annual personnel costs and costs of materials: approx. €170 000

Baden-Württemberg attributes these costs to the provision both of analytical procedures, lending themselves to implementation on a routine basis, and also of suitable personnel with regard to analysis, and also to the checking of substances used and documentation available in the companies.

North German Cooperation (Hamburg, Schleswig-Holstein, Mecklenburg-West Pomerania):

One-off personnel costs and costs of materials: approx. €565 000 Annual personnel costs and costs of materials: approx. €130 000 €

Additionally, costs up to or over a million Euro were indicated regarding the rules on nanotechnology, for the acquisition of new measuring equipment or respectively the establishment of new facilities, among other cost factors (1/3 of these one-off personnel costs and costs of materials were taken into account in the above estimate: see below). However, rulings with regard to nanotechnology are not being introduced for the first time by this Ordnance, but rather they are already to be found in other rulings in the context of food contact materials and articles. In this regard, reference is also made to the specific details stated below.

#### Hesse:

One-off personnel costs and costs of materials: approx. €1 010 000

Annual personnel costs and costs of materials: approx. €310 000 or respectively, in the

event that analyses regarding nanomaterials

are commissioned, approx. €280 000

Hesse cites the acquisition of new analytical equipment (LC-MS/MS, GC-MS/MS, HPLC with FLD and DAD, equipment for processing of samples) as the reason for the additional costs. Additionally, extra expenditure (equipment for analysis and for preparation of samples) is indicated as being caused by the rulings on nanotechnology (see below).

#### Lower Saxony:

One-off personnel costs and costs of materials: approx. €490 000 Annual personnel costs and costs of materials: approx. €52 000

Lower Saxony's stated grounds for the additional costs of materials are the acquisition of a high-resolution LC-MS and also of standard substances.

### North-Rhine Westphalia:

One-off personnel costs and costs of materials: approx. €570 000 Annual personnel costs and costs of materials: approx. €236 000

North-Rhine Westphalia attributes these costs to the development of methods relating to the substances used, among other cost factors.

#### Rhineland Palatinate:

One-off personnel costs and costs of materials: approx. €200 000 Annual personnel costs and costs of materials: approx. €64 000

#### Saarland:

One-off personnel costs and costs of materials: approx. €1 000 000 Annual personnel costs and costs of materials: approx. €150 000

According to Saarland's information, the costs arise due to the acquisition of a new item of analytical equipment (LC-MS/MS), standard substances, and chemicals. Moreover, Saarland states that additional personnel are necessary for method development and method validation and also for the GMP checks.

# Saxony:

One-off personnel costs and costs of materials: approx. €600 000 Annual personnel costs and costs of materials: approx. €62 000

### Saxony-Anhalt:

One-off personnel costs and costs of materials: approx. €400 000 Annual personnel costs and costs of materials: approx. €230 000

Saxony-Anhalt's stated grounds for the additional costs are the acquisition of measurement equipment (HPLC, HPLC/GC/MS), the lasting commitment of time resources by one scientist and by two technical members of staff, and also the purchase of such relevant consumable of the purchase are required. Saxony-Anhalt continues to assert that the checks on transfer of constitution of measurement equipment (HPLC, HPLC/GC/MS), the lasting commitment of time resources by one scientist and by two technical members of staff, and also the purchase of such relevant consumable of the purchase of the pur

uent parts of printing inks, not yet implemented, would already be necessary in principle according to existing rules, independently of the passing of the planned ruling into law, yet even the checks currently required are not being implemented due to lack of capacity. Moreover, the general requirements of Regulation (EC) No 1935/2004 demanded a check on all transfers of substances.

### Thuringia:

One-off personnel costs and costs of materials: approx. €500 000 Annual personnel costs and costs of materials: approx. €40 000

Thuringia attributes the costs to the acquisition of analytical technology (LC-MS/MS) and to analysis-related materials costs, among other factors.

Total costs for the *Laender*:

One-off personnel costs and costs of materials: approx. €5 445 000 Annual personnel costs and costs of materials: approx. €1 510 000

Some *Laender* indicated costs arising specifically due to the introduction of rules governing nanomaterials. However, only 1/3 of these costs were entered into the calculation; the reason is that requirements already emerge with regard to nanomaterials, as well as corresponding personnel costs and costs of materials, because of the rules stated in the following: Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food, and also Regulation (EC) No 450/2009 on active and intelligent materials and articles intended to come into contact with food. Thus, the national rulings on printing inks cannot be designated as the sole cost factor both for the acquisition of corresponding equipment and also for the provision of suitable personnel.

The business community and, in particular, small to medium-sized businesses are faced with additional costs because of the Ordinance. The printing inks industry quantified these costs at approx. EUR 18 million for the 20 companies based in Germany: stated reasons are expenditure on testing, work needed to meet the preconditions for being listed, rearrangement of product formulations, and specification of the printing inks in accordance with the Ordinance. The information from the business community states the following factors (among others): costs of approx. EUR 100 000 per substance in order to meet the preconditions for being listed, EUR 100 000 Euro company for obtaining information relating to raw materials and for its assessment, and also very substantial costs for adjustments of product formulations (where applicable), because of substances not being listed. The need to convert a product formulation arises if a listing of the relevant substances is not applied for, or respectively if this application would be declined because of negative effects being ascertained for furnish

health, or there is a failure to comply with the relevant maximum values for the transfer of substances from printed food contact materials and articles.

According to the information from the printing inks industry, at this stage in the value chain the estimated costs of EUR 18 million are comprised as follows:

### Costs per company:

- 1. Communication with suppliers and assessment of suppliers' information
- Enquiries per raw material and per supplier: 1400
- Time expended per enquiry: one hour
- Total commitment: 1 400 hours, corresponding to full-time use of one worker: €100 000
- 2. Ongoing costs
- Customer care/communicating the compliance related work:

equivalent to the full-time use of one worker <u>€ 100 000</u>

- 3. Resource commitment involved in reformulation
- 1 400 basic substances per company; a basic substance substitution rate of 5% is assumed (70 basic substances)

Costs per basic substance substitution: 10 000 €

Total costs – basic substance substitution:

€ 700 000

Total expenditure – printing inks industry:

- Number of companies: 20
- Costs per company: € 900 000
- Total costs for the printing inks industry:

**€18 000 000** 

Likewise, a very substantial and lasting additional resource commitment was indicated for the downstream business operators.

The following exemplary scenario was presented: one single, small to medium-sized food company, packaging its own products and with 20 different packaging types in its product portfolio, faces costs of EUR 5 000 Euro to EUR 20 000 per packaging type in order to implement the Ordinance: these arise due to necessary chemical analyses, the additional compliance work, and the new qualification process (this depends on the composition of the printing inks, the technical changes, or the upstream work undertaken by suppliers). The ongoing costs (compliance work specific to the printing ink, and also chemical analyses) would amount to EUR 1 000 per packaging type annually. In total, what results for such a company, at this paper

ticular stage in the value chain, is implementation costs of EUR 100 000 to EUR 500 000 and ongoing costs of EUR 20 000 per year.

Taking into account approximately 20 000 different articles on offer for the end-consumer in the national market, the costs for the business community as a whole were estimated to be around EUR 660 million (one-time implementing costs). However, it was also stated that a sound estimation of the real costs is quite difficult to provide.

It is not possible at present to fully estimate the annual consequential costs incurred by the entire value-added chain that result from new developments and production switches. The economic operators concerned cannot provide relevant data either. The above-mentioned example has been randomly selected to illustrate possible scenarios. However, the types of packaging used vary in their number and type from business to business. Any need for structural adjustment in individual companies also needs to be considered on a case-by-case basis and the frequency and scope cannot be reliably predicted or estimated.

The printing inks industry presumes that the listing of new substances will cause around EUR 2 million in annual costs. It can be assumed that this also contains costs that generally arise in the use of new substances if only because of the general legislation governing food contact materials, notably in order to prove the safety of corresponding products. For the use of new substances in the production of food contact materials, thus also for printing, generally presupposes a check of the suitability and safety of the use in order to be able to comply with the general requirements laid down in Regulation (EC) No 1935/2004. With regard to the communication with suppliers and assessment (see no 1 above), the annual consequential costs per business are estimated at around 20% of the amount stated for a one-off switchover (EUR 20 000), with the running costs (no 2) remaining steady at EUR 100 000. With respect to the expenditure involved in reformulation (no 3), the printing inks industry assumes that the cost level will remain stable possibly in the first five years after the entry into force of the Regulation (EUR 700 000), because they expect a gradual conversion of the printing ink formulations used until the printing companies and users of printed food contact materials have sufficient knowledge of the possible applications of specific printing ink formulations in terms of their migration procedures. The additional current compliance costs incurred by the printing inks industry was thus estimated at a total of EUR 16 million annually in the first five years after the entry into force of the Regulation (including any business-as-usual costs). Costs are expected to decrease substantially afterwards, however.

It can generally be assumed that the total costs indicated by the industry contain a significant proportion of so-called business-as-usual costs that either cannot or not exclusively be attributed to the new regime. The existing general legislation for food contact materials already involves different obligations imposed on the manufacturers or distributors of these products.

Thus, producers or any other distributors have to ensure the safety of the food contact materials als, in particular. This also comprises suitable migration or other tests with a view to the transfer of substances from food contact materials to foodstuffs. This can also be done by the food of the

packers depending on the case concerned. In light of the rules laid down in this Regulation, notably due to the stipulation of defined specific migration limits derived from pertinent risk assessments, such tests, also on the basis of model calculations, should become much easier. Thus, the case-by-case evaluation which the industry would otherwise be required to conduct in order to determine to what extent specific levels of a substance that migrated to foods pose a danger to human health or not can be dispensed with in the future because one can now draw on uniform officially derived limits. However, at present, it cannot be quantify to what extent this will ease the cost burden on the industry on the basis of the available data. It is not to be ruled out that this additional burden placed on business has an effect on the development of end-consumer prices. However, in relation to specific products the scope of any price increases cannot be quantified exactly. Nevertheless, effects on the general price level and, in particular, the consumer price level are not to be expected.

For members of the public, no commitment of resources is required for the Ordinance to be fulfilled.

It is envisaged that the effects of this Regulation are to be evaluated no later than five years after the rules enter into force. In particular, this should also include the actual cost effects.

The 'one in, one out-rule' does not apply to the estimated one-time implementing costs resulting from this Ordinance. However, the additional current compliance costs expected by industry are covered by the aforementioned rule. Compensation of these costs cannot be realised within this Ordinance. Therefore, it will have to be evaluated whether or not possibilities for compensation can be identified in an other context than within this regulatory project.

### **Gender-specific effects**

The Ordinance includes no rulings that exert an effect specific to women's or men's respective life situations. Health protection is taken into account for women and for men in equal measure. Thus effects on equal opportunity for women and men are not to be expected.

#### Sustainable development

The Ordinance serves the protection of consumers against possible health dangers in their dealings with printed food contact materials and articles; it thereby contributes to sustainable development.

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#### **B.** Particular provisions

# **Relating to Article 1**

### Relating to Item 1

Item 1 includes the definitions necessary in order to apply this Ordinance.

Items deemed to be printing inks shall be the following: printing inks or printing varnishes which are applied to food contact materials and articles in a printing process or varnishing process and which come or can come into contact with the food, directly or indirectly. An indirect contact takes place, in particular, if printing inks, even without being used on the food-contact side of the food contact material and article, release or can release their constituent parts onto the food. In this context, reference is also made to the ruling in Article 4(7), from which it is likewise clear that these rules cover direct as well as indirect food contact. "Printing inks" and "printing varnishes" are fixed terms established in the supply chain. In accordance with this, these terms shall include printing inks and printing varnishes used, in particular, for inscription, for colouring, for imaging, or for attaining gloss effects, and also those used for adhesion or protection of the inks or varnishes.

Varnishes other than printing varnishes shall be outside the scope of the Ordinance, for instance those intended to exercise a protective function in relation to the food contact materials and article onto which they are applied (e.g. varnish for the interior of tins, as corrosion protection). In addition, decorative inks for ceramic food contact materials and articles, applied in a combustion process, shall not form part of this Ordinance's scope of application. The definition used for nanomaterials takes as its point of reference the Commission Recommendation (2011/696/EU) of 18 October 2011 on the definition of nanomaterials. In the event of any future amendment of the Recommendation, a check would be made on whether to adapt the definition used for this Regulation.

#### Relating to Item 2

Item 2 determines which monomers or other starting substances for polymers, colourants, solvents, photoinitiators or other additives in printing inks shall be permitted to be used in the manufacture of printed food contact materials and articles.

Here, as is otherwise customary, the term "to use" shall be understood as meaning "planned Item 2: "non-intentionally added substances" (NIAS), i.e. impurities in the substances used; of 12 to 100 droup. using". Consequently, the following shall not constitute substances that are used, as defined on

intermediate products from the reaction, which have formed in the manufacturing process; degradation products; reaction products.

To the extent that this Ordinance does not include any specific ruling for NIAS, the rules in Article 3(1) of Regulation (EC) No 1935/2004 shall apply. Whether the relevant NIAS correspond to Article 3(1)(a) of Regulation (EC) No 1935/2004 shall be checked in accordance with internationally recognised scientific principles of risk assessment.

Article 4(5) and (6) respectively of the Consumer Goods Ordinance make provision for authorisation of substances for which a risk assessment is available, or for which toxicological data suitable and sufficient for this are available; this is done so that such substances' effects on health can be checked by the BfR and, on this basis, limits can be deduced for the transfer onto foods, as can other restrictions, specifications and purity requirements (a positive list). If no purity requirements are stipulated, the substances shall be of good technical quality with regard to the purity requirements. This is the case if Article 3(1) of Regulation (EC) No 1935/2004 does not constitute an obstacle to the use.

A basis for the positive list is the ResAP (2005) 2 Resolution of the Council of Europe on printing inks for food packaging. Adaptations were made to the current level of knowledge of scientific and technology; in this context, among other things, the Ordinance by Switzerland's *Eidgenössische Departement des Innern* (EDI) of 7 March 2008 amending the EDI Ordinance of 23 November 2005 on utility articles (SR 817.023.21) was taken into account. By means of this Ordinance, Switzerland has issued specific rulings with regard to food contact materials and articles manufactured involving the use of printing inks. These rulings have been in force since 1 April 2010.

An amendment or an addition to the positive list can be applied for to the Federal Ministry of Food and Agriculture (BMEL). Together with the application, documents shall be submitted in accordance with the guideline published by the BfR, regarding the safety assessment for substances in printing inks used in the manufacture of food contact materials and articles. The BMEL shall decide regarding the amendment of or addition to the positive list, taking into account the opinion issued by the BfR. Furthermore, upon request and according to Articles 54 and 68 respectively of the Food and Feed Act (LFGB), general decrees can be issued or respectively exceptions to the rules stated in this Ordinance can be authorised.

Article 4(7) and (8) of the Consumer Goods Ordinance make provision for permitting the use of substances other than those stated in the positive list. In this context, on the one hand, reference is made to substances authorised according to Regulation (EU) No 10/2011 without group restrictions or without restrictions and specifications (so-called dynamic reference) (are Paragraph 8). On the other hand, substances are permitted for which no toxicological decarrons or no such documents sufficient for a health assessment are available; it is a prerequired.

site that the substances in question do not have carcinogenic, mutagenic or toxic-forreproduction characteristics as defined in Categories 1 and 2, Annex I, Regulation (EC) No 1272/2008 (so-called CMR substances) (cf. Paragraph 7). CMR substances shall be excluded from use because otherwise, without a safety assessment, as stated in Article 8(7) of the Consumer Goods Ordinance, they can be expected to be transferred onto food in quantities of up to 0.01 milligrams per kilogram. This could adversely affect consumers in ways associated with an unacceptable health risk. This rule adopts the approach hitherto taken in EU law with regard to the use of substances not assessed in health terms in the realm of food contact materials and articles (cf. Regulation (EC) No 450/2009 and Regulation (EU) No 10/2011). The possibility, provided for by Article 4(7) and (8), for use either of substances other than those stated in the positive list or of those encompassed by the reference to Regulation (EU) No 10/2011, shall apply solely to the manufacture of food contact materials and articles with regard to which the printing inks or what is printed on the articles are not intended to come into contact with the food directly; thus, for example, it relates to an item of food packaging with print on the outside. However, Article 4(7) Clause 4 additionally states that this ruling shall not apply to printed food contact materials and articles not intended to have direct food contact but with regard to which direct contact of the printing inks with the foods is foreseeable under normal conditions of use (cf. Article 1(2)(c) of Regulation (EC) No 1935/2004). For example, this can be the case with napkins or traymats. These may indeed not necessarily be intended to have food placed upon them, thereby causing direct contact. Yet without doubt it is foreseeable that napkins, for example, are also used for such purposes. Reference is made to Article 1(2)(c) of Regulation (EC) No 1935/2004.

Article 4(9) takes into account the fact that not enough of the relevant data are yet available for the assessment of some substances already used for printing on food contact materials and articles, such as napkins or traymats. On principle, for direct food contact, substances used in printing inks shall solely be those that have been health-assessed and are stated in the positive list in Annex 14 Table 1, or are authorised via the reference to Regulation (EU) No 10/2011. Provided that no transfer is provably taking place, and based on a detection limit of 0.01 milligrams per kilogram of food, substances not assessed in health terms shall be permitted solely on the printed part of the food contact material and article that is not intended to come into contact with the food directly, or with regard to which no direct contact is foreseeable. Napkins, traymats, etc. are food contact materials and articles with regard to which a direct contact with the food is foreseeable but the duration of contact is frequently short. Therefore, as an exception, for these cases the transitional period shall be prolonged by two years, thus amounting to four years in total. During this transitional period, the pigments stated in Annex 14 Table 2 shall be permitted to continue to be used. A transfer of these pigments onto foods shall not be detectable, i.e. a detection limit of 0.01 mg of pigment per kilogram of food ap plies. Within this period, the business sector affected should make sufficient toxicology.

related documents available for a health assessment, so that the substances are able to be taken up into the positive list (Annex 14 Table 1), preferably before the transition deadline.

Article 4(10) excludes from the ruling those printed food contact materials and articles with regard to which a transfer of substances from the printing ink onto the food is ruled out. Examples for such food contact materials and articles include glass bottles or metal cans on which the printed labels or similar material are printed on the side that is turned away from the food. Based on their nature and their mode of handling, it can be assumed with regard to such food contact materials and articles that no transfer can take place from the constituent parts of the printing inks onto the food.

#### Relating to Item 3

Item 3 determines which limits shall not be permitted to be exceeded with regard to the transfer of substances from printed food contact materials articles and printing inks onto foods.

Article 8(5) of the Consumer Goods Ordinance establishes limits for substances stated in Annex 14 of the Consumer Goods Ordinance. For these substances, risk assessments or toxicological data suitable and sufficient for such assessments are available; this in order that their effects on health can be checked by the BfR and that, on this basis, maximum tolerable intake levels can be deduced. A limited-duration ruling on an exception exists for food contact materials and articles referred to in Article 4(7) Clause 4, with regard to which it is foreseeable that the printing inks come into direct contact with foods, although they are not intended to do so, such as napkins and traymats (see in this regard Art. 4(9) and Annex 14 Table 2). For primary aromatic amines categorised as Category 1A and Category 2B carcinogens respectively according to Regulation (EC) No 1272/2008, the detection limit provided for by Annex 14 Table 4 with regard to transfer onto foods (namely 0.01 milligrams of the sum of primary aromatic amines per kilogram of the food), shall be deemed to be insufficient as defined in consumer-protection terms: this is based on a risk assessment with that conclusion, made by the BfR. For these substances, listed in Annex 1 Item 7 of the Consumer Goods Ordinance, a detection limit of 0.002 milligrams per kilogram of food shall additionally apply per individual substance.

Article 8(6) of the Consumer Goods Ordinance sets at 60 milligrams per kilogram respectively the limit for the transfer of substances from food contact materials and articles listed in Annex 14 Table 1, for which no specific migration limit, no group restriction or no other restrictions are established.

The rules in Article 8(5) and (6) of the Consumer Goods Ordinance shall apply respectively, subject to the rulings for printed plastic food contact materials and articles: for the latter, rules are already stated in Article 11(1) and (2) of Regulation (EU) No 10/2011.

Article 8(7) of the Consumer Goods Ordinance stipulates that it shall not be permitted for transfer of printing inks onto food to take place in detectable quantities from substances permitted to be used, but for which either no documents are available or no documents sufficient for a health assessment are available. For substances other than those in the form of nanomaterials, the detection limit shall be set at 0.01 milligrams per kilogram of food respectively. For analytical reasons, it is not currently possible to establish a uniform detection limit for substances in the form of nanomaterials. It shall be for the competent authority to decide in the particular cases what is deemed to be non-detectable.

Likewise, these stipulations follow an established approach used at EU level. Regulation (EC) No 450/2009 and Regulation (EU) No 10/2011 contain rules comparable to Article 8(7) of the Consumer Goods Ordinance.

### Relating to Item 4

Item 4 establishes rules for sanctioning of breaches of the rules in Article 4(5) of the Consumer Goods Ordinance.

It is not necessary to sanction a breach of Article 4(7) of the Consumer Goods Ordinance: this is because the use of CMR substances in a way that violates Article 4(7) would constitute a breach of Article 4(5).

The sanctioning of any breach of Article 8(5), (6) and (7) respectively of the Consumer Goods Ordinance is effected via Article 31(2) Clause 2 of the Food and Feed Act (LFGB).

#### Relating to Item 5

Item 5 includes the necessary rules for the transition.

Article 16(15) of the Consumer Goods Ordinance stipulates that printed food contact materials and articles that have been placed on the market in accordance with the rules that were in force until the Ordinance entered into force, shall also be permitted to be placed on the market after the Ordinance enters into force, until the stocks have been sold ("free right of sell-off").

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Article 16(16) of the Consumer Goods Ordinance includes the necessary rules for the transition, with regard to application of the new rulings of Articles 2, 4, 8 and 12. Provision is made for a transition period of twenty-four months.

Article 16(18) includes an extended transitional period for printed food contact materials and articles with regard to which a direct contact of the printing inks with the food is foreseeable even if this is not the intention; see also the reasoning on Item 2 (Article 4(9)). For printed food contact materials and articles that have been placed on the market in accordance with the rules that were in force until the expire date of this transitional period, a free right of sell-off is regulated in Article 16(17).

# Relating to Item 6

Reference is made to the reasoning given for Items 1, 2, 3 and 4.

# **Relating to Article 2**

Article 2 establishes the ruling for the entry of the Ordinance into force.

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