

## TEST REPORT

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**REPORT NUMBER:** TURT200175864\_REVISED01  
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**Attention :** Barbaros Kara (satinalma@iberambalaj.com)

### SAMPLE DESCRIPTION

- Sample 1:** One sample of Chrome Coated Ultraboard – 1  
**Sample 2:** One sample of White Testliner Coated Ultraboard – 2  
**Sample 3:** One sample of Kraftliner Coated Ultraboard – 3  
**Sample 4:** One sample of Testliner Coated Ultraboard – 4  
**Sample 5:** One sample of Grayboard Coated Ultraboard – 5

**DATE IN :** 30 December, 2020 (14:52)

**RESUBMIT DATE :** 07 January, 2021 / 27 January, 2021

**DATE OUT :** 13 January, 2021 / 27 January, 2021

**REQUEST :** SVHC Screening Test regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 25 July, 2020

In this revised 01 report, sample descriptions were changed by the request of the applicant.

**NOTE :** This report replaced the report no TURT200175864 dated on 13 January, 2021 and must be used instead of it.  
Report no TURT200175864 dated on 13 January, 2021 is invalid.

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Kübra AKGÜN  
Customer Care Executive



Zeynep AKIN  
Chemical Laboratory Manager

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

Sample 1



Sample 2



Sample 3



Sample 4



Sample 5



**Tested Components:**

CS=Combined Sample

| No | Combined Sample | Composite Sample of Number |
|----|-----------------|----------------------------|
| 1  | CS 1            | 1, 2, 3, 4, 5              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

## TEST RESULTS

### 1- Organic Components

#### 1. List (15 SVHC Released in Oct, 2008)

| No. | Chemical Substance                                                                                                           | CAS-No.                                                          | RESULTS (% w/w) |
|-----|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|
| 1   | Cobalt Dichloride                                                                                                            | 7646-79-9                                                        | ND              |
| 2   | Diarsenic Pentaoxide                                                                                                         | 1303-28-2                                                        | ND              |
| 3   | Diarsenic Trioxide                                                                                                           | 1327-53-3                                                        | ND              |
| 4   | Lead Hydrogen Arsenate                                                                                                       | 7784-40-9                                                        | ND              |
| 5   | Triethyl Arsenate                                                                                                            | 15606-95-8                                                       | ND              |
| 6   | Sodium Dichromate                                                                                                            | 7789-12-0, 10588-01-9                                            | ND              |
| 7   | Bis (Tributyltin) Oxide (TBTO)                                                                                               | 56-35-9                                                          | ND              |
| 8   | Anthracene                                                                                                                   | 120-12-7                                                         | ND              |
| 9   | 4,4'-Diaminodiphenylmethane (MDA)                                                                                            | 101-77-9                                                         | ND              |
| 10  | Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8) | ND              |
| 11  | 5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)                                                                           | 81-15-2                                                          | ND              |
| 12  | Bis (2-Ethylhexyl) Phthalate (DEHP)                                                                                          | 117-81-7                                                         | ND              |
| 13  | Dibutyl Phthalate (DBP)                                                                                                      | 84-74-2                                                          | ND              |
| 14  | Benzyl Butyl Phthalate (BBP)                                                                                                 | 85-68-7                                                          | ND              |
| 15  | Short Chain Chlorinated Paraffins (C10-13)                                                                                   | 85535-84-8                                                       | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

## 2. List (13 SVHC Release in Jan, 2010 and Mar, 2010)

| No. | Chemical Substance                                          | CAS-No.    | RESULTS (% w/w) |
|-----|-------------------------------------------------------------|------------|-----------------|
|     |                                                             |            | CS1             |
| 16  | Lead Chromate                                               | 7758-97-6  | ND              |
| 17  | Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) | 12656-85-8 | ND              |
| 18  | Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)          | 1344-37-2  | ND              |
| 19  | Tris (2-Chloroethyl) Phosphate                              | 115-96-8   | ND              |
| 20  | 2,4-Dinitrotoluene                                          | 121-14-2   | ND              |
| 21  | Diisobutyl Phthalate (DIBP)                                 | 84-69-5    | ND              |
| 22  | Coal Tar Pitch, High Temperature                            | 65996-93-2 | ND              |
| 23  | Anthracene Oil                                              | 90640-80-5 | ND              |
| 24  | Anthracene Oil, Anthracene Paste, Distn. Lights             | 91995-17-4 | ND              |
| 25  | Anthracene Oil, Anthracene Paste, Anthracene Fraction       | 91995-15-2 | ND              |
| 26  | Anthracene Oil, Anthracene-low                              | 90640-82-7 | ND              |
| 27  | Anthracene Oil, Anthracene Paste                            | 90640-81-6 | ND              |
| 28  | Acrylamide                                                  | 79-06-1    | ND              |

## 3. List (8 SVHC Release in Jun,2010)

| No. | Chemical Substance                      | CAS-No.                                | RESULTS (% w/w) |
|-----|-----------------------------------------|----------------------------------------|-----------------|
|     |                                         |                                        | CS1             |
| 29  | Boric Acid                              | 10043-35-3, 11113-50-1                 | ND              |
| 30  | Disodium Tetraborate, Anhydrous         | 1330-43-4,<br>12179-04-3,<br>1303-96-4 | ND              |
| 31  | Tetraboron Disodium Heptaoxide, Hydrate | 12267-73-1                             | ND              |
| 32  | Sodium Chromate                         | 7775-11-3                              | ND              |
| 33  | Potassium Chromate                      | 7789-00-6                              | ND              |
| 34  | Ammonium Dichromate                     | 7789-09-5                              | ND              |
| 35  | Potassium Dichromate                    | 7778-50-9                              | ND              |
| 36  | Trichloroethylene                       | 79-01-6                                | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

#### 4. List (8 SVHC Release in Dec,2010)

| No. | Chemical Substance                                                             | CAS-No.                       | RESULTS (% w/w) |
|-----|--------------------------------------------------------------------------------|-------------------------------|-----------------|
|     |                                                                                |                               | CS1             |
| 37  | 2-Methoxyethanol                                                               | 109-86-4                      | ND              |
| 38  | 2-Ethoxyethanol                                                                | 110-80-5                      | ND              |
| 39  | Cobalt Sulphate                                                                | 10124-43-3                    | ND              |
| 40  | Cobalt Dinitrate                                                               | 10141-05-6                    | ND              |
| 41  | Cobalt Carbonate                                                               | 513-79-1                      | ND              |
| 42  | Cobalt Diacetate                                                               | 71-48-7                       | ND              |
| 43  | Chromium Trioxide                                                              | 1333-82-0                     | ND              |
| 44  | Chromic Acid<br>Dichromic Acid<br>Oligomers of Chromic Acid and Dichromic Acid | 7738-94-5<br>13530-68-2<br>-- | ND              |

#### 5. List (7 SVHC Release in Jun, 2011)

| No. | Chemical Substance                                                              | CAS-No.               | RESULTS (% w/w) |
|-----|---------------------------------------------------------------------------------|-----------------------|-----------------|
|     |                                                                                 |                       | CS1             |
| 45  | Strontium Chromate                                                              | 7789-06-2             | ND              |
| 46  | 2-ethoxyethyl acetate (2-EEA)                                                   | 111-15-9              | ND              |
| 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4            | ND              |
| 48  | Hydrazine                                                                       | 7803-57-8<br>302-01-2 | ND              |
| 49  | 1-methyl-2-pyrrolidone                                                          | 872-50-4              | ND              |
| 50  | 1,2,3-trichloropropane                                                          | 96-18-4               | ND              |
| 51  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6            | ND              |

| Test Method                                   |                                                                         | Result                   | Requirements    |
|-----------------------------------------------|-------------------------------------------------------------------------|--------------------------|-----------------|
| <b>6. List (20 SVHC Release in Dec, 2011)</b> |                                                                         |                          |                 |
| No.                                           | Chemical Substance                                                      | CAS-No.                  | RESULTS (% w/w) |
|                                               |                                                                         |                          | <b>CS1</b>      |
| 52                                            | Lead dipicrate                                                          | 6477-64-1                | ND              |
| 53                                            | Lead styphnate                                                          | 15245-44-0               | ND              |
| 54                                            | Lead azide; Lead diazide                                                | 13424-46-9               | ND              |
| 55                                            | Phenolphthalein                                                         | 77-09-8                  | ND              |
| 56                                            | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                            | 101-14-4                 | ND              |
| 57                                            | N,N-dimethylacetamide (DMAC)                                            | 127-19-5                 | ND              |
| 58                                            | Trilead diarsenate                                                      | 3687-31-8                | ND              |
| 59                                            | Calcium arsenate                                                        | 7778-44-1                | ND              |
| 60                                            | Arsenic acid                                                            | 7778-39-4                | ND              |
| 61                                            | Bis(2-methoxyethyl) ether                                               | 111-96-6                 | ND              |
| 62                                            | 1,2-Dichloroethane                                                      | 107-06-2                 | ND              |
| 63                                            | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                | 140-66-9                 | ND              |
| 64                                            | 2-Methoxyaniline; o-Anisidine                                           | 90-04-0                  | ND              |
| 65                                            | Bis(2-methoxyethyl) phthalate (DMEP)                                    | 117-82-8                 | ND              |
| 66                                            | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4               | ND              |
| 67                                            | Pentazinc chromate octahydroxide                                        | 49663-84-5               | ND              |
| 68                                            | Potassium hydroxyoctaoxodizincate di-chromate                           | 11103-86-9               | ND              |
| 69                                            | Dichromium tris(chromate)                                               | 24613-89-6               | ND              |
| 70                                            | Aluminosilicate Refractory Ceramic Fibres                               | (Index No. 650-017-00-8) | ND              |
| 71                                            | Zirconia Aluminosilicate Refractory Ceramic Fibres                      | (Index No. 650-017-00-8) | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

#### 7. List (13 SVHC Release in Jun, 2012)

| No. | Chemical Substance                                                                                                                                                                                                                       | CAS-No.    | RESULTS (% w/w) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|
|     |                                                                                                                                                                                                                                          |            | CS1             |
| 72  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                                                                                                                        | 112-49-2   | ND              |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                              | 110-71-4   | ND              |
| 74  | Diboron trioxide                                                                                                                                                                                                                         | 1303-86-2  | ND              |
| 75  | Formamide                                                                                                                                                                                                                                | 75-12-7    | ND              |
| 76  | Lead(II) bis(methanesulfonate)                                                                                                                                                                                                           | 17570-76-2 | ND              |
| 77  | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)                                                                                                                                                                  | 2451-62-9  | ND              |
| 78  | $\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                                                                                                                                           | 59653-74-6 | ND              |
| 79  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                                                                                                                   | 90-94-8    | ND              |
| 80  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                                                           | 101-61-1   | ND              |
| 81  | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                  | 548-62-9   | ND              |
| 82  | [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 2580-56-5  | ND              |
| 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                | 6786-83-0  | ND              |
| 84  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                  | 561-41-1   | ND              |

| Test Method                                   |                                                                                                                                                                                                                                                                                       | Result                                                    | Requirements    |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|
| <b>8. List (54 SVHC Release in Dec, 2012)</b> |                                                                                                                                                                                                                                                                                       |                                                           |                 |
| No.                                           | Chemical Substance                                                                                                                                                                                                                                                                    | CAS-No.                                                   | RESULTS (% w/w) |
|                                               |                                                                                                                                                                                                                                                                                       |                                                           | <b>CS1</b>      |
| 85                                            | Bis(pentabromophenyl) ether<br>(decabromodiphenyl ether; DecaBDE)                                                                                                                                                                                                                     | 1163-19-5                                                 | ND              |
| 86                                            | Pentacosafuorotridecanoic acid                                                                                                                                                                                                                                                        | 72629-94-8                                                | ND              |
| 87                                            | Tricosafuorododecanoic acid                                                                                                                                                                                                                                                           | 307-55-1                                                  | ND              |
| 88                                            | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                          | 2058-94-8                                                 | ND              |
| 89                                            | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                      | 376-06-7                                                  | ND              |
| 90                                            | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                     | 123-77-3                                                  | ND              |
| 91                                            | Cyclohexane-1,2-dicarboxylic anhydride;<br>- cis-cyclohexane-1,2-dicarboxylic anhydride<br>- Cyclohexane-1,2-dicarboxylic anhydride<br>- trans-cyclohexane-1,2-dicarboxylic anhydride                                                                                                 | 13149-00-3<br>85-42-7<br>14166-21-3                       | ND              |
| 92                                            | Hexahydromethylphthalic anhydride;<br>- Hexahydro-4-methylphthalic anhydride<br>- Hexahydro-3-methylphthalic anhydride<br>- Hexahydro-1-methylphthalic anhydride<br>- Hexahydromethylphthalic anhydride                                                                               | -<br>19438-60-9<br>57110-29-9<br>48122-14-1<br>25550-51-0 | ND              |
| 93                                            | 4-Nonylphenol, branched and linear<br>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | -                                                         | ND              |
| 94                                            | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br>[covering well-defined substances and UVCB substances, polymers and homologues]                                                                                                                                                    | -                                                         | ND              |
| 95                                            | Methoxyacetic acid                                                                                                                                                                                                                                                                    | 625-45-6                                                  | ND              |
| 96                                            | N,N-dimethylformamide                                                                                                                                                                                                                                                                 | 68-12-2                                                   | ND              |
| 97                                            | Dibutyltin dichloride (DBTC)                                                                                                                                                                                                                                                          | 683-18-1                                                  | ND              |
| 98                                            | Lead monoxide (Lead oxide)                                                                                                                                                                                                                                                            | 1317-36-8                                                 | ND              |
| 99                                            | Orange lead (Lead tetroxide)                                                                                                                                                                                                                                                          | 1314-41-6                                                 | ND              |
| 100                                           | Lead bis(tetrafluoroborate)                                                                                                                                                                                                                                                           | 13814-96-5                                                | ND              |
| 101                                           | Trilead bis(carbonate)dihydroxide                                                                                                                                                                                                                                                     | 1319-46-6                                                 | ND              |
| 102                                           | Lead titanium trioxide                                                                                                                                                                                                                                                                | 12060-00-3                                                | ND              |
| 103                                           | Lead titanium zirconium oxide                                                                                                                                                                                                                                                         | 12626-81-2                                                | ND              |
| 104                                           | Silicic acid, lead salt                                                                                                                                                                                                                                                               | 11120-22-2                                                | ND              |



| Test Method |                                                                                                                                                                                                                                                                                                                                                             | Result      | Requirements    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| No.         | Chemical Substance                                                                                                                                                                                                                                                                                                                                          | CAS-No.     | RESULTS (% w/w) |
|             |                                                                                                                                                                                                                                                                                                                                                             |             | CS1             |
| 105         | Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | 68784-75-8  | ND              |
| 106         | 1-bromopropane (n-propyl bromide)                                                                                                                                                                                                                                                                                                                           | 106-94-5    | ND              |
| 107         | Methyloxirane (Propylene oxide)                                                                                                                                                                                                                                                                                                                             | 75-56-9     | ND              |
| 108         | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                                                                                                            | 84777-06-0  | ND              |
| 109         | Diisopentylphthalate (DIPP)                                                                                                                                                                                                                                                                                                                                 | 605-50-5    | ND              |
| 110         | N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                                                                                                 | 776297-69-9 | ND              |
| 111         | 1,2-diethoxyethane                                                                                                                                                                                                                                                                                                                                          | 629-14-1    | ND              |
| 112         | Acetic acid, lead salt, basic                                                                                                                                                                                                                                                                                                                               | 51404-69-4  | ND              |
| 113         | Lead oxide sulfate                                                                                                                                                                                                                                                                                                                                          | 12036-76-9  | ND              |
| 114         | [Phthalato(2-)]dioxotrilead                                                                                                                                                                                                                                                                                                                                 | 69011-06-9  | ND              |
| 115         | Dioxobis(stearato)trilead                                                                                                                                                                                                                                                                                                                                   | 12578-12-0  | ND              |
| 116         | Fatty acids, C16-18, lead salts                                                                                                                                                                                                                                                                                                                             | 91031-62-8  | ND              |
| 117         | Lead cyanamide                                                                                                                                                                                                                                                                                                                                              | 20837-86-9  | ND              |
| 118         | Lead dinitrate                                                                                                                                                                                                                                                                                                                                              | 10099-74-8  | ND              |
| 119         | Pentalead tetraoxide sulphate                                                                                                                                                                                                                                                                                                                               | 12065-90-6  | ND              |
| 120         | Pyrochlore, antimony lead yellow                                                                                                                                                                                                                                                                                                                            | 8012-00-8   | ND              |
| 121         | Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                                                                                                                          | 62229-08-7  | ND              |
| 122         | Tetraethyllead                                                                                                                                                                                                                                                                                                                                              | 78-00-2     | ND              |
| 123         | Tetralead trioxide sulphate                                                                                                                                                                                                                                                                                                                                 | 12202-17-4  | ND              |
| 124         | Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                                                 | 12141-20-7  | ND              |
| 125         | Furan                                                                                                                                                                                                                                                                                                                                                       | 110-00-9    | ND              |
| 126         | Diethyl sulphate                                                                                                                                                                                                                                                                                                                                            | 64-67-5     | ND              |
| 127         | Dimethyl sulphate                                                                                                                                                                                                                                                                                                                                           | 77-78-1     | ND              |
| 128         | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                                          | 143860-04-2 | ND              |
| 129         | Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                                                                                     | 88-85-7     | ND              |
| 130         | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                                                | 838-88-0    | ND              |
| 131         | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                                             | 101-80-4    | ND              |
| 132         | 4-aminoazobenzene                                                                                                                                                                                                                                                                                                                                           | 60-09-3     | ND              |

| Test Method |  | Result | Requirements |
|-------------|--|--------|--------------|
|-------------|--|--------|--------------|

  

|     | Chemical Substance                                | CAS-No.  | RESULTS (% w/w) |
|-----|---------------------------------------------------|----------|-----------------|
| No. |                                                   |          | CS1             |
| 133 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7  | ND              |
| 134 | 6-methoxy-m-toluidine (p-cresidine)               | 120-71-8 | ND              |
| 135 | Biphenyl-4-ylamine                                | 92-67-1  | ND              |
| 136 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]    | 97-56-3  | ND              |
| 137 | o-toluidine                                       | 95-53-4  | ND              |
| 138 | N-methylacetamide                                 | 79-16-3  | ND              |

## 9. List (6 SVHC Release in Jun, 2013)

|     | Chemical Substance                                                                                                                                                                                                                                                                                                                     | CAS-No.   | RESULTS (% w/w) |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| No. |                                                                                                                                                                                                                                                                                                                                        |           | CS1             |
| 139 | Cadmium                                                                                                                                                                                                                                                                                                                                | 7440-43-9 | ND              |
| 140 | Cadmium oxide                                                                                                                                                                                                                                                                                                                          | 1306-19-0 | ND              |
| 141 | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                               | 131-18-0  | ND              |
| 142 | 4-Nonylphenol, branched and linear, ethoxylated<br>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | -         | ND              |
| 143 | Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                                                                                               | 3825-26-1 | ND              |
| 144 | Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                    | 335-67-1  | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

#### 10. List (7 SVHC Release in Dec, 2013)

| No. | Chemical Substance                                                                                                                                   | CAS-No.    | RESULTS (% w/w) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|
|     |                                                                                                                                                      |            | CS1             |
| 145 | Cadmium sulphide                                                                                                                                     | 1306-23-6  | ND              |
| 146 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                           | 573-58-0   | ND              |
| 147 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7  | ND              |
| 148 | Dihexyl phthalate                                                                                                                                    | 84-75-3    | ND              |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                       | 96-45-7    | ND              |
| 150 | Lead di(acetate)                                                                                                                                     | 301-04-2   | ND              |
| 151 | Trixylyl phosphate                                                                                                                                   | 25155-23-1 | ND              |

#### 11. List (4 SVHC Release in Jun, 2014)

| No. | Chemical Substance                                               | CAS-No.    | RESULTS (% w/w) |
|-----|------------------------------------------------------------------|------------|-----------------|
|     |                                                                  |            | CS1             |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | ND              |
| 153 | Cadmium chloride                                                 | 10108-64-2 | ND              |
| 154 | Sodium perborate;<br>Perboric acid, sodium salt                  | --         | ND              |
| 155 | Sodium peroxometaborate                                          | 7632-04-4  | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**12. List (6 SVHC Release in December, 2014)**

| No. | Chemical Substance                                                                                                                                                                                                                                           | CAS-No.                | RESULTS (% w/w)<br>CS1 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                     | 25973-55-1             | ND                     |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         | 3846-71-7              | ND                     |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                       | 15571-58-1             | ND                     |
| 159 | Cadmium fluoride                                                                                                                                                                                                                                             | 7790-79-6              | ND                     |
| 160 | Cadmium sulphate                                                                                                                                                                                                                                             | 10124-36-4; 31119-53-6 | ND                     |
| 161 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | -                      | ND                     |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

### 13. List (2 SVHC Release in June, 2015)

| No. | Chemical Substance                                                                                                                                                                                                                                           | CAS-No.                | RESULTS (% w/w)<br>CS1 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|
| 162 | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl<br>and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC<br>No. 201-559-5)                                                               | 68515-51-5; 68648-93-1 | ND                     |
| 163 | 5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-<br>methyl-1,3-dioxane [1],<br><br>5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-<br>methyl-1,3-dioxane [2]<br><br>[covering any of the individual isomers of [1]<br>and [2] or any combination thereof] | -                      | ND                     |

### 14. List (5 SVHC Release in December, 2015)

| No. | Chemical Substance                                                                                                                                                                             | CAS-No.                                  | RESULTS (% w/w)<br>CS1 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|
| 164 | 1,3-Propanesultone                                                                                                                                                                             | 1120-71-4                                | ND                     |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)<br>phenol (UV-327)                                                                                                                             | 3864-99-1                                | ND                     |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-<br>butyl)phenol (UV-350)                                                                                                                       | 36437-37-3                               | ND                     |
| 167 | Nitrobenzene                                                                                                                                                                                   | 98-95-3                                  | ND                     |
| 168 | Perfluorononan-1-oic-acid and its sodium and<br>ammonium salts;<br>- Ammonium salts of perfluorononan-1-oic-acid<br>- Perfluorononan-1-oic-acid<br>- Sodium salts of perfluorononan-1-oic-acid | -<br>4149-60-4<br>375-95-1<br>21049-39-8 | ND                     |

### 15. List (1 SVHC Release in June, 2016)

| No. | Chemical Substance                  | CAS-No. | RESULTS (% w/w)<br>CS1 |
|-----|-------------------------------------|---------|------------------------|
| 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | ND                     |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

#### 16. List (4 SVHC Release in January, 2017)

| No. | Chemical Substance                                                                                                                                                                                                                                                                                   | CAS-No.                            | RESULTS (% w/w) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|
|     |                                                                                                                                                                                                                                                                                                      |                                    | CS1             |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A; BPA)                                                                                                                                                                                                                                                       | 80-05-7                            | ND              |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                                                                                 | 335-76-2<br>3830-45-3<br>3108-42-7 | ND              |
| 172 | p-(1,1-dimethylpropyl)phenol                                                                                                                                                                                                                                                                         | 80-46-6                            | ND              |
| 173 | 4-heptylphenol, branched and linear<br>[substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | -                                  | ND              |

#### 17. List (1 SVHC Release in July, 2017)

| No. | Chemical Substance                                    | CAS-No. | RESULTS (% w/w) |
|-----|-------------------------------------------------------|---------|-----------------|
|     |                                                       |         | CS1             |
| 174 | Perfluorohexane-1-sulfonic acid and its salts (PFHxS) | -       | ND              |

#### 18. List (7 SVHC Release in January, 2018)

| No. | Chemical Substance                                                                                                      | CAS-No.                | RESULTS (% w/w) |
|-----|-------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
|     |                                                                                                                         |                        | CS1             |
| 175 | Benz[a]anthracene                                                                                                       | 56-55-3,<br>1718-53-2  | ND              |
| 176 | Cadmium carbonate                                                                                                       | 513-78-0               | ND              |
| 177 | Cadmium hydroxide                                                                                                       | 21041-95-2             | ND              |
| 178 | Cadmium nitrate                                                                                                         | 10022-68-1, 10325-94-7 | ND              |
| 179 | Chrysene                                                                                                                | 218-01-9,<br>1719-03-5 | ND              |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octa deca-7,15-diene ("Dechlorane Plus"™) | -                      | ND              |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)   | -                      | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**19. List (10 SVHC Release in June, 2018)**

| No. | Chemical Substance                             | CAS-No.    | RESULTS (% w/w) |
|-----|------------------------------------------------|------------|-----------------|
| No. |                                                |            | CS1             |
| 182 | Terphenyl, hydrogenated                        | 61788-32-7 | ND              |
| 183 | Octamethylcyclotetrasiloxane                   | 556-67-2   | ND              |
| 184 | Lead                                           | 7439-92-1  | ND              |
| 185 | Ethylenediamine                                | 107-15-3   | ND              |
| 186 | Dodecamethylcyclohexasiloxane                  | 540-97-6   | ND              |
| 187 | Disodium octaborate                            | 12008-41-2 | ND              |
| 188 | Dicyclohexyl phthalate                         | 84-61-7    | ND              |
| 189 | Decamethylcyclopentasiloxane                   | 541-02-6   | ND              |
| 190 | Benzo[ghi]perylene                             | 191-24-2   | ND              |
| 191 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride | 552-30-7   | ND              |

**20. List (6 SVHC Release in January, 2019)**

| No. | Chemical Substance                                            | CAS-No.                | RESULTS (% w/w) |
|-----|---------------------------------------------------------------|------------------------|-----------------|
| No. |                                                               |                        | CS1             |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                     | 6807-17-6              | ND              |
| 193 | Benzo[k]fluoranthene                                          | 207-08-9               | ND              |
| 194 | Fluoranthene                                                  | 206-44-0<br>93951-69-0 | ND              |
| 195 | Phenanthrene                                                  | 85-01-8                | ND              |
| 196 | Pyrene                                                        | 129-00-0<br>1718-52-1  | ND              |
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one | 15087-24-8             | ND              |

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

#### 21. List (4 SVHC Release in July, 2019)

| No. | Chemical Substance                                                                                                                                                | CAS-No.  | RESULTS (% w/w) |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|
|     |                                                                                                                                                                   |          | CS1             |
| 198 | 2-methoxyethyl acetate                                                                                                                                            | 110-49-6 | ND              |
| 199 | Tris (4-nonylphenyl, branched and linear) phosphate (TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                                            | -        | ND              |
| 200 | 2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) propanoic acid and its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | -        | ND              |
| 201 | 4-tert-butylphenol                                                                                                                                                | 98-54-4  | ND              |

#### 22. List (4 SVHC Release in January, 2020)

| No. | Chemical Substance                                       | CAS-No.     | RESULTS (% w/w) |
|-----|----------------------------------------------------------|-------------|-----------------|
|     |                                                          |             | CS1             |
| 202 | Perfluorobutane sulfonic acid (PFBS) and its salts       | -           | ND              |
| 203 | Diisohexyl phthalate                                     | 71850-09-4  | ND              |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5  | ND              |
| 205 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone      | 119313-12-1 | ND              |

#### 23. List (4 SVHC Release in June, 2020)

| No. | Chemical Substance                      | CAS-No.    | RESULTS (% w/w) |
|-----|-----------------------------------------|------------|-----------------|
|     |                                         |            | CS1             |
| 206 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | ND              |
| 207 | butyl 4-hydroxybenzoate                 | 94-26-8    | ND              |
| 208 | 2-methylimidazole                       | 693-98-1   | ND              |
| 209 | 1-vinylimidazole                        | 1072-63-5  | ND              |



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

Reporting limit=0.1% (raw material)

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Note= Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

#### Notes:

- Substances of very high concern (SVHC) are classified as:
  - Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)
  - Persistent, bioaccumulative and toxic chemicals (PBT)
  - Very persistent and very bioaccumulative chemicals (vPvB)
  - Other similar substances such as endocrine disruptors
- If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:
  - Identification of the registrant and the substance
  - Classification and labelling of the substance
  - Description of use of the substance and the article
  - Registration number, if available
  - Tonnage range
- As per article 31 of regulation (EC) No. 1907/2006 (REACH), suppliers of mixtures not classified as dangerous according to directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the mixtures contain at least one substance on the SVHC candidate list and its individual concentration is 0.1%(w/w) or above for non-gaseous preparations.

#### REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

## END OF TEST REPORT ##