

**Report No.:** 1613048782-02

Page 1 of 9

**Client:** DAI A INDUSTRY JOINT STOCK COMPANY

Hamlet 2, Huong Ngai Commune, Thach That District, Ha Noi City,  
Vietnam

**Test item(s):** Plastic granules

**Identification/  
Model No(s):** WHITE MASTERBATCH; MODEL: IM-W950; MATERIAL: PLASTIC;  
COLOR: WHITE

**Sample Receiving date:** 2018-05-10

**Testing Period:** 2018-05-11 - 2018-05-17

**Test Specification:**

**Test result:**

Customer's requirement:

1. Risk Assessment of Articles: Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA), according to the EU Court of Justice rules on SVHCs in articles (Guidance on requirements for substances in articles, June 2017)

The tested material does not contain any SVHCs over 0.1% by weight

For and on behalf of  
TÜV Rheinland Vietnam Co., Ltd.

  


2018-05-17

Hoa Thi Xuan Dieu / Project Manager

*Date*

*Name/Position*

*Test result is drawn according to the kind and extent of tests performed.*

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

**Test Report No.: 1613048782-02**

Page 2 of 9

**Material List:**

Item: FILLER MASTERBATCH; MODEL: IF-PE80X; MATERIAL: PLASTIC; COLOR: WHITE

| Material No. | Material | Color       | Location                   |
|--------------|----------|-------------|----------------------------|
| M001         | Plastic  | Milky white | Plastic granules (IM-W950) |

1. Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA), according to the EU Court of Justice rules on SVHCs in articles.

**Test Results**

**Screening of SVHCs subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and SVHCs in candidate list by European Chemical Agency (ECHA), and the EU Court of Justice rules on SVHCs in articles**

Test Method: 1) Test portion is digested with acid and assisted with microwave, the elements are analysed by ICP-OES.  
 2) Test portion is extracted by organic solvent, semi-quantitative analysis by GC-MS / UV-Vis.  
 3) Test portion is extracted by organic solvent, the extraction solution is analyzed by Headspace-GC/MS / LC-DAD-MS / LC-MS/MS.

|               |      |
|---------------|------|
| Test No.:     | T001 |
| Material No.: | M001 |
| Result (%)    | n.d. |

**Abbreviation:** n.d. = Not Detected (< Reporting Limit)  
 RL = Reporting Limit  
 % = Percentage

**Remark:**

(\*1) The reporting limit for each individual SVHC subject to authorisation according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006):

|   | Substance                                                                                                                                                                | CAS No.                                                                      | Reporting Limit |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------|
| 1 | 4,4'- Diaminodiphenylmethane (MDA)                                                                                                                                       | 101-77-9                                                                     | 0.01%           |
| 2 | Benzyl butyl phthalate (BBP)                                                                                                                                             | 85-68-7                                                                      | 0.01%           |
| 3 | Bis (2-ethylhexyl)phthalate (DEHP)                                                                                                                                       | 117-81-7                                                                     | 0.01%           |
| 4 | Dibutyl phthalate (DBP)                                                                                                                                                  | 84-74-2                                                                      | 0.01%           |
| 5 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:<br>Alpha-hexabromocyclododecane<br>Beta-hexabromocyclododecane<br>Gamma-hexabromocyclododecane | 25637-99-4 /<br>3194-55-6 /<br>134237-50-6 /<br>134237-51-7 /<br>134237-52-8 | 0.01%           |
| 6 | 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)                                                                                                                       | 81-15-2                                                                      | 0.01%           |
| 7 | 2,4-Dinitrotoluene (2,4-DNT)                                                                                                                                             | 121-14-2                                                                     | 0.01%           |

**Test Report No.: 1613048782-02**

Page 3 of 9

|    |                                                                                                                                                                                                                                                                                       |                           |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|
| 8  | Diisobutyl phthalate (DIBP)                                                                                                                                                                                                                                                           | 84-69-5                   | 0.01% |
| 9  | Tris(2-chloroethyl)phosphate                                                                                                                                                                                                                                                          | 115-96-8                  | 0.01% |
| 10 | Diarsenic pentaoxide (*3)                                                                                                                                                                                                                                                             | 1303-28-2                 | 0.01% |
| 11 | Diarsenic trioxide (*3)                                                                                                                                                                                                                                                               | 1327-53-3                 | 0.01% |
| 12 | Lead chromate (*3)(*4)                                                                                                                                                                                                                                                                | 7758-97-6                 | 0.01% |
| 13 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*3)(*4)                                                                                                                                                                                                                  | 12656-85-8                | 0.01% |
| 14 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*3)                                                                                                                                                                                                                               | 1344-37-2                 | 0.01% |
| 15 | Trichloroethylene                                                                                                                                                                                                                                                                     | 79-01-6                   | 0.01% |
| 16 | Chromium trioxide (*4)                                                                                                                                                                                                                                                                | 1333-82-0                 | 0.01% |
| 17 | Acids generated from chromium trioxide and their oligomers:<br>Names of the acids and their oligomers: Chromic acid, Dichromic acid,<br>Oligomers of chromic acid and dichromic acid. (*4)                                                                                            | 7738-94-5 /<br>13530-68-2 | 0.01% |
| 18 | Sodium dichromate (*3)                                                                                                                                                                                                                                                                | 7789-12-0 / 10588-01-9    | 0.01% |
| 19 | Potassium dichromate (*4)                                                                                                                                                                                                                                                             | 7778-50-9                 | 0.01% |
| 20 | Ammonium dichromate (*4)                                                                                                                                                                                                                                                              | 7789-09-5                 | 0.01% |
| 21 | Potassium chromate (*4)                                                                                                                                                                                                                                                               | 7789-00-6                 | 0.01% |
| 22 | Sodium chromate (*4)                                                                                                                                                                                                                                                                  | 7775-11-3                 | 0.01% |
| 23 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*11)                                                                                                                                                                                                         | 25214-70-4                | 0.01% |
| 24 | 1,2-Dichloroethane                                                                                                                                                                                                                                                                    | 107-06-2                  | 0.01% |
| 25 | Bis(2-methoxyethyl) ether                                                                                                                                                                                                                                                             | 111-96-6                  | 0.01% |
| 26 | Arsenic acid (*3)                                                                                                                                                                                                                                                                     | 7778-39-4                 | 0.01% |
| 27 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                                                                                                                                                                                                                                          | 101-14-4                  | 0.01% |
| 28 | Dichromium tris(chromate) (*4)                                                                                                                                                                                                                                                        | 24613-89-6                | 0.01% |
| 29 | Strontium chromate (*4)                                                                                                                                                                                                                                                               | 7789-06-2                 | 0.01% |
| 30 | Potassium hydroxyoctaoxodizincatedichromate (*4)                                                                                                                                                                                                                                      | 11103-86-9                | 0.01% |
| 31 | Pentazinc chromate octahydroxide (*4)                                                                                                                                                                                                                                                 | 49663-84-5                | 0.01% |
| 32 | 1-bromopropane (n-propyl bromide)                                                                                                                                                                                                                                                     | 106-94-5                  | 0.01% |
| 33 | Diisopentylphthalate                                                                                                                                                                                                                                                                  | 605-50-5                  | 0.01% |
| 34 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)                                                                                                                                                                                                           | 71888-89-6                | 0.01% |
| 35 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)                                                                                                                                                                                                       | 68515-42-4                | 0.01% |
| 36 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                                      | 84777-06-0                | 0.01% |
| 37 | Bis(2-methoxyethyl) phthalate                                                                                                                                                                                                                                                         | 117-82-8                  | 0.01% |
| 38 | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                              | 131-18-0                  | 0.01% |
| 39 | N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                           | 776297-69-9               | 0.01% |
| 40 | Anthracene oil (*7)                                                                                                                                                                                                                                                                   | 90640-80-5                | 0.01% |
| 41 | Pitch, coal tar, high temperature (*7)                                                                                                                                                                                                                                                | 65996-93-2                | 0.01% |
| 42 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO)<br>[covering well-defined substances and UVCB substances, polymers and homologues]                                                                                                                                             | -                         | 0.01% |
| 43 | 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] | -                         | 0.01% |

**Test Report No.: 1613048782-02**

Page 4 of 9

(\*2) The reporting limit for each individual SVHC in Candidate List by ECHA:

|    | Substance                                                          | CAS No.                            | Reporting Limit |
|----|--------------------------------------------------------------------|------------------------------------|-----------------|
| 44 | Anthracene                                                         | 120-12-7                           | 0.01%           |
| 45 | Bis(tributyltin) oxide (TBTO) (*3) (*5)                            | 56-35-9                            | 0.01%           |
| 46 | Triethyl arsenate (*3)                                             | 15606-95-8                         | 0.01%           |
| 47 | Lead hydrogen arsenate (*3)                                        | 7784-40-9                          | 0.01%           |
| 48 | Cobalt dichloride (*3)                                             | 7646-79-9                          | 0.01%           |
| 49 | Acrylamide                                                         | 79-06-1                            | 0.01%           |
| 50 | Anthracene oil, anthracene paste, distn. lights (*7)               | 91995-17-4                         | 0.01%(*8)       |
| 51 | Anthracene oil, anthracene paste, anthracene fraction (*7)         | 91995-15-2                         |                 |
| 52 | Anthracene oil, anthracene-low (*7)                                | 90640-82-7                         |                 |
| 53 | Anthracene oil, anthracene paste (*7)                              | 90640-81-6                         |                 |
| 54 | Boric acid (*3) (*6)                                               | 10043-35-3 / 11113-50-1            | 0.01%           |
| 55 | Disodium tetraborate, anhydrous (*3) (*6)                          | 1303-96-4 / 1330-43-4 / 12179-04-3 | 0.01%           |
| 56 | Tetraboron disodium heptaoxide, hydrate (*3) (*6)                  | 12267-73-1                         | 0.01%           |
| 57 | 2-Methoxyethanol                                                   | 109-86-4                           | 0.01%           |
| 58 | 2-Ethoxyethanol                                                    | 110-80-5                           | 0.01%           |
| 59 | Cobalt(II) sulphate (*3)                                           | 10124-43-3                         | 0.01%           |
| 60 | Cobalt(II) dinitrate (*3)                                          | 10141-05-6                         | 0.01%           |
| 61 | Cobalt(II) carbonate (*3)                                          | 513-79-1                           | 0.01%           |
| 62 | Cobalt(II) diacetate (*3)                                          | 71-48-7                            | 0.01%           |
| 63 | Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP) | 85535-84-8                         | 0.01%           |
| 64 | 2-Ethoxyethyl acetate                                              | 111-15-9                           | 0.01%           |
| 65 | Hydrazine                                                          | 302-01-2 / 7803-57-8               | 0.01%           |
| 66 | 1-Methyl-2-pyrrolidone (NMP)                                       | 872-50-4                           | 0.01%           |
| 67 | 1,2,3-Trichloropropane                                             | 96-18-4                            | 0.01%           |
| 68 | Aluminosilicate Refractory Ceramic Fibres (RCF) (*9)               | -                                  | 0.01%           |
| 69 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*9)   | -                                  | 0.01%           |
| 70 | 2-Methoxyaniline,o-Anisidine                                       | 90-04-0                            | 0.01%           |
| 71 | 4-(1,1,3,3-tetramethylbutyl)phenol                                 | 140-66-9                           | 0.01%           |
| 72 | Calcium arsenate (*3)                                              | 7778-44-1                          | 0.01%           |
| 73 | Trilead diarsenate (*3)                                            | 3687-31-8                          | 0.01%           |
| 74 | N,N-dimethylacetamide (DMAC)                                       | 127-19-5                           | 0.01%           |
| 75 | Phenolphthalein                                                    | 77-09-8                            | 0.01%           |
| 76 | Lead dipicrate (*3)                                                | 6477-64-1                          | 0.01%           |
| 77 | Lead diazide, Lead azide (*3)                                      | 13424-46-9                         | 0.01%           |
| 78 | Lead styphnate (*3)                                                | 15245-44-0                         | 0.01%           |
| 79 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)                   | 112-49-2                           | 0.01%           |
| 80 | 1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)         | 110-71-4                           | 0.01%           |

## Test Report No.: 1613048782-02

Page 5 of 9

|     |                                                                                                                                                                                                                                                                                                                                                                      |                                                            |       |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|
| 81  | Diboron trioxide (*3) (*6)                                                                                                                                                                                                                                                                                                                                           | 1303-86-2                                                  | 0.01% |
| 82  | Formamide                                                                                                                                                                                                                                                                                                                                                            | 75-12-7                                                    | 0.01% |
| 83  | Lead(II) bis(methanesulfonate) (*3)                                                                                                                                                                                                                                                                                                                                  | 17570-76-2                                                 | 0.01% |
| 84  | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)                                                                                                                                                                                                                                                                                                   | 2451-62-9                                                  | 0.01% |
| 85  | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)                                                                                                                                                                                                                                                                              | 59653-74-6                                                 |       |
| 86  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK                                                                                                                                                                                                                                                                                                           | 90-94-8                                                    | 0.01% |
| 87  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK                                                                                                                                                                                                                                                                                                  | 101-61-1                                                   | 0.01% |
| 88  | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10)                                                                                                                            | 2580-56-5                                                  | 0.01% |
| 89  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10)                                                                                                                                            | 548-62-9                                                   |       |
| 90  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10)                                                                                                                                                                                                              | 561-41-1                                                   |       |
| 91  | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10)                                                                                                                                                                         | 6786-83-0                                                  |       |
| 92  | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)                                                                                                                                                                                                                                                                                                      | 1163-19-5                                                  | 0.01% |
| 93  | Pentacosafuorotridecanoic acid                                                                                                                                                                                                                                                                                                                                       | 72629-94-8                                                 | 0.01% |
| 94  | Tricosafuorododecanoic acid                                                                                                                                                                                                                                                                                                                                          | 307-55-1                                                   | 0.01% |
| 95  | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                                                                                                         | 2058-94-8                                                  | 0.01% |
| 96  | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                                                                                                     | 376-06-7                                                   | 0.01% |
| 97  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*12)                                                                                                                                                                                                                                                                                                       | 123-77-3                                                   | 0.05% |
| 98  | Cyclohexane-1,2-dicarboxylic anhydride [1],<br>cis-cyclohexane-1,2-dicarboxylic anhydride [2],<br>trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]                                                           | 85-42-7 /<br>13149-00-3 /<br>14166-21-3                    | 0.01% |
| 99  | Hexahydromethylphthalic anhydride (MHHPA) [1],<br>Hexahydro-4-methylphthalic anhydride [2],<br>Hexahydro-1-methylphthalic anhydride [3],<br>Hexahydro-3-methylphthalic anhydride [4]<br>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] | 25550-51-0 /<br>19438-60-9 /<br>48122-14-1 /<br>57110-29-9 | 0.01% |
| 100 | N,N-dimethylformamide                                                                                                                                                                                                                                                                                                                                                | 68-12-2                                                    | 0.01% |
| 101 | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                                                                                                   | 629-14-1                                                   | 0.01% |
| 102 | Diethyl sulphate                                                                                                                                                                                                                                                                                                                                                     | 64-67-5                                                    | 0.01% |
| 103 | Methoxyacetic acid (MAA)                                                                                                                                                                                                                                                                                                                                             | 625-45-6                                                   | 0.01% |
| 104 | Dimethyl sulphate                                                                                                                                                                                                                                                                                                                                                    | 77-78-1                                                    | 0.01% |
| 105 | N-methylacetamide                                                                                                                                                                                                                                                                                                                                                    | 79-16-3                                                    | 0.01% |
| 106 | Furan                                                                                                                                                                                                                                                                                                                                                                | 110-00-9                                                   | 0.01% |
| 107 | Methyloxirane (Propylene oxide)                                                                                                                                                                                                                                                                                                                                      | 75-56-9                                                    | 0.01% |
| 108 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                                                   | 143860-04-2                                                | 0.01% |
| 109 | Dibutyltin dichloride (DBTC) (*3)                                                                                                                                                                                                                                                                                                                                    | 683-18-1                                                   | 0.01% |
| 110 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                                                                                              | 88-85-7                                                    | 0.01% |
| 111 | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                                                         | 838-88-0                                                   | 0.01% |
| 112 | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                                                      | 101-80-4                                                   | 0.01% |

**Test Report No.: 1613048782-02**

Page 6 of 9

|     |                                                                                                                                                                                                                                                                                                                                                                                          |            |       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|
| 113 | 4-Aminoazobenzene                                                                                                                                                                                                                                                                                                                                                                        | 60-09-3    | 0.01% |
| 114 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                                                                                                                                                                                                                                                                                                                                        | 95-80-7    | 0.01% |
| 115 | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                                                                      | 120-71-8   | 0.01% |
| 116 | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                                                                       | 92-67-1    | 0.01% |
| 117 | o-aminoazotoluene                                                                                                                                                                                                                                                                                                                                                                        | 97-56-3    | 0.01% |
| 118 | o-Toluidine                                                                                                                                                                                                                                                                                                                                                                              | 95-53-4    | 0.01% |
| 119 | Acetic acid, lead salt, basic (*3)                                                                                                                                                                                                                                                                                                                                                       | 51404-69-4 | 0.01% |
| 120 | Trilead bis(carbonate) dihydroxide (*3)                                                                                                                                                                                                                                                                                                                                                  | 1319-46-6  | 0.01% |
| 121 | Lead oxide sulfate (*3)                                                                                                                                                                                                                                                                                                                                                                  | 12036-76-9 | 0.01% |
| 122 | [Phthalato(2-)]dioxotrilead (*3)                                                                                                                                                                                                                                                                                                                                                         | 69011-06-9 | 0.01% |
| 123 | Dioxobis(stearato)trilead (*3)                                                                                                                                                                                                                                                                                                                                                           | 12578-12-0 | 0.01% |
| 124 | Fatty acids, C16-18, lead salts (*3)                                                                                                                                                                                                                                                                                                                                                     | 91031-62-8 | 0.01% |
| 125 | Lead bis(tetrafluoroborate) (*3)                                                                                                                                                                                                                                                                                                                                                         | 13814-96-5 | 0.01% |
| 126 | Lead cyanamidate (*3)                                                                                                                                                                                                                                                                                                                                                                    | 20837-86-9 | 0.01% |
| 127 | Lead dinitrate (*3)                                                                                                                                                                                                                                                                                                                                                                      | 10099-74-8 | 0.01% |
| 128 | Lead monoxide (lead oxide) (*3)                                                                                                                                                                                                                                                                                                                                                          | 1317-36-8  | 0.01% |
| 129 | Orange lead (lead tetroxide) (*3)                                                                                                                                                                                                                                                                                                                                                        | 1314-41-6  | 0.01% |
| 130 | Lead titanium trioxide (*3)                                                                                                                                                                                                                                                                                                                                                              | 12060-00-3 | 0.01% |
| 131 | Lead titanium zirconium oxide (*3)                                                                                                                                                                                                                                                                                                                                                       | 12626-81-2 | 0.01% |
| 132 | Pyrochlore, antimony lead yellow (*3)                                                                                                                                                                                                                                                                                                                                                    | 8012-00-8  | 0.01% |
| 133 | Pentalead tetraoxide sulphate (*3)                                                                                                                                                                                                                                                                                                                                                       | 12065-90-6 | 0.01% |
| 134 | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped<br><i>[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] (*3)</i> | 68784-75-8 | 0.01% |
| 135 | Silicic acid, lead salt (*3)                                                                                                                                                                                                                                                                                                                                                             | 11120-22-2 | 0.01% |
| 136 | Sulfurous acid, lead salt, dibasic (*3)                                                                                                                                                                                                                                                                                                                                                  | 62229-08-7 | 0.01% |
| 137 | Tetraethyllead (*3)                                                                                                                                                                                                                                                                                                                                                                      | 78-00-2    | 0.01% |
| 138 | Tetralead trioxide sulphate (*3)                                                                                                                                                                                                                                                                                                                                                         | 12202-17-4 | 0.01% |
| 139 | Trilead dioxide phosphonate (*3)                                                                                                                                                                                                                                                                                                                                                         | 12141-20-7 | 0.01% |
| 140 | Ammonium pentadecafluorooctanoate (APFO) (*13)                                                                                                                                                                                                                                                                                                                                           | 3825-26-1  | 0.01% |
| 141 | Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                                                                      | 335-67-1   | 0.01% |
| 142 | Cadmium (*3)                                                                                                                                                                                                                                                                                                                                                                             | 7440-43-9  | 0.01% |
| 143 | Cadmium oxide (*3)                                                                                                                                                                                                                                                                                                                                                                       | 1306-19-0  | 0.01% |
| 144 | 4-Nonylphenol, branched and linear, ethoxylated (NPEO)<br><i>[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]</i>                                     | -          | 0.01% |
| 145 | Dihexyl phthalate                                                                                                                                                                                                                                                                                                                                                                        | 84-75-3    | 0.01% |
| 146 | Trixylyl phosphate                                                                                                                                                                                                                                                                                                                                                                       | 25155-23-1 | 0.01% |
| 147 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)                                                                                                                                                                                                                                                                                                                                          | 96-45-7    | 0.01% |
| 148 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-minonaphthalene-1-sulphonate)<br>(C.I. Direct Red 28)                                                                                                                                                                                                                                                                             | 573-58-0   | 0.01% |
| 149 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate<br>(C.I. Direct Black 38)                                                                                                                                                                                                                                  | 1937-37-7  | 0.01% |
| 150 | Lead di(acetate) (*3)                                                                                                                                                                                                                                                                                                                                                                    | 301-04-2   | 0.01% |
| 151 | Cadmium sulphide (*3)                                                                                                                                                                                                                                                                                                                                                                    | 1306-23-6  | 0.01% |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                                                                                                                                                                                                                                                         | 68515-50-4 | 0.01% |
| 153 | Cadmium chloride (*3)                                                                                                                                                                                                                                                                                                                                                                    | 10108-64-2 | 0.01% |

## Test Report No.: 1613048782-02

Page 7 of 9

|     |                                                                                                                                                                                                                                                                                                   |                                     |       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------|
| 154 | Sodium perborate,perboric acid, sodium salt (*3) (*6)                                                                                                                                                                                                                                             | -                                   | 0.01% |
| 155 | Sodium peroxometaborate (*3) (*6)                                                                                                                                                                                                                                                                 | 7632-04-4                           | 0.01% |
| 156 | Cadmium fluoride (*3)                                                                                                                                                                                                                                                                             | 7790-79-6                           | 0.01% |
| 157 | Cadmium sulphate (*3)                                                                                                                                                                                                                                                                             | 10124-36-4 / 31119-53-6             | 0.01% |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                                                              | 3846-71-7                           | 0.01% |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                                                          | 25973-55-1                          | 0.01% |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*14)                                                                                                                                                                                                      | 15571-58-1                          | 0.01% |
| 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) (*15)                                | -                                   | 0.01% |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)                                                                                                                   | 68515-51-5 / 68648-93-1             | 0.01% |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]                                                         | -                                   | 0.01% |
| 164 | 1,3-propanesultone                                                                                                                                                                                                                                                                                | 1120-71-4                           | 0.01% |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                                                                    | 3864-99-1                           | 0.01% |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                                                                              | 36437-37-3                          | 0.01% |
| 167 | Nitrobenzene                                                                                                                                                                                                                                                                                      | 98-95-3                             | 0.01% |
| 168 | Perfluoronon-1-ol-acid and its sodium and ammonium salts                                                                                                                                                                                                                                          | 375-95-1<br>21049-39-8<br>4149-60-4 | 0.01% |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                                                               | 50-32-8                             | 0.01% |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A)                                                                                                                                                                                                                                                         | 80-05-7                             | 0.01% |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                                                                              | 335-76-2<br>3830-45-3<br>3108-42-7  | 0.01% |
| 172 | 4-heptylphenol, branched and linear [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] | -                                   | 0.01% |
| 173 | p-(1,1-dimethylpropyl)phenol                                                                                                                                                                                                                                                                      | 80-46-6                             | 0.01% |
| 174 | Perfluorohexane-1-sulfonic acid and its salts (PFHxS)                                                                                                                                                                                                                                             | -                                   | 0.01% |
| 175 | Chrysene                                                                                                                                                                                                                                                                                          | 218-01-9                            | 0.01% |
| 176 | Benz[a]anthracene                                                                                                                                                                                                                                                                                 | 56-55-3                             | 0.01% |
| 177 | Cadmium nitrate(*3)                                                                                                                                                                                                                                                                               | 10325-94-7                          | 0.01% |
| 178 | Cadmium hydroxide(*3)                                                                                                                                                                                                                                                                             | 21041-95-2                          | 0.01% |
| 179 | Cadmium carbonate(*3)                                                                                                                                                                                                                                                                             | 513-78-0                            | 0.01% |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]                                               | -                                   | 0.01% |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]                                                                                                                        | -                                   | 0.01% |

**Test Report No.: 1613048782-02**

Page 8 of 9

## Remark:

- (\*3) The substances are tested and calculated in terms of its respective elements (e.g. As, Pb, Co, B, Cd, Sn).
- (\*4) The substances are tested and calculated in terms of Cr (VI).
- (\*5) The substance is tested and calculated in terms of Tributyl tin.
- (\*6) The substances are confirmed and tested in terms of Boric acid when Boron is detected in the sample.
- (\*7) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (\*8) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (\*9) The test results are based on microscopic and chemical evaluation.
- (\*10) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
- (\*11) The content oligomer is determined by Py-GC/MS.
- (\*12) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
- (\*13) The substance is tested in terms of pentadecafluorooctanoate.
- (\*14) The substance is tested and calculated in terms of Dioctyl tin.
- (\*15) The substance is tested and calculated in terms of Mono-octyl tin and Dioctyl tin.

**Test Report No.: 1613048782-02**

Page 9 of 9

Sample Photo



Lab ID.: A000738825-002

- END -