



**CIRS**

**C&K**  
C&K Testing

# Test Report

**Report No.: TS19070031**



Verify authenticity

**Applicant**

**Bagco Asia Limited**

**Address**

Suite 1902, Tamson Plaza, 161 Wai Yip Street,  
Kwun Tong, Kowloon, Hongkong

**Report Date**

**2019-07-09**

**Hangzhou C&K Testing Technic Co., Ltd.**



**Hangzhou C&K Testing Technic Co., Ltd**

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## Test Report

|                             |                                                                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>            | Bagco Asia Limited                                                                                                                                                                                                                                                                                            |
| <b>Address</b>              | Suite 1902, Tamson Plaza, 161 Wai Yip Street, Kwun Tong, Kowloon, Hongkong                                                                                                                                                                                                                                    |
| <b>Sample Name</b>          | Dartford PVC                                                                                                                                                                                                                                                                                                  |
| <b>Type/ Model</b>          | /                                                                                                                                                                                                                                                                                                             |
| <b>Material/Colour</b>      | /                                                                                                                                                                                                                                                                                                             |
| <b>Other Info.</b>          | Colour:Black                                                                                                                                                                                                                                                                                                  |
| <b>Sample Received Date</b> | 2019-07-01                                                                                                                                                                                                                                                                                                    |
| <b>Test Period</b>          | 2019-07-01~ 2019-07-09                                                                                                                                                                                                                                                                                        |
| <b>Test Requirement</b>     | One hundred and ninety seven (197) Substances of Very High Concern (SVHC) analysis. SVHC list is based on the publication by European Chemical Agency (ECHA), regarding regulation (EC) No 1907/2006 concerning the REACH (197 SVHCs are less than the concentration limit of 0.1 % weight by weight (w/w).). |
| <b>Test Method</b>          | CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003, CIRS-TC-SVHC004, CIRS-TC-SVHC005, CIRS-TC-SVHC006                                                                                                                                                                                                          |
| <b>Test Results</b>         | The concentrations of the 197 SVHCs defined in Article 57 of REACH Regulation in the client's product(s) are less than the concentration limit of 0.1 % weight by weight (w/w).                                                                                                                               |

Complied by

*Beta Xu*

Beta Xu

Inspected by

*Li Xuefeng*

Li Xuefeng

Authorized by

*Li Changhai*Li Changhai  
Accredited Signatory

Hangzhou C&amp;K Testing Technic Co., Ltd

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**Test Component(s):**

| No. | Sample Serial No. | Test Component(s) | Type/Model | Material/Colour | Other Info. |
|-----|-------------------|-------------------|------------|-----------------|-------------|
| 001 | TS19070031001     | Dartford PVC      | /          | /               | /           |

**Photo(s):**



TS19070031001

## Test Result(s):

| No. | Test Item(s)                                                                                                                                                                   | CAS No.                                                                     | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----|----------------|
|     |                                                                                                                                                                                |                                                                             |     | 001            |
| 1   | Anthracene                                                                                                                                                                     | 120-12-7                                                                    | 100 | N.D.           |
| 2   | 4,4'- Diaminodiphenylmethane(MDA)                                                                                                                                              | 101-77-9                                                                    | 100 | N.D.           |
| 3   | 5-tert-butyl-2,4,6-trinitro-m-xylene<br>(musk xylene)                                                                                                                          | 81-15-2                                                                     | 100 | N.D.           |
| 4   | Hexabromocyclododecane<br>(HBCDD) and all major<br>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) | 100 | N.D.           |
| 5   | Alkanes, C10-13,chloro (Short<br>ChainChlorinated Paraffins)                                                                                                                   | 85535-84-8                                                                  | 100 | N.D.           |
| 6   | Dibutyl phthalate(DBP)                                                                                                                                                         | 84-74-2                                                                     | 100 | N.D.           |
| 7   | Bis (2-ethylhexyl) phthalate (DEHP)                                                                                                                                            | 117-81-7                                                                    | 100 | N.D.           |
| 8   | Benzyl butyl phthalate(BBP)                                                                                                                                                    | 85-68-7                                                                     | 100 | N.D.           |
| 9   | Cobalt dichloride                                                                                                                                                              | 7646-79-9                                                                   | 100 | N.D.           |
| 10  | Bis(tributyltin)oxide(TBTO)                                                                                                                                                    | 56-35-9                                                                     | 100 | N.D.           |
| 11  | Sodium dichromate                                                                                                                                                              | 7789-12-0,<br>10588-01-9                                                    | 100 | N.D.           |
| 12  | Lead hydrogen arsenate                                                                                                                                                         | 7784-40-9                                                                   | 100 | N.D.           |
| 13  | Diarsenic trioxide                                                                                                                                                             | 1327-53-3                                                                   | 100 | N.D.           |
| 14  | Diarsenic pentaoxide                                                                                                                                                           | 1303-28-2                                                                   | 100 | N.D.           |
| 15  | Triethyl arsenate                                                                                                                                                              | 15606-95-8                                                                  | 100 | N.D.           |
| 16  | Anthracene oil                                                                                                                                                                 | 90640-80-5                                                                  | 100 | N.D.           |
| 17  | Anthracene oil, anthracene paste,<br>distn. lights                                                                                                                             | 91995-17-4                                                                  | 100 | N.D.           |
| 18  | Anthracene oil, anthracene paste,<br>anthracene fraction                                                                                                                       | 91995-15-2                                                                  | 100 | N.D.           |
| 19  | Anthracene oil, anthracene-low                                                                                                                                                 | 90640-82-7                                                                  | 100 | N.D.           |
| 20  | Anthracene oil, anthracene paste                                                                                                                                               | 90640-81-6                                                                  | 100 | N.D.           |
| 21  | Pitch, coal tar, high temp.                                                                                                                                                    | 65996-93-2                                                                  | 100 | N.D.           |
| 22  | Acrylamide                                                                                                                                                                     | 79-06-1                                                                     | 100 | N.D.           |
| 23  | 2,4-Dinitrotoluene                                                                                                                                                             | 121-14-2                                                                    | 100 | N.D.           |
| 24  | Diisobutyl phthalate                                                                                                                                                           | 84-69-5                                                                     | 100 | N.D.           |
| 25  | Tris(2-chloroethyl)phosphate                                                                                                                                                   | 115-96-8                                                                    | 100 | N.D.           |
| 26  | Lead chromate                                                                                                                                                                  | 7758-97-6                                                                   | 100 | N.D.           |





| No. | Test Item(s)                                                                                                                                                             | CAS No.                                | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----|----------------|
|     |                                                                                                                                                                          |                                        |     | 001            |
| 27  | Lead chromate molybdate sulphate red(C.I. Pigment Red 104)                                                                                                               | 12656-85-8                             | 100 | N.D.           |
| 28  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)                                                                                                                       | 1344-37-2                              | 100 | N.D.           |
| 29  | Trichloroethylene                                                                                                                                                        | 79-01-6                                | 100 | N.D.           |
| 30  | Boric acid                                                                                                                                                               | 10043-35-3,<br>11113-50-1              | 100 | N.D.           |
| 31  | Disodium tetraborate, anhydrous                                                                                                                                          | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | 100 | N.D.           |
| 32  | Tetraboron disodium heptaoxide, hydrate                                                                                                                                  | 12267-73-1                             | 100 | N.D.           |
| 33  | Sodium chromate                                                                                                                                                          | 7775-11-3                              | 100 | N.D.           |
| 34  | Potassium chromate                                                                                                                                                       | 7789-00-6                              | 100 | N.D.           |
| 35  | Ammonium dichromate                                                                                                                                                      | 7789-09-5                              | 100 | N.D.           |
| 36  | Potassium dichromate                                                                                                                                                     | 7778-50-9                              | 100 | N.D.           |
| 37  | Chromium trioxide                                                                                                                                                        | 1333-82-0                              | 100 | N.D.           |
| 38  | 2-Ethoxyethanol                                                                                                                                                          | 110-80-5                               | 100 | N.D.           |
| 39  | 2-Methoxyethanol                                                                                                                                                         | 109-86-4                               | 100 | N.D.           |
| 40  | Cobalt(II) diacetate                                                                                                                                                     | 71-48-7                                | 100 | N.D.           |
| 41  | Cobalt (II) carbonate                                                                                                                                                    | 513-79-1                               | 100 | N.D.           |
| 42  | Cobalt dinitrate                                                                                                                                                         | 10141-05-6                             | 100 | N.D.           |
| 43  | Cobalt (II) sulphate                                                                                                                                                     | 10124-43-3                             | 100 | N.D.           |
| 44  | Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid | 7738-94-5,<br>13530-68-2               | 100 | N.D.           |
| 45  | 2-Ethoxyethyl acetate                                                                                                                                                    | 111-15-9                               | 100 | N.D.           |
| 46  | Strontium chromate                                                                                                                                                       | 7789-06-2                              | 100 | N.D.           |
| 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters                                                                                                  | 68515-42-4                             | 100 | N.D.           |
| 48  | Hydrazine                                                                                                                                                                | 7803-57-8<br>302-01-2                  | 100 | N.D.           |
| 49  | N-methyl-2-pyrrolidone;<br>1-methyl-2-pyrrolidone                                                                                                                        | 872-50-4                               | 100 | N.D.           |
| 50  | 1,2,3-trichloropropane                                                                                                                                                   | 96-18-4                                | 100 | N.D.           |



| No. | Test Item(s)                                                                            | CAS No.    | MDL | Test Result(s) |
|-----|-----------------------------------------------------------------------------------------|------------|-----|----------------|
|     |                                                                                         |            |     | 001            |
| 51  | 1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich                   | 71888-89-6 | 100 | N.D.           |
| 52  | Calcium arsenate                                                                        | 7778-44-1  | 100 | N.D.           |
| 53  | Bis(2-methoxyethyl) ether                                                               | 111-96-6   | 100 | N.D.           |
| 54  | Potassium hydroxyoctaoxodizincatedichromate                                             | 11103-86-9 | 100 | N.D.           |
| 55  | Lead dipicrate                                                                          | 6477-64-1  | 100 | N.D.           |
| 56  | N,N-dimethylacetamide                                                                   | 127-19-5   | 100 | N.D.           |
| 57  | Arsenic acid                                                                            | 7778-39-4  | 100 | N.D.           |
| 58  | 2-Methoxyaniline; o-Anisidine                                                           | 90-04-0    | 100 | N.D.           |
| 59  | Trilead diarsenate                                                                      | 3687-31-8  | 100 | N.D.           |
| 60  | 1,2-dichloroethane                                                                      | 107-06-2   | 100 | N.D.           |
| 61  | Pentazinc chromate octahydroxide                                                        | 49663-84-5 | 100 | N.D.           |
| 62  | 4-(1,1,3,3-tetramethylbutyl)phenol                                                      | 140-66-9   | 100 | N.D.           |
| 63  | Formaldehyde, oligomeric reaction products with aniline                                 | 25214-70-4 | 100 | N.D.           |
| 64  | Bis(2-methoxyethyl) phthalate                                                           | 117-82-8   | 100 | N.D.           |
| 65  | Lead diazide, Lead azide                                                                | 13424-46-9 | 100 | N.D.           |
| 66  | Lead styphnate                                                                          | 15245-44-0 | 100 | N.D.           |
| 67  | 2,2'-dichloro-4,4'-methylenedianiline                                                   | 101-14-4   | 100 | N.D.           |
| 68  | Phenolphthalein                                                                         | 77-09-8    | 100 | N.D.           |
| 69  | Dichromium tris(chromate)                                                               | 24613-89-6 | 100 | N.D.           |
| 70* | Aluminosilicate Refractory Ceramic Fibres                                               | --         | 100 | N.D.           |
| 71* | Zirconia Aluminosilicate, Refractory Ceramic Fibres                                     | --         | 100 | N.D.           |
| 72  | 1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)                                     | 112-49-2   | 100 | N.D.           |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                             | 110-71-4   | 100 | N.D.           |
| 74  | Diboron trioxide                                                                        | 1303-86-2  | 100 | N.D.           |
| 75  | Formamide                                                                               | 75-12-7    | 100 | N.D.           |
| 76  | Lead (II) bis (methanesulfonate)                                                        | 17570-76-2 | 100 | N.D.           |
| 77  | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)                        | 2451-62-9  | 100 | N.D.           |
| 78  | 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 | 100 | N.D.           |



| No.  | Test Item(s)                                                                                                                              | CAS No.                               | MDL | Test Result(s) |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|----------------|
|      |                                                                                                                                           |                                       |     | 001            |
| 79   | 4,4'-bis (dimethylamino) benzophenone (Michler's ketone)                                                                                  | 90-94-8                               | 100 | N.D.           |
| 80   | N, N, N', N' -tetramethyl -4,4' -methylenedianiline (Michler's base)                                                                      | 101-61-1                              | 100 | N.D.           |
| 81** | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                  | 548-62-9                              | 100 | N.D.           |
| 82** | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5                             | 100 | N.D.           |
| 83** | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                 | 6786-83-0                             | 100 | N.D.           |
| 84** | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol                                                                                   | 561-41-1                              | 100 | N.D.           |
| 85   | Bis(pentabromophenyl) ether (decabromodiphenylether; DecaBDE)                                                                             | 1163-19-5                             | 100 | N.D.           |
| 86   | Pentacosafuorotridecanoic acid                                                                                                            | 72629-94-8                            | 100 | N.D.           |
| 87   | Tricosafuorododecanoic acid                                                                                                               | 307-55-1                              | 100 | N.D.           |
| 88   | Henicosafuoroundecanoic acid                                                                                                              | 2058-94-8                             | 100 | N.D.           |
| 89   | Heptacosafuorotetradecanoic acid                                                                                                          | 376-06-7                              | 100 | N.D.           |
| 90   | Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                         | 123-77-3                              | 100 | N.D.           |
| 91   | Cyclohexane-1,2-dicarboxylic anhydride;<br>cis-cyclohexane-1,2-dicarboxylic anhydride;<br>trans-cyclohexane-1,2-dicarboxylic anhydride    | 85-42-7,<br>13149-00-3,<br>14166-21-3 | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                 | CAS No.                                                 | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------------|
|     |                                                                                                                                                              |                                                         |     | 001            |
| 92  | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>Hexahydro-3-methylphthalic anhydride | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | 100 | N.D.           |
| 93  | 4-Nonylphenol, branched and linear                                                                                                                           | --                                                      | 100 | N.D.           |
| 94  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated                                                                                                              | --                                                      | 100 | N.D.           |
| 95  | Methoxyacetic acid                                                                                                                                           | 625-45-6                                                | 100 | N.D.           |
| 96  | N,N-dimethylformamide                                                                                                                                        | 68-12-2                                                 | 100 | N.D.           |
| 97  | Dibutyltin dichloride (DBTC)                                                                                                                                 | 683-18-1                                                | 100 | N.D.           |
| 98  | Lead monoxide (Lead oxide)                                                                                                                                   | 1317-36-8                                               | 100 | N.D.           |
| 99  | Orange lead (Lead tetroxide)                                                                                                                                 | 1314-41-6                                               | 100 | N.D.           |
| 100 | Lead bis(tetrafluoroborate)                                                                                                                                  | 13814-96-5                                              | 100 | N.D.           |
| 101 | Trilead bis(carbonate)dihydroxide                                                                                                                            | 1319-46-6                                               | 100 | N.D.           |
| 102 | Lead titanium trioxide                                                                                                                                       | 12060-00-3                                              | 100 | N.D.           |
| 103 | Lead titanium zirconium oxide                                                                                                                                | 12626-81-2                                              | 100 | N.D.           |
| 104 | Silicic acid, lead salt                                                                                                                                      | 11120-22-2                                              | 100 | N.D.           |
| 105 | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped                                                                 | 68784-75-8                                              | 100 | N.D.           |
| 106 | 1-bromopropane (n-propyl bromide)                                                                                                                            | 106-94-5                                                | 100 | N.D.           |
| 107 | Methyloxirane (Propylene oxide)                                                                                                                              | 75-56-9                                                 | 100 | N.D.           |
| 108 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                             | 84777-06-0                                              | 100 | N.D.           |
| 109 | Diisopentylphthalate (DIPP)                                                                                                                                  | 605-50-5                                                | 100 | N.D.           |
| 110 | N-pentyl-isopentylphthalate                                                                                                                                  | 776297-69-9                                             | 100 | N.D.           |
| 111 | 1,2-diethoxyethane                                                                                                                                           | 629-14-1                                                | 100 | N.D.           |
| 112 | Acetic acid, lead salt, basic                                                                                                                                | 51404-69-4                                              | 100 | N.D.           |
| 113 | Lead oxide sulfate                                                                                                                                           | 12036-76-9                                              | 100 | N.D.           |
| 114 | [Phthalato(2-)]dioxotrilead                                                                                                                                  | 69011-06-9                                              | 100 | N.D.           |
| 115 | Dioxobis(stearato)trilead                                                                                                                                    | 12578-12-0                                              | 100 | N.D.           |
| 116 | Fatty acids, C16-18, lead salts                                                                                                                              | 91031-62-8                                              | 100 | N.D.           |
| 117 | Lead cyanamate                                                                                                                                               | 20837-86-9                                              | 100 | N.D.           |
| 118 | Lead dinitrate                                                                                                                                               | 10099-74-8                                              | 100 | N.D.           |
| 119 | Pentalead tetraoxide sulphate                                                                                                                                | 12065-90-6                                              | 100 | N.D.           |
| 120 | Pyrochlore, antimony lead yellow                                                                                                                             | 8012-00-8                                               | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                                                                                                                                                                                       | CAS No.     | MDL | Test Result(s) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                                                                    |             |     | 001            |
| 121 | Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                                                                                                 | 62229-08-7  | 100 | N.D.           |
| 122 | Tetraethyllead                                                                                                                                                                                                                                                                                                                     | 78-00-2     | 100 | N.D.           |
| 123 | Tetralead trioxide sulphate                                                                                                                                                                                                                                                                                                        | 12202-17-4  | 100 | N.D.           |
| 124 | Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                        | 12141-20-7  | 100 | N.D.           |
| 125 | Furan                                                                                                                                                                                                                                                                                                                              | 110-00-9    | 100 | N.D.           |
| 126 | Diethyl sulphate                                                                                                                                                                                                                                                                                                                   | 64-67-5     | 100 | N.D.           |
| 127 | Dimethyl sulphate                                                                                                                                                                                                                                                                                                                  | 77-78-1     | 100 | N.D.           |
| 128 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                 | 143860-04-2 | 100 | N.D.           |
| 129 | Dinoseb<br>(6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                                                         | 88-85-7     | 100 | N.D.           |
| 130 | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                       | 838-88-0    | 100 | N.D.           |
| 131 | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                    | 101-80-4    | 100 | N.D.           |
| 132 | 4-aminoazobenzene                                                                                                                                                                                                                                                                                                                  | 60-09-3     | 100 | N.D.           |
| 133 | 4-methyl-m-phenylenediamine<br>(toluene-2,4-diamine)                                                                                                                                                                                                                                                                               | 95-80-7     | 100 | N.D.           |
| 134 | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                | 120-71-8    | 100 | N.D.           |
| 135 | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                 | 92-67-1     | 100 | N.D.           |
| 136 | o-aminoazotoluene<br>[(4-o-tolylazo-o-toluidine)]                                                                                                                                                                                                                                                                                  | 97-56-3     | 100 | N.D.           |
| 137 | o-toluidine                                                                                                                                                                                                                                                                                                                        | 95-53-4     | 100 | N.D.           |
| 138 | N-methylacetamide                                                                                                                                                                                                                                                                                                                  | 79-16-3     | 100 | N.D.           |
| 139 | Cadmium                                                                                                                                                                                                                                                                                                                            | 7440-43-9   | 100 | N.D.           |
| 140 | Cadmium oxide                                                                                                                                                                                                                                                                                                                      | 1306-19-0   | 100 | N.D.           |
| 141 | Ammonium pentadecafluorooctanoate<br>(APFO)                                                                                                                                                                                                                                                                                        | 3825-26-1   | 100 | N.D.           |
| 142 | Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                | 335-67-1    | 100 | N.D.           |
| 143 | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                           | 131-18-0    | 100 | N.D.           |
| 144 | 4-Nonylphenol, branched and linear, ethoxylated[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] | --          | 100 | N.D.           |
| 145 | Cadmium sulphide                                                                                                                                                                                                                                                                                                                   | 1306-23-6   | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                           | CAS No.                   | MDL | Test Result(s) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|----------------|
|     |                                                                                                                                                                        |                           |     | 001            |
| 146 | Dihexyl phthalate (DHXP)                                                                                                                                               | 84-75-3                   | 100 | N.D.           |
| 147 | Disodium<br>3,3'-[[1,1'-biphenyl]-4,4'-diylbis<br>(azo)]bis(4-aminonaphthalene-1-sulp<br>honate) (C.I. Direct Red 28)                                                  | 573-58-0                  | 100 | N.D.           |
| 148 | Disodium<br>4-amino-3-[[4'-[(2,4-diaminophenyl)<br>azo] [1,1'-biphenyl]-4-yl]azo]<br>-5-hydroxy-6-(phenylazo)<br>naphthalene-2,7-disulphonate(C.I.<br>Direct Black 38) | 1937-37-7                 | 100 | N.D.           |
| 149 | Imidazolidine-2-thione;<br>2-imidazoline-2-thiol                                                                                                                       | 96-45-7                   | 100 | N.D.           |
| 150 | Lead di(acetate)                                                                                                                                                       | 301-04-2                  | 100 | N.D.           |
| 151 | Trixylyl phosphate                                                                                                                                                     | 25155-23-1                | 100 | N.D.           |
| 152 | Cadmium chloride                                                                                                                                                       | 10108-64-2                | 100 | N.D.           |
| 153 | 1,2-Benzenedicarboxylic acid,<br>dihexyl ester, branched and linear                                                                                                    | 68515-50-4                | 100 | N.D.           |
| 154 | Sodium peroxometaborate                                                                                                                                                | 7632-04-4                 | 100 | N.D.           |
| 155 | Sodium perborate; perboric acid,<br>sodium salt                                                                                                                        | --                        | 100 | N.D.           |
| 156 | Cadmium fluoride                                                                                                                                                       | 7790-79-6                 | 100 | N.D.           |
| 157 | Cadmium sulphate                                                                                                                                                       | 10124-36-4;<br>31119-53-6 | 100 | N.D.           |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylp<br>henol (UV-320)                                                                                                               | 3846-71-7                 | 100 | N.D.           |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-diterte<br>ntylphenol (UV-328)                                                                                                            | 25973-55-1                | 100 | N.D.           |
| 160 | 2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5<br>-dithia-4-stannatetradecanoate<br>(DOTE)                                                                       | 15571-58-1                | 100 | N.D.           |

| No. | Test Item(s)                                                                                                                                                                                                                                                 | CAS No.                              | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----|----------------|
|     |                                                                                                                                                                                                                                                              |                                      |     | 001            |
| 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) | --                                   | 100 | N.D.           |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)                                                                        | 68515-51-5;<br>68648-93-1            | 100 | N.D.           |
| 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]                   | --                                   | 100 | N.D.           |
| 164 | Nitrobenzene                                                                                                                                                                                                                                                 | 98-95-3                              | 100 | N.D.           |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)                                                                                                                                                                                              | 3864-99-1                            | 100 | N.D.           |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)                                                                                                                                                                                        | 36437-37-3                           | 100 | N.D.           |
| 167 | 1,3-propanesultone                                                                                                                                                                                                                                           | 1120-71-4                            | 100 | N.D.           |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts                                                                                                                                                                                                  | 375-95-1<br>21049-39-8<br>4149-60-4  | 100 | N.D.           |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                          | 50-32-8                              | 100 | N.D.           |
| 170 | Bisphenol A (BPA)                                                                                                                                                                                                                                            | 80-05-7                              | 100 | N.D.           |
| 171 | Perfluorononan-1-kwai-acid and its sodium and ammonium salts                                                                                                                                                                                                 | 335-76-2,<br>3108-42-7,<br>3830-45-3 | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                                                                                                                                                      | CAS No.                  | MDL | Test Result(s) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                                   |                          |     | 001            |
| 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] | --                       | 100 | N.D.           |
| 173 | p-(1,1-Dimethylpropyl)phenol                                                                                                                                                                                                                                                                      | 80-46-6                  | 100 | N.D.           |
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS)                                                                                                                                                                                                                                            | --                       | 100 | N.D.           |
| 175 | Benzo(a)anthracene                                                                                                                                                                                                                                                                                | 56-55-3<br>1718-53-2     | 100 | N.D.           |
| 176 | Cadmium carbonate                                                                                                                                                                                                                                                                                 | 513-78-0                 | 100 | N.D.           |
| 177 | Cadmium hydroxide                                                                                                                                                                                                                                                                                 | 21041-95-2               | 100 | N.D.           |
| 178 | Cadmium nitrate                                                                                                                                                                                                                                                                                   | 10022-68-1<br>10325-94-7 | 100 | N.D.           |
| 179 | Chrysene                                                                                                                                                                                                                                                                                          | 218-01-9<br>1719-03-5    | 100 | N.D.           |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]                                                                                          | --                       | 100 | N.D.           |
| 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]                                                                                                                        | --                       | 100 | N.D.           |
| 182 | Octamethylcyclotetrasiloxane (D4)                                                                                                                                                                                                                                                                 | 556-67-2                 | 100 | N.D.           |
| 183 | Decamethylcyclopentasiloxane (D5)                                                                                                                                                                                                                                                                 | 541-02-6                 | 100 | N.D.           |
| 184 | Dodecamethylcyclohexasiloxane (D6)                                                                                                                                                                                                                                                                | 540-97-6                 | 100 | N.D.           |
| 185 | Lead                                                                                                                                                                                                                                                                                              | 7439-92-1                | 100 | N.D.           |
| 186 | Disodium octaborate                                                                                                                                                                                                                                                                               | 12008-41-2               | 100 | N.D.           |

| No. | Test Item(s)                                                                 | CAS No.    | MDL | Test Result(s) |
|-----|------------------------------------------------------------------------------|------------|-----|----------------|
|     |                                                                              |            |     | 001            |
| 187 | Benzo[ghi]perylene                                                           | 191-24-2   | 100 | N.D.           |
| 188 | Terphenyl hydrogenated                                                       | 61788-32-7 | 100 | N.D.           |
| 189 | Ethylenediamine (EDA)                                                        | 107-15-3   | 100 | N.D.           |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) | 552-30-7   | 100 | N.D.           |
| 191 | Dicyclohexyl phthalate (DCHP)                                                | 84-61-7    | 100 | N.D.           |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                    | 6807-17-6  | 100 | N.D.           |
| 193 | Benzo[k]fluoranthene                                                         | 207-08-9   | 100 | N.D.           |
| 194 | Fluoranthene                                                                 | 206-44-0   | 100 | N.D.           |
| 195 | Phenanthrene                                                                 | 85-01-8    | 100 | N.D.           |
| 196 | Pyrene                                                                       | 129-00-0   | 100 | N.D.           |
| 197 | 1,7,7-trimethyl-3- (phenylmethylene) bicyclo[2.2.1]heptan-2-one              | 15087-24-8 | 100 | N.D.           |

## Remarks:

- Unit: mg/kg. 1000mg/kg = 1000ppm= 0.1%. N.D. = Not detected (<MDL); MDL= Method Detection Limits.
- \*: Be covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures:  
(70\*) Aluminosilicate Refractory Ceramic Fibres
  - oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges
  - fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres ( $\mu\text{m}$ )
  - alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight
- (71\*) Zirconia Aluminosilicate Refractory Ceramic Fibres
  - oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges
  - fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres ( $\mu\text{m}$ ).
  - alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight
- \*\* (Items 81, 82, 83, 84) [with  $\geq 0.1\%$  of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] is identified as a substance meeting the criteria of Article 57 (a) of Regulation (EC) 1907/2006 (REACH) owing to its classification as carcinogen category 1A or 1B.
- The substances are tested by in-house methods: CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003, CIRS-TC-SVHC004, CIRS-TC-SVHC005 and CIRS-TC-SVHC006 which refer to

the methods listed below:

- 1) US EPA 3540C:1996 Soxhlet Extraction
- 2) US EPA 3550C:2007 Ultrasonic Extraction
- 3) US EPA 8270D:2014 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
- 4) EN 14372:2004 Child use and care articles-Cutlery and feeding utensils-Safety requirements and tests
- 5) ISO 14362-1:2017 Textiles - Methods for determination of certain aromatic amines derived from Azo colorants - Part 1: Detection of the use of certain Azo colorants accessible with and without extracting the fibres
- 6) ISO 14362-3:2017 Textiles. Methods for determination of certain aromatic amines derived from Azo colorants. Part 3:Detection of the use of certain Azo colorants, which may release 4-aminoazobenzene
- 7) ISO 18219:2012 Leather. Chemical tests. Determination of short-chain chlorinated paraffins
- 8) ISO 16189:2013 Footwear-Critical substances potentially present in footwear and footwear components -Test method to quantitatively determine dimethylformamide in footwear materials
- 9) EN 71-3:2013+A1:2014 Safety Of Toys - Part 3: Migration Of Certain Elements Annex G: Method of analysis for organic tin
- 10) AfPS GS 2014:01 PAK Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark
- 11) IEC 62321-6:2015 Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS)
- 12) EPA 8061A:1996 Phthalate Esters by Gas Chromatography with Electron Capture Detection (GC/ECD)
- 13) US EPA 8260B:1996 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
- 14) EPA 5021A:2014 Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis
- 15) CNS 15493-2015 Safety requirements of plastic puzzle ground mat
- 16) US EPA 3050B:1996 Acid Digestion of Sediments, Sludges, and Soils
- 17) US EPA 3052:1996 Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
- 18) US EPA 3051A:2007 Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
- 19) US EPA 6010D:2014 Inductively Coupled Plasma-Optical Emission Spectrometry
- 20) ISO 17075-1:2017 Leather-Chemical tests-Determination of chromium(VI) content
- 21) US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium
- 22) US EPA 7196A:1992 Chromium, Hexavalent (Colorimetric)
- 23) ISO 3613:2010 Test methods—Metallic and other inorganic coatings — Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys
- 24) ASTM D7065:2011 Standard Test Method for Determination of Nonylphenol,Bisphenol A,p-tert-Octylphenol,Nonylphenol Monoethoxylate and Nonylphenol Diethoxylate in Environmental Waters by Gas Chromatography Mass Spectrometry
- 25) ISO 18218-2:2015 Leather - Determination of ethoxylated alkylphenols. Part 2:Indirect
- 26) SN/T 1850.1-2006 Determination of alkylphenol polyethoxylates in textiles. Part 1:High performance liquid chromatography method
- 27) US EPA 8321B:2007 Solvent-extractable nonvolatile compounds by high-performance liquid chromatography/ thermospray/ mass spectrometry (HPLC/TS/MS) or ultraviolet(UV) detection



- 28) DIN 54231:2005 Textiles - Detection of disperse dyestuffs
- 29) GB/T 29609-2013 Rubber-Determination of phenol and biphenyl-A
5. Because it is difficult to detect the substances ( $\text{CoCl}_2$ ,  $\text{C}_{24}\text{H}_{54}\text{OSn}_2$ ,  $\text{Na}_2\text{Cr}_2\text{O}_7$ ,  $\text{PbAsHO}_4$ ,  $\text{As}_2\text{O}_3$ ,  $\text{As}_2\text{O}_5$ , Triethyl arsenate  $\text{PbCrO}_4$ , Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Lead sulfochromate yellow (C.I. Pigment Yellow 34), Triethyl arsenate,  $\text{H}_3\text{BO}_3$ ,  $\text{Na}_2\text{B}_4\text{O}_7$ ,  $\text{Na}_2\text{B}_4\text{O}_7 \cdot 7\text{H}_2\text{O}$ ,  $\text{Na}_2\text{CrO}_4$ ,  $\text{K}_2\text{CrO}_4$ ,  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ ,  $\text{K}_2\text{Cr}_2\text{O}_7$ ,  $\text{CrO}_3$ ,  $\text{Co}(\text{CH}_3\text{COO})_2$ ,  $\text{CoCO}_3$ ,  $\text{Co}(\text{NO}_3)_2$ ,  $\text{CoSO}_4$ ,  $\text{SrCrO}_4$ , Calcium arsenate, Potassium hydroxyoctaoxodizincatedichromate, Lead dipicrate, Arsenic acid, Trilead diarsenate, Pentazinc chromate octahydroxide, Lead diazide, Lead azide, Lead styphnate, Diboron trioxide, Lead (II) bis (methanesulfonate), Aluminosilicate Refractory Ceramic Fibres, Zirconia Aluminosilicate, Refractory Ceramic Fibres, Dichromium tris(chromate), Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid, Dibutyltin dichloride (DBTC), Lead monoxide (Lead oxide), Orange lead (Lead tetroxide), Lead bis(tetrafluoroborate), Trilead bis(carbonate)dihydroxide, Lead titanium trioxide, Lead titanium zirconium oxide, Silicic acid, lead salt, (Silicic acid ( $\text{H}_2\text{Si}_2\text{O}_5$ ), barium salt (1:1), lead-doped), (Acetic acid, lead salt, basic), Lead oxide sulfate, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, (Fatty acids, C16-18, lead salts), Lead cyanamate, Lead dinitrate, Pentalead tetraoxide sulphate, (Pyrochlore, antimony lead yellow), (Sulfurous acid, lead salt, dibasic), Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Cadmium chloride, Sodium peroxometaborate, (Sodium perborate; perboric acid, sodium salt), Cadmium fluoride, Cadmium sulphate, Cadmium carbonate, Cadmium hydroxide, Cadmium nitrate, Lead, Disodium octaborate) via direct tests but via converting them into detectable elements, we consider that all the relative elements exist in the form of their compounds when having the test.

**Statement:**

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\*\*\*The end of report\*\*\*