



# Test Report

Report No.: TR20165237

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Applicant   | Bagco Asia Ltd                                                      |
| Address     | Suite 1902, Tamson Plaza, 161 Wai Yip Street,<br>Kwun Tong, Kowloon |
| Report Date | 2016-08-11                                                          |

**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 Ltd                                                                                                                                                                                                                                                                                              |
| <b>Address</b>              | Suite 1902, Tamson Plaza, 161 Wai Yip Street, Kwun Tong, Kowloon                                                                                                                                                                                                                                            |
| <b>Sample Name</b>          | 300*250D with PVC backing-Black/Navy/Royal                                                                                                                                                                                                                                                                  |
| <b>Type/ Model</b>          | /                                                                                                                                                                                                                                                                                                           |
| <b>Sample Received Date</b> | 2016-08-05                                                                                                                                                                                                                                                                                                  |
| <b>Test Period</b>          | 2016-08-05~ 2016-08-11                                                                                                                                                                                                                                                                                      |
| <b>Test Requirement</b>     | One hundred and sixty nine (169) 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 (169 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,<br>CIRS-TC-SVHC004, CIRS-TC-SVHC005, CIRS-TC-SVHC006                                                                                                                                                                                                       |
| <b>Test Results</b>         | The concentrations of the 169 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

*Crystal Su*

Inspected by

*Kale Zhang*

Authorized by

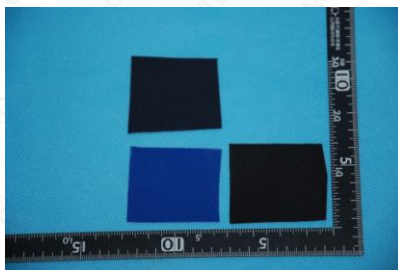
*Mark Li*



**Test Component(s):**

| No. | Sample Serial No. | Test Component(s)                          |
|-----|-------------------|--------------------------------------------|
| 001 | TR20165237001     | 300*250D with PVC backing-Black/Navy/Royal |

**Photo(s):**



TR20165237(Mixed)



**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                                                                     | 10  | N.D.           |
| 7   | Bis (2-ethylhexyl) phthalate (DEHP)                                                                                                                                            | 117-81-7                                                                    | 10  | N.D.           |
| 8   | Benzyl butyl phthalate(BBP)                                                                                                                                                    | 85-68-7                                                                     | 10  | 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                                                                     | 10  | N.D.           |
| 25  | Tris(2-chloroethyl)phosphate                                                                                                                                                   | 115-96-8                                                                    | 100 | N.D.           |
| 26  | Lead chromate                                                                                                                                                                  | 7758-97-6                                                                   | 100 | N.D.           |
| 27  | Lead chromate molybdate sulphate<br>red(C.I. Pigment Red 104)                                                                                                                  | 12656-85-8                                                                  | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                                         | CAS No.                                | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----|----------------|
|     |                                                                                                                                                                                      |                                        |     | 001            |
| 28  | Lead sulfochromate yellow<br>(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,<br>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<br>trioxide and their oligomers. Group<br>containing: Chromic acid, Dichromic<br>acid, Dichromic acid, Oligomers of<br>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,<br>di-C7-11-branched and linear alkyl<br>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.           |
| 51  | 1, 2-Benzenedicarboxylic acid,<br>di-C6-8-branched alkyl esters,<br>C7-rich                                                                                                          | 71888-89-6                             | 100 | N.D.           |



| No. | Test Item(s)                                                                            | CAS No.    | MDL | Test Result(s) |
|-----|-----------------------------------------------------------------------------------------|------------|-----|----------------|
|     |                                                                                         |            |     | 001            |
| 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   | 10  | 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.           |
| 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.           |



| No.  | Test Item(s)                                                                                                                                                 | CAS No.                                                 | MDL | Test Result(s) |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------------|
|      |                                                                                                                                                              |                                                         |     | 001            |
| 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                                               | 10  | 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   | Diazene-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.           |
| 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.           |



| No. | Test Item(s)                                                                   | CAS No.     | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------|-------------|-----|----------------|
|     |                                                                                |             |     | 001            |
| 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> SiO <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.           |
| 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 (6-sec-butyl-2,4-dinitrophenol)                                        | 88-85-7     | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                                                                                                                                                                                       | CAS No.   | MDL | Test Result(s) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                                                                    |           |     | 001            |
| 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 | 5   | 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  | 10  | 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.           |
| 146 | Dihexyl phthalate (DHXP)                                                                                                                                                                                                                                                                                                           | 84-75-3   | 10  | N.D.           |
| 147 | Disodium<br>3,3'-[[1,1'-biphenyl]-4,4'-diylbis<br>(azo)]bis(4-aminonaphthalene-1-sulph<br>onate) (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.           |



| No. | Test Item(s)                                                                                                                                                                                                                                                                         | CAS No.                   | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                      |                           |     | 001            |
| 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                | 10  | 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>ntyphenol (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.           |
| 161 | reaction mass of 2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5<br>-dithia-4-stannatetradecanoate and<br>2-ethylhexyl<br>10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-<br>oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3<br>,5-dithia-4-stannatetradecanoate<br>(reaction mass of DOTE and MOTE) | -                         | 100 | N.D.           |
| 162 | 1,2-benzenedicarboxylic acid,<br>di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed<br>decyl and hexyl and octyl diesters<br>with $\geq 0.3\%$ of dihexyl phthalate<br>(EC No. 201-559-5)                                                                                 | 68515-51-5;<br>68648-93-1 | 100 | N.D.           |



| No. | Test Item(s)                                                                                                                                                                                                                                  | CAS No.                             | MDL | Test Result(s) |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|----------------|
|     |                                                                                                                                                                                                                                               |                                     |     | 001            |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1];<br>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.           |

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.

4. 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) EN 14372:2004 Child use and care articles-Cutlery and feeding utensils-Safety requirements and tests
- 2) US EPA 8061A:1996 Phthalate Esters by Gas Chromatography with Electron Capture Detection (GC/ECD)
- 3) US EPA 3540C:1996 Soxhlet Extraction
- 4) US EPA 3550C:2007 Ultrasonic Extraction
- 5) US EPA 8270D:2007 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
- 6) EN 14362-1:2012 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
- 7) EN 14362-3:2012 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
- 8) US EPA 8260C:2006 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
- 9) US EPA 5021:1996 Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis
- 10) ISO 17075:2007 Leather-Chemical tests-Determination of chromium(VI) content
- 11) US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium
- 12) US EPA 7196A:1992 Chromium, Hexavalent (Colorimetric)
- 13) ISO 3613:2000C Test methods-Metallic and other inorganic coatings-Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys
- 14) US EPA 3050B:1996 Acid Digestion of Sediments, Sludges, and Soils
- 15) US EPA 3051A:2007 Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
- 16) US EPA 3052:1996 Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
- 17) US EPA 6010C:2007 Inductively Coupled Plasma-Atomic Emission Spectrometry
- 18) ASTM D7065:2006 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
- 19) EPA 8321B:2007 Solvent-extractable nonvolatile compounds by high-performance liquid chromatography/thermospray/ mass spectrometry (HPLC/TS/MS) or ultraviolet(UV) detection

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) 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.

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