



**CIRS**

**C&K**  
C&K Testing

# Test Report

**Report No.: TS20121125**



Verify authenticity

**Applicant**

**Bagco Limited**

**Address**

Unit 3, Churchill Court, Hortons Way, Westerham,  
Kent, TN16 1BT UK

**Report Date**

**2020-12-30**

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



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

Add:1/F,No.4 Building, Huaye Hi-Tech Industrial Park, No.1180, Bin'an Road, Binjiang District, Hangzhou 310052, China  
Hotline:4006-721-723 Tel:+86 571-8720 6535 Fax:+86 571-8990 0719 E-mail:test@cirs-group.com Website:www.cirs-ck.com

**CIRS****C&K**  
C&K Testing

Report No.:TS20121125

Date: 2020-12-30

Page 1/15

## Test Report

|                             |                                                                                                                                                                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>            | Bagco Limited                                                                                                                                                                                                                                                                                          |
| <b>Address</b>              | Unit 3, Churchill Court, Hortons Way, Westerham, Kent, TN16 1BT UK                                                                                                                                                                                                                                     |
| <b>Sample Name</b>          | PEMBURY PU                                                                                                                                                                                                                                                                                             |
| <b>Type/ Model</b>          | /                                                                                                                                                                                                                                                                                                      |
| <b>Material/Colour</b>      | /                                                                                                                                                                                                                                                                                                      |
| <b>Other Info.</b>          | /                                                                                                                                                                                                                                                                                                      |
| <b>Sample Received Date</b> | 2020-12-24                                                                                                                                                                                                                                                                                             |
| <b>Test Period</b>          | 2020-12-24~ 2020-12-30                                                                                                                                                                                                                                                                                 |
| <b>Test Requirement</b>     | Two hundred and nine (209) 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 (209 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 209 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).                                                                                                                        |

Prepared by:

*Meng Qi*

Meng Qi

Reviewed by:

*Li Xuefeng*

Li Xuefeng

Accredited

Signatory by:

*Li Changhai*

Li Changhai

Issue date: 2020-12-30

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

Add:1/F,No.4 Building, Huaye Hi-Tech Industrial Park, No.1180, Bin'an Road, Binjiang District, Hangzhou 310052, China  
Hotline:4006-721-723 Tel:+86 571-8720 6535 Fax:+86 571-8990 0719 E-mail:test@cirs-group.com Website:www.cirs-ck.com

Report No.:TS20121125

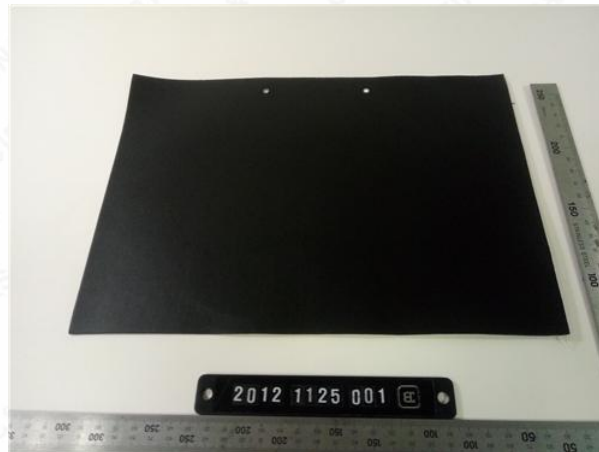
Date: 2020-12-30

Page 2/15

**Test Component(s):**

| No. | Sample Serial No. | Test Component(s) | Type/Model | Material/Colour | Other Info. |
|-----|-------------------|-------------------|------------|-----------------|-------------|
| 001 | TS20121125001     | PEMBURY PU        | /          | /               | /           |

**Photo(s):**



TS20121125001

## 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.           |
| 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   | 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 ( $\beta$ -TGIC) | 59653-74-6 | 100 | N.D.           |
| 79  | 4,4'-bis (dimethylamino) benzophenone (Michler's ketone)                                        | 90-94-8    | 100 | N.D.           |

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



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





| No. | Test Item(s)                                                                                                                                                                                                                                                                                                                       | CAS No.     | MDL | Test Result(s) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                                                                    |             |     | 001            |
| 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.           |
| 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-sulphionate) (C.I. Direct Red 28)                                                                                                                                                                                                                 | 573-58-0    | 100 | N.D.           |



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

| No. | Test Item(s)                                                                                                                                                                                                                                                                                      | CAS No.                              | MDL | Test Result(s) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----|----------------|
|     |                                                                                                                                                                                                                                                                                                   |                                      |     | 001            |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>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];<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.           |
| 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.           |
| 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.           |



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

| No. | Test Item(s)                                                                                                                                                 | CAS No.     | MDL | Test Result(s) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------|
|     |                                                                                                                                                              |             |     | 001            |
| 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.           |
| 198 | 2-methoxyethyl acetate                                                                                                                                       | 110-49-6    | 100 | N.D.           |
| 199 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                                  | --          | 100 | N.D.           |
| 200 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | --          | 100 | N.D.           |
| 201 | 4-tert-butylphenol                                                                                                                                           | 98-54-4     | 100 | N.D.           |
| 202 | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                                           | --          | 100 | N.D.           |
| 203 | Diisohexyl phthate                                                                                                                                           | 71850-09-4  | 100 | N.D.           |
| 204 | 2-methy-1- (4-methylthiophenyl) -2-morpholinobutyropan-1-one                                                                                                 | 71868-10-5  | 100 | N.D.           |
| 205 | 2-benzyl-2-dimethylamine-4'-morpholinobutyrophenone                                                                                                          | 119313-12-1 | 100 | N.D.           |
| 206 | 1-vinylimidazole                                                                                                                                             | 1072-63-5   | 100 | N.D.           |
| 207 | 2-methylimidazole                                                                                                                                            | 693-98-1    | 100 | N.D.           |
| 208 | Dibutylbis (pentane-2,4-dionato-O,O') tin                                                                                                                    | 22673-19-4  | 100 | N.D.           |
| 209 | Butyl 4-hydroxybenzoate (Butylparaben)                                                                                                                       | 94-26-8     | 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 ( $\mu\text{m}$ )

- c) 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

- a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges
- b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres ( $\mu\text{m}$ ).
- c) 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

3. \*\* (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) US EPA 3540C:1996 Soxhlet Extraction
  - 2) US EPA 3550C:2007 Ultrasonic Extraction
  - 3) US EPA 8270E:2018 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 18219:2015 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 71-3:2019 Safety Of Toys - Part 3: Migration Of Certain Elements Annex G: Method of analysis for organic tin
  - 10) AfPS GS 2019:01 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:2018 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, IEC 62321-7-1:2015, IEC 62321-7-2:2017 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 D7065:2017 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 cyanamide, 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, 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:**

- I This report is invalid without the signature of accredited signatory. Any alteration to this report is also invalid.
- II This report is invalid without the special seal of inspection & testing and across-page seal.
- III This report shall not be part copy without written approval of Hangzhou C&K Testing Technic Co., Ltd..
- IV Any commercial activity such as advertising or propaganda is not allowed without authorization of Hangzhou C&K Testing Technic Co., Ltd..
- V The test results shown in this report refer only to the sample submitted by applicant.
- VI Please respond to Hangzhou C&K Testing Technic Co., Ltd. within fifteen working days upon receipt of this report if there is any objection.
- VII Hangzhou C&K Testing Technic Co., Ltd. guarantee that we shall not disclose information such as the commercial information, technical documents or test report to any third party.
- VIII The applicant should undertake the legal responsibility that result from providing untruth information.
- IX This report is only for quality control without the seal of China Metrology Accreditation.

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