



# Test Report

No. F690101/LF-CTSAYAA18-06141

Issued Date: 2018. 01. 30

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## KC CORPORATION

85, Sandanseobu-ro, Samho-eup  
Yeongam-gun, Jeonnam  
Korea



The following sample(s) was/were submitted and identified by/on behalf of the client as:-

**SGS File No.** : AYAA18-06141

**Product Name** : Calcined Alumina(CAS No. 1344-28-1)

**Item/Part Name** : N/A

**Client reference data** : CA-50F, CA-83F, CA-5M, SA-50D, SA-50S

**Received Date** : 2018. 01. 23

**Test Period** : 2018. 01. 23 ~ 2018. 01. 30

**Test Requested** : One hundred-Seventy four (174) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on July 7, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Eight (8) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Sep 5, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.

**Report Comments** : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.

**Test Method** : Please refer to next page(s).

**Test Result(s)** : Please refer to next page(s).

**Summary** : According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the articles of the submitted sample.

SGS Korea Co., Ltd

Jeff Jang / Chemical Lab Mgr

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## Test Method:

SGS In-House method - Analyzed by ICP-OES, PLM, UV/VIS, LC/MS ,GC/MS and colorimetric method

## Remarks:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table> (Candidate list)  
[http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p\\_p\\_id=substancetypelist\\_WAR\\_substanceportlet&p\\_p\\_lifecycle=0&p\\_p\\_state=normal&p\\_p\\_mode=view&p\\_p\\_col\\_id=column-1&p\\_p\\_col\\_pos=2&p\\_p\\_col\\_count=4&substancetypelis](http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p_p_id=substancetypelist_WAR_substanceportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=2&p_p_col_count=4&substancetypelis)  
 (Proposals to identify SVHC consultations)  
 This list is under evaluation by ECHA and may subject to change in the future.
2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of **0.1 %** weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above **0.1 %** weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
4. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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## Test Result(s)

| No. | Substance Name   | CAS number   | EC number           | Reporting Limit (%) | Concentration (%) |
|-----|--|--|---------------------|---------------------|-------------------|
| 1   | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  | 85535-84-8   | 287-476-5           | 0.05                | N.D.              |
| 2   | Anthracene   | 120-12-7   | 204-371-1           | 0.05                | N.D.              |
| 3   | Benzyl butyl phthalate (BBP)   | 85-68-7  | 201-622-7           | 0.05                | N.D.              |
| 4   | Bis(2-ethylhexyl)phthalate (DEHP)  | 117-81-7   | 204-211-0           | 0.05                | N.D.              |
| 5   | Bis(tributyltin)oxide  | 56-35-9  | 200-268-0           | 0.05                | N.D.              |
| 6   | Cobalt dichloride*   | 7646-79-9  | 231-589-4           | 0.005               | N.D.              |
| 7   | 4,4-Diaminodiphenylmethane   | 101-77-9   | 202-974-4           | 0.05                | N.D.              |
| 8   | Diarsenic pentaoxide*  | 1303-28-2  | 215-116-9           | 0.005               | N.D.              |
| 9   | Diarsenic trioxide*  | 1327-53-3  | 215-481-4           | 0.005               | N.D.              |
| 10  | Dibutyl phthalate (DBP)  | 84-74-2  | 201-557-4           | 0.05                | N.D.              |
| 11  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8) | 247-148-4 221-695-9 | 0.05                | N.D.              |
| 12  | Lead hydrogen arsenate*  | 7784-40-9  | 232-064-2           | 0.005               | N.D.              |
| 13  | Sodium dichromate* (Sodium dichromate, dehydrate)  | 10588-01-9 (7789-12-0)                                       | 234-190-3           | 0.005               | N.D.              |
| 14  | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)   | 81-15-2  | 201-329-4           | 0.05                | N.D.              |
| 15  | Triethyl arsenate*   | 15606-95-8   | 427-700-2           | 0.005               | N.D.              |

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| No. | Substance Name   | CAS number                           | EC number              | Reporting Limit (%) | Concentration (%) |
|-----|--|--------------------------------------|------------------------|---------------------|-------------------|
| 16  | Di-isobutyl phthalate(DIBP)                                    | 84-69-5                              | 201-553-2              | 0.05                | N.D.              |
| 17  | 2,4-Dinitrotoluene   | 121-14-2                             | 204-450-0              | 0.05                | N.D.              |
| 18  | Tris(2-chloroethyl) phosphate                                  | 115-96-8                             | 204-118-5              | 0.05                | N.D.              |
| 19  | Anthracene oil   | 90640-80-5                           | 292-602-7              | 0.05                | N.D.              |
| 20  | Anthracene oil,<br>anthracene paste;<br>distn. Lights          | 91995-17-4                           | 295-278-5              | 0.05                | N.D.              |
| 21  | Anthracene oil,<br>anthracene paste,<br>anthracene fraction    | 91995-15-2                           | 295-275-9              | 0.05                | N.D.              |
| 22  | Anthracene oil,<br>anthracene-low                              | 90640-82-7                           | 292-604-8              | 0.05                | N.D.              |
| 23  | Anthracene oil,<br>anthracene paste                            | 90640-81-6                           | 292-603-2              | 0.05                | N.D.              |
| 24  | Coal tar pitch, high temperature                               | 65996-93-2                           | 266-028-2              | 0.05                | N.D.              |
| 25  | Lead sulfochromate yellow (C.I.<br>Pigment Yellow 34)*         | 1344-37-2                            | 215-693-7              | 0.005               | N.D.              |
| 26  | Lead chromate molybdate sulfate red<br>(C.I. Pigment Red 104)* | 12656-85-8                           | 235-759-9              | 0.005               | N.D.              |
| 27  | Lead chromate*   | 7758-97-6                            | 231-846-0              | 0.005               | N.D.              |
| 28  | Acrylamide   | 79-06-01                             | 201-173-7              | 0.05                | N.D.              |
| 29  | Boric acid*  | 10043-35-3<br>11113-50-1             | 233-139-2<br>234-343-4 | 0.005               | N.D.              |
| 30  | Disodium tetraborate, anhydrous*                               | 1330-43-4<br>12179-04-3<br>1303-96-4 | 215-540-4              | 0.005               | N.D.              |
| 31  | Tetraboron disodium heptaoxide,<br>hydrate*                    | 12267-73-1                           | 235-541-3              | 0.005               | N.D.              |

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| No. | Substance Name   | CAS number                   | EC number                   | Reporting Limit (%) | Concentration (%) |
|-----|--|------------------------------|-----------------------------|---------------------|-------------------|
| 32  | Trichloroethylene  | 79-01-6                      | 201-167-4                   | 0.05                | N.D.              |
| 33  | Sodium chromate *  | 7775-11-3                    | 231-889-5                   | 0.005               | N.D.              |
| 34  | Ammonium dichromate*   | 7789-09-5                    | 232-143-1                   | 0.005               | N.D.              |
| 35  | Potassium dichromate*  | 7778-50-9                    | 231-906-6                   | 0.005               | N.D.              |
| 36  | Potassium chromate*  | 7789-00-6                    | 232-140-5                   | 0.005               | N.D.              |
| 37  | Cobalt(II) sulphate*   | 10124-43-3                   | 233-334-2                   | 0.005               | N.D.              |
| 38  | Cobalt(II) dinitrate*  | 10141-05-6                   | 233-402-1                   | 0.005               | N.D.              |
| 39  | Cobalt(II) carbonate*  | 513-79-1                     | 208-169-4                   | 0.005               | N.D.              |
| 40  | Cobalt(II) diacetate*  | 71-48-7                      | 200-755-8                   | 0.005               | N.D.              |
| 41  | 2-Methoxyethanol   | 109-86-4                     | 203-713-7                   | 0.05                | N.D.              |
| 42  | 2-Ethoxyethanol  | 110-80-5                     | 203-804-1                   | 0.05                | N.D.              |
| 43  | Chromium trioxide*   | 1333-82-0                    | 215-607-8                   | 0.005               | N.D.              |
| 44  | Acids generated from chromium trioxide and their oligomers:<br><br>Chromic acid<br>Dichromic acid<br><br>Oligomers of chromic acid and dichromic acid* | 7738-94-5<br>13530-68-2<br>- | 231-801-5<br>236-881-5<br>- | 0.005               | N.D.              |

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|-----|---|-----------------------------|------------|---------------------|-------------------|
| 45  | 1-methyl-2-pyrrolidone  | 872-50-4                    | 212-828-1  | 0.05                | N.D.              |
| 46  | 2-ethoxyethyl acetate   | 111-15-9                    | 203-839-2  | 0.05                | N.D.              |
| 47  | 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich    | 71888-89-6                  | 276-158-1  | 0.05                | N.D.              |
| 48  | 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4                  | 271-084-6  | 0.05                | N.D.              |
| 49  | 1,2,3-trichloropropane  | 96-18-4                     | 202-486-1  | 0.05                | N.D.              |
| 50  | Hydrazine   | 7803-57-8<br>302-01-2       | 206-114-9  | 0.05                | N.D.              |
| 51  | Strontium chromate*   | 7789-06-2                   | 232-142-6  | 0.005               | N.D.              |
| 52  | 1,2-Dichloroethane  | 107-06-2                    | 203-458-1  | 0.05                | N.D.              |
| 53  | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                            | 101-14-4                    | 202-918-9  | 0.05                | N.D.              |
| 54  | 2-Methoxyaniline<br>o-Anisidine   | 90-04-0                     | 201-963-1  | 0.05                | N.D.              |
| 55  | 4-(1,1,3,3-tetramethylbutyl) phenol,<br>(4-tert-Octylphenol)            | 140-66-9                    | 205-426-2  | 0.05                | N.D.              |
| 56  | Aluminosilicate Refractory Ceramic<br>Fibres* (RCF)                     | 650-017-00-8<br>(Index no.) | -          | 0.005               | N.D.              |
| 57  | Arsenic acid*   | 7778-39-4                   | 231-901-9  | 0.005               | N.D.              |
| 58  | Bis(2-methoxyethyl) ether   | 111-96-6                    | 203-924-4  | 0.05                | N.D.              |
| 59  | Bis(2-methoxyethyl) phthalate   | 117-82-8                    | 204-212-6- | 0.05                | N.D.              |
| 60  | Calcium arsenate*   | 7778-44-1                   | 231-904-5  | 0.005               | N.D.              |
| 61  | Dichromium tris(chromate)*  | 24613-89-6                  | 246-356-2  | 0.005               | N.D.              |

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| No. | Substance Name  | CAS number               | EC number | Reporting Limit (%) | Concentration (%) |
|-----|---|--------------------------|-----------|---------------------|-------------------|
| 62  | Formaldehyde, oligomeric reaction products with aniline (technical MDA)                   | 25214-70-4               | 500-036-1 | 0.05                | N.D.              |
| 63  | Lead diazide*   | 13424-46-9               | 236-542-1 | 0.005               | N.D.              |
| 64  | Lead dipicrate*   | 6477-64-1                | 229-335-2 | 0.005               | N.D.              |
| 65  | Lead styphnate*   | 15245-44-0               | 239-290-2 | 0.005               | N.D.              |
| 66  | N,N-dimethylacetamide (DMAC)  | 127-19-5                 | 204-826-4 | 0.05                | N.D.              |
| 67  | Pentazinc chromate octahydroxide*   | 49663-84-5               | 256-418-0 | 0.005               | N.D.              |
| 68  | Phenolphthalein   | 77-09-8                  | 201-004-7 | 0.05                | N.D.              |
| 69  | Potassium hydroxyocta-oxodizincatedichromate*   | 11103-86-9               | 234-329-8 | 0.005               | N.D.              |
| 70  | Trilead diarsenate*   | 3687-31-8                | 222-979-5 | 0.005               | N.D.              |
| 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*                              | 650-017-00-8 (Index no.) | -         | 0.005               | N.D.              |
| 72  | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)  | 112-49-2                 | 203-977-3 | 0.05                | N.D.              |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                               | 110-71-4                 | 203-794-9 | 0.05                | N.D.              |
| 74  | Diboron trioxide*   | 1303-86-2                | 215-125-8 | 0.005               | N.D.              |
| 75  | Formamide   | 75-12-7                  | 200-842-0 | 0.05                | N.D.              |
| 76  | Lead(II) bis(methanesulfonate)*   | 17570-76-2               | 401-750-5 | 0.005               | N.D.              |
| 77  | TGIC(1,3,5-tris (oxiranyl methyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)                  | 2451-62-9                | 219-514-3 | 0.05                | N.D.              |
| 78  | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)** | 59653-74-6               | 423-400-0 | 0.05                | N.D.              |
| 79  | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)                                   | 90-94-8                  | 202-027-5 | 0.05                | N.D.              |

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|-----|---|------------|-----------|---------------------|-------------------|
| 80  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1   | 202-959-2 | 0.05                | 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   | 208-953-6 | 0.05                | 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  | 219-943-6 | 0.05                | N.D.              |
| 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)                               | 6786-83-0  | 229-851-8 | 0.05                | N.D.              |
| 84  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol   | 561-41-1   | 209-218-2 | 0.05                | N.D.              |
| 85  | Bis(pentabromophenyl) ether (DecaBDE)   | 1163-19-5  | 214-604-9 | 0.05                | N.D.              |
| 86  | Pentacosafuorotridecanoic acid  | 72629-94-8 | 276-745-2 | 0.05                | N.D.              |
| 87  | Tricosafuorododecanoic acid   | 307-55-1   | 206-203-2 | 0.05                | N.D.              |
| 88  | Henicosafuoroundecanoic acid  | 2058-94-8  | 218-165-4 | 0.05                | N.D.              |
| 89  | Heptacosafuorotetradecanoic acid  | 376-06-7   | 206-803-4 | 0.05                | N.D.              |
| 90  | 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues          | -          | -         | 0.05                | N.D.              |

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| No. | Substance Name   | CAS number  | EC number   | Reporting Limit (%) | Concentration (%) |
|-----|--|---|---|---------------------|-------------------|
| 91  | 4-Nonylphenol, branched and linear – substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | -   | -   | 0.05                | N.D.              |
| 92  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3  | 204-650-8   | 0.05                | N.D.              |
| 93  | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)  | 85-42-7<br>13149-00-3<br>14166-21-3                     | 201-604-9,<br>236-086-3,<br>238-009-9               | 0.05                | N.D.              |
| 94  | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride  | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | 247-094-1,<br>243-072-0,<br>256-356-4,<br>260-566-1 | 0.05                | N.D.              |
| 95  | Methoxy acetic acid  | 625-45-6  | 210-894-6   | 0.05                | N.D.              |
| 96  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0  | 284-032-2   | 0.05                | N.D.              |
| 97  | Diisopentylphthalate (DIPP)  | 605-50-5  | 210-088-4   | 0.05                | N.D.              |
| 98  | N-pentyl-isopentylphthalate  | -   | -   | 0.05                | N.D.              |
| 99  | 1,2-Diethoxyethane   | 629-14-1  | 211-076-1   | 0.05                | N.D.              |
| 100 | N,N-dimethylformamide; dimethyl formamide  | 68-12-2   | 200-679-5   | 0.05                | N.D.              |

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| No. | Substance Name  | CAS number | EC number | Reporting Limit (%) | Concentration (%) |
|-----|---|------------|-----------|---------------------|-------------------|
| 101 | Dibutyltin dichloride (DBT)                               | 683-18-1   | 211-670-0 | 0.05                | N.D.              |
| 102 | Acetic acid, lead salt, basic*                            | 51404-69-4 | 257-175-3 | 0.005               | N.D.              |
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide)* | 1319-46-6  | 215-290-6 | 0.005               | N.D.              |
| 104 | Lead oxide sulfate (basic lead sulfate)*                  | 12036-76-9 | 234-853-7 | 0.005               | N.D.              |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*     | 69011-06-9 | 273-688-5 | 0.005               | N.D.              |
| 106 | Dioxobis(stearato)trilead*                                | 12578-12-0 | 235-702-8 | 0.005               | N.D.              |
| 107 | Fatty acids, C16-18, lead salts*                          | 91031-62-8 | 292-966-7 | 0.005               | N.D.              |
| 108 | Lead bis(tetrafluoroborate)*                              | 13814-96-5 | 237-486-0 | 0.005               | N.D.              |
| 109 | Lead cyanamidate*   | 20837-86-9 | 244-073-9 | 0.005               | N.D.              |
| 110 | Lead dinitrate*   | 10099-74-8 | 233-245-9 | 0.005               | N.D.              |
| 111 | Lead oxide (lead monoxide)*                               | 1317-36-8  | 215-267-0 | 0.005               | N.D.              |
| 112 | Lead tetroxide (orange lead)*                             | 1314-41-6  | 215-235-6 | 0.005               | N.D.              |
| 113 | Lead titanium trioxide*                                   | 12060-00-3 | 235-038-9 | 0.005               | N.D.              |
| 114 | Lead Titanium Zirconium Oxide*                            | 12626-81-2 | 235-727-4 | 0.005               | N.D.              |
| 115 | Pentalead tetraoxide sulphate*                            | 12065-90-6 | 235-067-7 | 0.005               | N.D.              |

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| No. | Substance Name                                     | CAS number  | EC number | Reporting Limit (%) | Concentration (%) |
|-----|--|-------------|-----------|---------------------|-------------------|
| 116 | Pyrochlore, antimony lead yellow*                  | 8012-00-8   | 232-382-1 | 0.005               | N.D.              |
| 117 | Silicic acid, barium salt, lead-doped*             | 68784-75-8  | 272-271-5 | 0.005               | N.D.              |
| 118 | Silicic acid, lead salt*                           | 11120-22-2  | 234-363-3 | 0.005               | N.D.              |
| 119 | Sulfurous acid, lead salt, dibasic*                | 62229-08-7  | 263-467-1 | 0.005               | N.D.              |
| 120 | Tetraethyllead*                                    | 78-00-2     | 201-075-4 | 0.005               | N.D.              |
| 121 | Tetralead trioxide sulphate*                       | 12202-17-4  | 235-380-9 | 0.005               | N.D.              |
| 122 | Trilead dioxide phosphonate*                       | 12141-20-7  | 235-252-2 | 0.005               | N.D.              |
| 123 | Furan  | 110-00-9    | 203-727-3 | 0.05                | N.D.              |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane   | 75-56-9     | 200-879-2 | 0.05                | N.D.              |
| 125 | Diethyl sulphate                                   | 64-67-5     | 200-589-6 | 0.05                | N.D.              |
| 126 | Dimethyl sulphate                                  | 77-78-1     | 201-058-1 | 0.05                | N.D.              |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | 0.05                | N.D.              |
| 128 | Dinoseb  | 88-85-7     | 201-861-7 | 0.05                | N.D.              |
| 129 | 4,4'-methylenedi-o-toluidine                       | 838-88-0    | 212-658-8 | 0.05                | N.D.              |
| 130 | 4,4'-oxydianiline and its salts                    | 101-80-4    | 202-977-0 | 0.05                | N.D.              |
| 131 | 4-Aminoazobenzene;<br>4-Phenylazoaniline           | 60-09-3     | 200-453-6 | 0.05                | N.D.              |

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| No. | Substance Name  | CAS number | EC number | Reporting Limit (%) | Concentration (%) |
|-----|---|------------|-----------|---------------------|-------------------|
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)   | 95-80-7    | 202-453-1 | 0.05                | N.D.              |
| 133 | 6-methoxy-m-toluidine (p-cresidine)   | 120-71-8   | 204-419-1 | 0.05                | N.D.              |
| 134 | Biphenyl-4-ylamine  | 92-67-1    | 202-177-1 | 0.05                | N.D.              |
| 135 | o-aminoazotoluene   | 97-56-3    | 202-591-2 | 0.05                | N.D.              |
| 136 | o-Toluidine; 2-Aminotoluene   | 95-53-4    | 202-429-0 | 0.05                | N.D.              |
| 137 | N-methylacetamide   | 79-16-3    | 201-182-6 | 0.05                | N.D.              |
| 138 | 1-bromopropane; n-propyl bromide  | 106-94-5   | 203-445-0 | 0.05                | N.D.              |
| 139 | Cadmium   | 7440-43-9  | 231-152-8 | 0.005               | N.D.              |
| 140 | Cadmium oxide*  | 1306-19-0  | 215-146-2 | 0.005               | N.D.              |
| 141 | Dipentyl phthalate (DPP)  | 131-18-0   | 205-017-9 | 0.05                | N.D.              |
| 142 | 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] | -          | -         | 0.05                | N.D.              |
| 143 | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1  | 223-320-4 | 0.05                | N.D.              |
| 144 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1   | 206-397-9 | 0.05                | N.D.              |
| 145 | Dihexyl phthalate   | 84-75-3    | 201-559-5 | 0.05                | N.D.              |
| 146 | Trixylyl phosphate  | 25155-23-1 | 246-677-8 | 0.05                | N.D.              |

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| No. | Substance Name   | CAS number | EC number              | Reporting Limit (%) | Concentration (%) |
|-----|--|------------|------------------------|---------------------|-------------------|
| 147 | Imidazolidine-2-thione;<br>2-imidazoline-2-thiol   | 96-45-7    | 202-506-9              | 0.05                | N.D.              |
| 148 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)   | 1937-37-7  | 217-710-3              | 0.05                | N.D.              |
| 149 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0   | 209-358-4              | 0.05                | N.D.              |
| 150 | Cadmium sulphide*  | 1306-23-6  | 215-147-8              | 0.005               | N.D.              |
| 151 | Lead di(acetate)*  | 301-04-2   | 206-104-4              | 0.005               | N.D.              |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4 | 271-093-5              | 0.05                | N.D.              |
| 153 | Cadmium chloride*  | 10108-64-2 | 233-296-7              | 0.005               | N.D.              |
| 154 | Sodium perborate*;<br>perboric acid, sodium salt*  | -          | 239-172-9<br>234-390-0 | 0.005               | N.D.              |
| 155 | Sodium peroxometaborate*   | 7632-04-4  | 231-556-4              | 0.005               | N.D.              |
| 156 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7  | 223-346-6              | 0.05                | N.D.              |
| 157 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1 | 247-384-8              | 0.05                | N.D.              |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1 | 239-622-4              | 0.05                | N.D.              |
| 159 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | -          | -                      | 0.05                | N.D.              |
| 160 | Cadmium fluoride   | 7790-79-6  | 232-222-0              | 0.005               | N.D.              |

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| No. | Substance Name  | CAS number                          | EC number              | Reporting Limit (%) | Concentration (%) |
|-----|---|-------------------------------------|------------------------|---------------------|-------------------|
| 161 | Cadmium sulphate  | 10124-36-4;<br>31119-53-6           | 233-331-6              | 0.005               | N.D.              |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)   | 68515-51-5<br>68648-93-1            | 271-094-0<br>272-013-1 | 0.05                | N.D.              |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] | -                                   | -                      | 0.05                | N.D.              |
| 164 | 1,3-propanesultone  | 1120-71-4                           | 214-317-9              | 0.05                | N.D.              |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                           | 223-383-8              | 0.05                | N.D.              |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3                          | 253-037-1              | 0.05                | N.D.              |
| 167 | Nitrobenzene  | 98-95-3                             | 202-716-0              | 0.05                | N.D.              |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts   | 375-95-1<br>21049-39-8<br>4149-60-4 | 206-801-3              | 0.05                | N.D.              |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene)   | 50-32-8                             | 200-028-5              | 0.05                | N.D.              |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A)   | 80-05-7                             | 201-245-8              | 0.05                | N.D.              |

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| No. | Substance Name  | CAS number                         | EC number                   | Reporting Limit (%) | Concentration (%) |
|-----|---|------------------------------------|-----------------------------|---------------------|-------------------|
| 171 | 4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | -                                  | -                           | 0.05                | N.D.              |
| 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 3108-42-7<br>335-76-2<br>3830-45-3 | -<br>206-400-3<br>221-470-5 | 0.05                | N.D.              |
| 173 | p-(1,1-dimethylpropyl)phenol  | 80-46-6                            | 201-280-9                   | 0.05                | N.D.              |
| 174 | Perfluorohexane-1-sulphonic acid and its salts  | 355-46-4                           | 206-587-1                   | 0.05                | N.D.              |
| 175 | 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 PlusTM) [covering any of its individual anti- and syn-isomers or any combination thereof]  | -                                  | -                           | 0.05                | N.D.              |
| 176 | Benz[a]anthracene   | 56-55-3                            | 200-280-6                   | 0.05                | N.D.              |
| 177 | Cadmium nitrate   | 10325-94-7                         | 233-710-6                   | 0.005               | N.D.              |
| 178 | Cadmium carbonate   | 513-78-0                           | 208-168-9                   | 0.005               | N.D.              |
| 179 | Cadmium hydroxide   | 21041-95-2                         | 244-168-5                   | 0.005               | N.D.              |
| 180 | Chrysene  | 218-01-9                           | 205-923-4                   | 0.05                | 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]   | -                                  | -                           | 0.05                | N.D.              |
| 182 | Tricobalt tetraoxide containing ≥ 0.1% w/w nickel oxides  | 1308-06-1                          | 215-157-2                   | 0.005               | N.D.              |

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## Note:

1. RL = Reporting Limit, 0.1% (w/w) = 1,000 ppm = 1,000 mg/kg

2. N.D. = Not detected (lower than RL)

N.A. = Not applicable for respective material type.

The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

3. \*.The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: [www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium(VI), silicon, aluminum, zirconium, boron, and potassium respectively), except molybdenum RL=0.0005%

4. \*\*. -TGIC is one of the isomers for TGIC compounds and hence, tested together. The reported test result is based the proposed ratio as according to ECHA dossier.

5. \*\*\*.The sample was diluted with solvent because of matrix effect, so there could be slight increase in MDL and it may have an effect on RL.

Picture of Sample as Received :



AYAA18-06141.001

\*\*\* End of Report \*\*\*

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