

# Test Report

Report No. BCTC1911000481R

Date: Nov. 13, 2019

**Applicant** : Shenzhen Soshine Battery Co., Ltd

**Address** : 7F, Building A, JinKe Industrail Park, Guanlan Town, Longhua District,  
Shenzhen 518110, P.R.China

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**

**Sample name** : 14500 3.7V 800mAh li-ion rechargeable battery with protection

**Type /model** : 14500P-3.7-800

**Trademark** : Soshine

**Manufacturer** : Shenzhen Soshine Battery Co., Ltd

**Address** : 7F, Building A, JinKe Industrail Park, Guanlan Town, Longhua District,  
Shenzhen 518110, P.R.China

**Sample received date** : Nov. 08, 2019

**Testing period** : Nov. 08, 2019 - Nov. 13, 2019

**Test requested** : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two hundred and one(201) Substances of Very High Concern (SVHC) in the submitted sample.

## Summary:

|   |      |
|---|------|
| According to the specified scope and analytical techniques, concentrations of SVHC are less than 0.1%(w/w) in the submitted sample. | PASS |
|---|------|

\*\*\*\*\*For more detailed information, please refer to the next page\*\*\*\*\*

Tested by

*Xingping Li*

Xingping Li



Approved by

*Hanyao Chen*

Hanyao Chen

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**Tested Sample/Part Description:**

Battery mixed

**Report Result(s):**

| Code | Test Item   | CAS No.   | EC No.                  | Report Limit (%) | Report Results (%) |
|------|---|---|-------------------------|------------------|--------------------|
| 1    | Bis(tributyltin)oxide(TBTO)   | 56-35-9   | 200-268-0               | 0.020            | N.D.               |
| 2    | Diarsenic pentaoxide**  | 1303-28-2   | 215-116-9               | 0.005            | N.D.               |
| 3    | Diarsenic trioxide**  | 1327-53-3   | 215-481-4               | 0.005            | N.D.               |
| 4    | Triethyl arsenate**   | 15606-95-8  | 427-700-2               | 0.005            | N.D.               |
| 5    | Lead hydrogen arsenate**  | 7784-40-9   | 232-064-2               | 0.005            | N.D.               |
| 6    | Cobalt dichloride**   | 7646-79-9   | 231-589-4               | 0.005            | N.D.               |
| 7    | Sodium dichromate **  | 7789-12-0/<br>10588-01-9  | 234-190-3               | 0.005            | N.D.               |
| 8    | Anthracene  | 120-12-7  | 204-371-1               | 0.020            | N.D.               |
| 9    | 4,4'-Diaminodiphenylmethane(MDA)  | 101-77-9  | 202-974-4               | 0.020            | N.D.               |
| 10   | Dibutyl phthalate(DBP)  | 84-74-2   | 201-557-4               | 0.020            | N.D.               |
| 11   | Benzyl butyl phthalate(BBP)   | 85-68-7   | 201-622-7               | 0.020            | N.D.               |
| 12   | 5-tert-butyl-2,4,6-trinitro-m-xylene<br>(musk xylene)                         | 81-15-2   | 201-329-4               | 0.020            | N.D.               |
| 13   | Bis (2-ethylhexyl)phthalate(DEHP)   | 117-81-7  | 204-211-0               | 0.020            | N.D.               |
| 14   | Hexabromocyclododecane(HBCDD)<br>and all major diastereoisomers<br>identified | 25637-99-4/<br>3194-55-6<br>(134237-50-6/<br>134237-51-7/<br>134237-52-8) | 247-148-4/<br>221-695-9 | 0.020            | N.D.               |
| 15   | Alkanes, C10-13, chloro<br>(Short Chain Chlorinated Paraffins)                | 85535-84-8  | 287-476-5               | 0.020            | N.D.               |
| 16   | Anthracene oil  | 90640-80-5  | 292-602-7               | 0.020            | N.D.               |

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|------|---|--|-------------------------|------------------|--------------------|
| 17   | Anthracene oil, anthracene paste, distn. lights               | 91995-17-4                             | 295-278-5               | 0.020            | N.D.               |
| 18   | Anthracene oil, anthracene paste, anthracene fraction         | 91995-15-2                             | 295-275-9               | 0.020            | N.D.               |
| 19   | Anthracene oil, anthracene-low                                | 90640-82-7                             | 292-604-8               | 0.020            | N.D.               |
| 20   | Anthracene oil, anthracene paste                              | 90640-81-6                             | 292-603-2               | 0.020            | N.D.               |
| 21   | Pitch, coal tar, high temp.                                   | 65996-93-2                             | 266-028-2               | 0.020            | N.D.               |
| 22   | Acrylamide  | 79-06-1                                | 201-173-7               | 0.020            | N.D.               |
| 23   | 2,4-Dinitrotoluene  | 121-14-2                               | 204-450-0               | 0.020            | N.D.               |
| 24   | Diisobutyl phthalate(DIBP)                                    | 84-69-5                                | 201-553-2               | 0.020            | N.D.               |
| 25   | Lead chromate**   | 7758-97-6                              | 231-846-0               | 0.005            | N.D.               |
| 26   | Lead chromate molybdate sulphate red(C.I. Pigment Red 104) ** | 12656-85-8                             | 235-759-9               | 0.005            | N.D.               |
| 27   | Lead sulfochromate yellow (C.I.Pigment Yellow 34) **          | 1344-37-2                              | 215-693-7               | 0.005            | N.D.               |
| 28   | Tris(2-chloroethyl)phosphate                                  | 115-96-8                               | 204-118-5               | 0.020            | N.D.               |
| 29   | Trichloroethylene   | 79-01-6                                | 201-167-4               | 0.020            | N.D.               |
| 30   | Boric acid**  | 10043-35-3/<br>11113-50-1              | 233-139-2/<br>234-343-4 | 0.005            | N.D.               |
| 31   | Disodium tetraborate, anhydrous**                             | 1330-43-4/<br>12179-04-3/<br>1303-96-4 | 215-540-4               | 0.005            | N.D.               |
| 32   | Tetraboron disodium heptaoxide, hydrate**                     | 12267-73-1                             | 235-541-3               | 0.005            | N.D.               |
| 33   | Sodium chromate**   | 7775-11-3                              | 231-889-5               | 0.005            | N.D.               |
| 34   | Potassium chromate**  | 7789-00-6                              | 232-140-5               | 0.005            | N.D.               |
| 35   | Ammonium dichromate**   | 7789-09-5                              | 232-143-1               | 0.005            | N.D.               |
| 36   | Potassium dichromate**  | 7778-50-9                              | 231-906-6               | 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.               |

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|------|---|--|------------|------------------|--------------------|------|
| 40   | Cobalt(II) diacetate**  | 71-48-7  | 200-755-8  | 0.005            | N.D.               |      |
| 41   | 2-Methoxyethanol  | 109-86-4                                       | 203-713-7  | 0.020            | N.D.               |      |
| 42   | 2-Ethoxyethanol   | 110-80-5                                       | 203-804-1  | 0.020            | N.D.               |      |
| 43   | Chromium trioxide**   | 1333-82-0                                      | 215-607-8  | 0.005            | N.D.               |      |
| 44   | Acids generated from chromium trioxide and their oligomers                      | Chromic acid**                                 | 7738-94-5  | 231-801-5        | 0.005              | N.D. |
|      |   | Dichromic acid**                               | 13530-68-2 | 236-881-5        | 0.005              | N.D. |
|      |   | Oligomers of chromic acid and dichromic acid** | --         | --               | 0.005              | N.D. |
| 45   | 2-Ethoxyethyl acetate   | 111-15-9                                       | 203-839-2  | 0.020            | N.D.               |      |
| 46   | Strontium chromate**  | 7789-06-2                                      | 232-142-6  | 0.005            | N.D.               |      |
| 47   | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)* | 68515-42-4                                     | 271-084-6  | 0.020            | N.D.               |      |
| 48   | Hydrazine   | 7803-57-8/<br>302-01-2                         | 206-114-9  | 0.020            | N.D.               |      |
| 49   | 1-Methyl-2-pyrrolidone  | 872-50-4                                       | 212-828-1  | 0.020            | N.D.               |      |
| 50   | 1,2,3-Trichloropropane  | 96-18-4  | 202-486-1  | 0.020            | N.D.               |      |
| 51   | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)       | 71888-89-6                                     | 276-158-1  | 0.020            | N.D.               |      |
| 52   | Dichromium tris(chromate)**   | 24613-89-6                                     | 246-356-2  | 0.005            | N.D.               |      |
| 53   | Potassium hydroxyoctaoxodizincatedichromate**                                   | 11103-86-9                                     | 234-329-8  | 0.005            | N.D.               |      |
| 54   | Pentazinc chromate octahydroxide**  | 49663-84-5                                     | 256-418-0  | 0.005            | N.D.               |      |
| 55   | Aluminosilicate Refractory Ceramic Fibres(RCF)**                                | --   | --         | 0.005            | N.D.               |      |
| 56   | Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)**                    | --   | --         | 0.005            | N.D.               |      |
| 57   | Formaldehyde, oligomeric reaction products with aniline(technical MDA)          | 25214-70-4                                     | 500-036-1  | 0.020            | N.D.               |      |
| 58   | Bis(2-methoxyethyl) phthalate(DMEP)   | 117-82-8                                       | 204-212-6  | 0.020            | N.D.               |      |

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| 59   | 2-Methoxyaniline; o-Anisidine   | 90-04-0    | 201-963-1 | 0.020            | N.D.               |
| 60   | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                                      | 140-66-9   | 205-426-2 | 0.020            | N.D.               |
| 61   | 1,2-Dichloroethane  | 107-06-2   | 203-458-1 | 0.020            | N.D.               |
| 62   | Bis(2-methoxyethyl) ether   | 111-96-6   | 203-924-4 | 0.020            | N.D.               |
| 63   | Arsenic acid**  | 7778-39-4  | 231-901-9 | 0.005            | N.D.               |
| 64   | Calcium arsenate**  | 7778-44-1  | 231-904-5 | 0.005            | N.D.               |
| 65   | Trilead diarsenate**  | 3687-31-8  | 222-979-5 | 0.005            | N.D.               |
| 66   | N,N-dimethylacetamide(DMAC)   | 127-19-5   | 204-826-4 | 0.020            | N.D.               |
| 67   | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 101-14-4   | 202-918-9 | 0.020            | N.D.               |
| 68   | Phenolphthalein   | 77-09-8    | 201-004-7 | 0.020            | N.D.               |
| 69   | Lead diazide Lead azide **  | 13424-46-9 | 236-542-1 | 0.005            | N.D.               |
| 70   | Lead styphnate**  | 15245-44-0 | 239-290-0 | 0.005            | N.D.               |
| 71   | Lead dipicrate**  | 6477-64-1  | 229-335-2 | 0.005            | N.D.               |
| 72   | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)   | 112-49-2   | 203-977-3 | 0.020            | N.D.               |
| 73   | 1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)                                    | 110-71-4   | 203-794-9 | 0.020            | N.D.               |
| 74   | Diboron trioxide**  | 1303-86-2  | 215-125-8 | 0.005            | N.D.               |
| 75   | Formamide   | 75-12-7    | 200-842-0 | 0.020            | N.D.               |
| 76   | Lead(II)bis(methanesulfonate) **  | 17570-76-2 | 401-750-5 | 0.005            | N.D.               |
| 77   | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine- 2,4,6(1H,3H,5H)-trione)                      | 2451-62-9  | 219-514-3 | 0.020            | N.D.               |
| 78   | $\beta$ -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 | 0.020            | N.D.               |
| 79   | 4,4'-bis(dimethylamino) benzophenone(Michler's ketone)  | 90-94-8    | 202-027-5 | 0.020            | N.D.               |
| 80   | N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)                                 | 101-61-1   | 202-959-2 | 0.020            | N.D.               |



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| 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 | 0.020            | 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 | 0.020            | 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 | 0.020            | N.D.               |
| 84   | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol   | 561-41-1   | 209-218-2 | 0.020            | N.D.               |
| 85   | Bis(pentabromophenyl) ether (DecaBDE)   | 1163-19-5  | 214-604-9 | 0.020            | N.D.               |
| 86   | Pentacosafuorotridecanoic acid  | 72629-94-8 | 276-745-2 | 0.020            | N.D.               |
| 87   | Tricosafuorododecanoic acid   | 307-55-1   | 206-203-2 | 0.020            | N.D.               |
| 88   | Henicosafuoroundecanoic acid  | 2058-94-8  | 218-165-4 | 0.020            | N.D.               |
| 89   | Heptacosafuorotetradecanoic acid  | 376-06-7   | 206-803-4 | 0.020            | N.D.               |
| 90   | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues  | --         | --        | 0.020            | N.D.               |
| 91   | 4-Nonylphenol, branched and linear - substances with a linear and/or branchedalkyl 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 | --         | --        | 0.020            | N.D.               |
| 92   | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3   | 204-650-8 | 0.020            | N.D.               |

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|------|---|---|---|------------------|--------------------|
| 93   | Cyclohexane-1,2-dicarboxylic anhydride<br>(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                 | 0.020            | N.D.               |
| 94   | Hexahydromethylphthalic anhy,<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 | 247-094-1,<br>243-072-0,<br>256-356-4,<br>260-566-1 | 0.020            | N.D.               |
| 95   | Methoxy acetic acid   | 625-45-6  | 210-894-6   | 0.020            | N.D.               |
| 96   | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | 284-032-2   | 0.020            | N.D.               |
| 97   | Diisopentylphthalate(DIPP)  | 605-50-5  | 210-088-4   | 0.020            | N.D.               |
| 98   | N-pentyl-isopentylphthalate   | 776297-69-9   | --  | 0.020            | N.D.               |
| 99   | 1,2-Diethoxyethane  | 629-14-1  | 211-076-1   | 0.020            | N.D.               |
| 100  | N,N-dimethylformamide; dimethyl formamide   | 68-12-2   | 200-679-5   | 0.020            | N.D.               |
| 101  | Dibutyltin dichloride(DBTC)   | 683-18-1  | 211-670-0   | 0.005            | 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 cyanamide**  | 20837-86-9  | 244-073-9   | 0.005            | N.D.               |
| 110  | Lead dinitrate**  | 10099-74-8  | 233-245-9   | 0.005            | N.D.               |

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| 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.               |
| 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 | 0.020            | N.D.               |
| 124  | Propylene oxide; 1,2-epoxypropane; methyloxirane     | 75-56-9     | 200-879-2 | 0.020            | N.D.               |
| 125  | Diethyl sulphate                                     | 64-67-5     | 200-589-6 | 0.020            | N.D.               |
| 126  | Dimethyl sulphate                                    | 77-78-1     | 201-058-1 | 0.020            | N.D.               |
| 127  | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2 | 421-150-7 | 0.020            | N.D.               |
| 128  | Dinoseb  | 88-85-7     | 201-861-7 | 0.020            | N.D.               |
| 129  | 4,4'-methylenedi-o-toluidine                         | 838-88-0    | 212-658-8 | 0.020            | N.D.               |
| 130  | 4,4'-oxydianiline and its salts                      | 101-80-4    | 202-977-0 | 0.020            | N.D.               |
| 131  | 4-Aminoazobenzene;<br>4-Phenylazoaniline             | 60-09-3     | 200-453-6 | 0.020            | N.D.               |
| 132  | 4-methyl-m-phenylenediamine<br>(2,4-toluene-diamine) | 95-80-7     | 202-453-1 | 0.020            | N.D.               |
| 133  | 6-methoxy-m-toluidine(p-cresidine)                   | 120-71-8    | 204-419-1 | 0.020            | N.D.               |
| 134  | Biphenyl-4-ylamine                                   | 92-67-1     | 202-177-1 | 0.020            | N.D.               |
| 135  | o-aminoazotoluene                                    | 97-56-3     | 202-591-2 | 0.020            | N.D.               |
| 136  | o-Toluidine; 2-Aminotoluene                          | 95-53-4     | 202-429-0 | 0.020            | N.D.               |



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| 137  | N-methylacetamide   | 79-16-3                   | 201-182-6               | 0.020            | N.D.               |
| 138  | 1-bromopropane; n-propyl bromide  | 106-94-5                  | 203-445-0               | 0.020            | 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               | 0.020            | 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] | --                        | --                      | 0.020            | N.D.               |
| 143  | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1                 | 223-320-4               | 0.020            | N.D.               |
| 144  | Pentadecafluorooctanoic acid(PFOA)  | 335-67-1                  | 206-397-9               | 0.020            | N.D.               |
| 145  | Cadmium sulphide**  | 1306-23-6                 | 215-147-8               | 0.005            | N.D.               |
| 146  | Dihexyl phthalate   | 84-75-3                   | 201-559-5               | 0.020            | N.D.               |
| 147  | C.I. Direct Red 28  | 573-58-0                  | 209-358-4               | 0.020            | N.D.               |
| 148  | C.I. Direct Black 38  | 1937-37-7                 | 217-710-3               | 0.020            | N.D.               |
| 149  | 2-imidazoline-2-thiol   | 96-45-7                   | 202-506-9               | 0.020            | N.D.               |
| 150  | Lead di(acetate)**  | 301-04-2                  | 206-104-4               | 0.005            | N.D.               |
| 151  | Trixylyl phosphate  | 25155-23-1                | 246-677-8               | 0.020            | N.D.               |
| 152  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4                | 271-093-5               | 0.020            | N.D.               |
| 153  | Cadmium chloride**  | 10108-64-2                | 233-296-7               | 0.005            | N.D.               |
| 154  | Sodium perborate; 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  | Cadmium fluoride**  | 7790-79-6                 | 232-222-0               | 0.005            | N.D.               |
| 157  | Cadmium sulphate**  | 10124-36-4/<br>31119-53-6 | 233-331-6               | 0.005            | N.D.               |

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Date: Nov. 13, 2019

| Code | Test Item  | CAS No.                       | EC No.              | Report Limit (%) | Report Results (%) |
|------|--|-------------------------------|---------------------|------------------|--------------------|
| 158  | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV-320)  | 3846-71-7                     | 223-346-6           | 0.020            | N.D.               |
| 159  | 2-(2H-benzotriazol-2-yl)-4,6-ditertbutylphenol(UV-328)   | 25973-55-1                    | 247-284-8           | 0.020            | N.D.               |
| 160  | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                    | 239-622-4           | 0.020            | N.D.               |
| 161  | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | --                            | --                  | 0.020            | N.D.               |
| 162  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters  | 68515-51-5, 68648-93-1        | 271-094-0 272-013-1 | 0.020            | 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]                          | --                            | --                  | 0.020            | N.D.               |
| 164  | Nitrobenzene   | 98-95-3                       | 202-716-0           | 0.020            | N.D.               |
| 165  | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)  | 3864-99-1                     | 223-383-8           | 0.020            | N.D.               |
| 166  | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)  | 36437-37-3                    | 253-037-1           | 0.020            | N.D.               |
| 167  | 1,3-propanesultone   | 1120-71-4                     | 214-317-9           | 0.020            | N.D.               |
| 168  | Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 375-95-1 21049-39-8 4149-60-4 | 206-801-3           | 0.020            | N.D.               |
| 169  | Benzo[def]chrysene(Benzo[a]pyrene)   | 50-32-8                       | 200-028-5           | 0.020            | N.D.               |

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Date: Nov. 13, 2019

| Code | Test Item  | CAS No.                                  | EC No.                       | Report Limit (%) | Report Results (%) |
|------|--|--|------------------------------|------------------|--------------------|
| 170  | 4,4'-isopropylidenediphenol (Bisphenol A; BPA)   | 80-05-7                                  | 201-245-8                    | 0.010            | N.D.               |
| 171  | Nonadecafluorodecanoic acid(PFDA) and its sodium and ammonium salts  | 3108-42-7<br>335-76-2<br>3830-45-3       | 221-470-5<br>206-400-3<br>-- | 0.010            | N.D.               |
| 172  | p-(1,1-Dimethylpropyl)phenol   | 80-46-6                                  | 201-280-9                    | 0.010            | N.D.               |
| 173  | 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 substance which include any of the individual isomers or a combination thereof] | --                                       | --                           | 0.050            | N.D.               |
| 174  | Perfluorohexyl sulfonic acid and its salts (PFHxS)   | 355-46-4                                 | 206-587-1                    | 0.050            | N.D.               |
| 175  | Dron [including all trans and cis isomers and combinations thereof]  | 13560-89-9<br>135821-74-8<br>135821-03-3 | --                           | 0.020            | N.D.               |
| 176  | Benzo (a) anthracene   | 56-55-3                                  | 200-280-6                    | 0.020            | 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                    | 0.020            | N.D.               |
| 181  | 1,3,4-thiadiazolidine-2,5-dithione, the reaction products of branched and linear (RP-HP) of formaldehyde and 4-heptylphenol [4 + A2: G21-heptylphenol, Branched and linear content $\geq 0.1\%$ w / w]   | --                                       | --                           | 0.020            | N.D.               |
| 182  | 1,2,4-Benzenetricarboxylic anhydride (Trimellitic anhydride, TMA)  | 552-30-7                                 | 209-008-0                    | 0.020            | N.D.               |
| 183  | Dicyclohexyl phthalate (DCHP)  | 84-61-7                                  | 201-545-9                    | 0.020            | N.D.               |

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Date: Nov. 13, 2019

| Code | Test Item  | CAS No.    | EC No.    | Report Limit (%) | Report Results (%) |
|------|--|------------|-----------|------------------|--------------------|
| 184  | Octamethylcyclotetrasiloxane(D4)   | 556-67-2   | 209-136-7 | 0.020            | N.D.               |
| 185  | Decamethylcyclopentasiloxane(D5)   | 541-02-6   | 208-764-9 | 0.020            | N.D.               |
| 186  | Dodecamethylcyclohexasiloxane(D6)  | 540-97-6   | 208-762-8 | 0.020            | N.D.               |
| 187  | Lead**   | 7439-92-1  | 231-100-4 | 0.005            | N.D.               |
| 188  | Disodium octaborate**  | 12008-41-2 | 234-541-0 | 0.005            | N.D.               |
| 189  | Benzo[g,h,i]perylene   | 191-24-2   | 205-883-8 | 0.020            | N.D.               |
| 190  | Terphenyl hydrogenated   | 61788-32-7 | 262-967-7 | 0.020            | N.D.               |
| 191  | Ethylenediamine(EDA)   | 107-15-3   | 203-468-6 | 0.020            | N.D.               |
| 192  | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 6807-17-6  | 401-720-1 | 0.020            | N.D.               |
| 193  | Benzo[k]fluoranthene   | 207-08-9   | 205-916-6 | 0.020            | N.D.               |
| 194  | Fluoranthene   | 206-44-0   | 205-912-4 | 0.020            | N.D.               |
| 195  | Phenanthrene   | 85-01-8    | 201-581-5 | 0.020            | N.D.               |
| 196  | Pyrene   | 129-00-0   | 204-927-3 | 0.020            | N.D.               |
| 197  | 1,7,7-trimethyl-3-(phenylmethylene)-bicyclo-[2.2.1]heptan-2-one  | 15087-24-8 | 239-139-9 | 0.020            | N.D.               |
| 198  | 2-methoxyethyl acetate   | 110-49-6   | 203-772-9 | 0.020            | 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)                                 | --         | --        | 0.020            | 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) | --         | --        | 0.020            | N.D.               |
| 201  | 4-tert-butylphenols  | 98-54-4    | 202-679-0 | 0.020            | N.D.               |

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## Note:

1. mg/kg = ppm =  $10^{-6}$
2. % = w/w
3. N.D. :< Report Limit
4. \*The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
5. \*\* According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. The results of this report are the results of the mixed test of the whole sample.

## Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
  - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
  - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.



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2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures or  $\geq 0.2\%$  by volume for gaseous mixtures.

## Photograph of Sample



# Test Report

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## STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without stamp of laboratory.
4. The test report is invalid without signature of person(s) testing and authorizing.
5. The test process and test result is only related to the Unit Under Test.
6. The quality system of our laboratory is in accordance with ISO/IEC17025.
7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address: BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road,  
Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China

P.C.: 518103

TEL: 400-788-9558

FAX: 0755-33229357

Internet: <http://www.bctc-lab.com>

E-Mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

\*\*\*\*\* END OF REPORT \*\*\*\*\*