



WTH21H09103274X1C-2

# Test Report

**Report No.:** WTH21H09103274X1C-2

**Date:** Oct. 25, 2021

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**Applicant:** Sharkoon Technologies GmbH  
**Address:** Grüninger Weg 48, 35415 Pohlheim, Germany

**Sample Information:**

**Sample Name:** Sharkoon SKILLER SGH50  
**Sample Model:** SKILLER SGH50  
**Buyer:** Sharkoon Technologies GmbH  
**Sample Received Date:** Sep. 27, 2021  
**Testing Period:** Sep. 27, 2021 - Oct. 11, 2021

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

| Test Requested:  | Conclusion |
|--|------------|
| 1. As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen Two hundred and nineteen (219) Substances of Very High Concern (SVHC) in the sample. The list is the one that is published by European Chemicals Administration (ECHA) on July 8, 2021. | PASS       |
| 2. As specified by client, refer to G/TBT/N/EU/803, to screen the Resorcinol content in the sample.  | PASS       |

Remark: Pass means each result of 219 SVHC and Resorcinol is less than 0.1%.

Signed for and on behalf of HCT

Kathy Liu



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## (SVHC)

### Tested Method:

HCT In-house method HCT/SZ-SOP-WJ-PI034, HCT/SZ-SOP-YJ-PI053;

Analysis was performed by ICP-OES/GC-MS (HS)/HPLC-DAD-MS/ IC/AAS/UV-VIS.

### Test Result(s):

| Test Item(s) | RL(%)  | Result(s)(%) |
|--------------|--------|--------------|
|              |        | 1*           |
| 219 SVHC     | /      | N.D.         |
| Resorcinol   | 0.0100 | N.D.         |

| Test Item(s) |     |   | CAS No.  | EC No.    | RL(%)  | Result(s)(%) |
|--------------|-----|---|----------|-----------|--------|--------------|
| /            | No. | /   |          |           |        | 2*           |
| 219 SVHC     | 100 | N,N-dimethylformamide; dimethyl formamide | 68-12-2  | 200-679-5 | 0.0100 | 0.0165       |
| /            | /   | Other 218 SVHC                            | /        | /         | /      | N.D.         |
| Resorcinol   |     |   | 108-46-3 | 203-585-2 | 0.0100 | N.D.         |

### Note:

0.1%=1000mg/kg

mg/kg (milligram per kilogram) = ppm (parts per million)

N.D.= Not Detected (<Reporting Limit)

RL=Reporting Limit (See List of tested SVHC)

\*=The results of boron compounds in SVHC candidate list were converted from the test result of water extraction content of Boron.

As specified by client, the samples were mass ratio mixed to test and the test results are calculated based on the total sample quality. The result(s) shown on this report may be different from the content of any homogeneous material.

As specified by client, only test the designated sample.

This report replaces the report which report No. is WTH21H09103274C-2.

Substances in candidate list of SVHC please refer to following page(s).

### Remarks:

- As the Result of above substance that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of the substance in the sample.
- The reporting limit is evaluated based on the representative substances.



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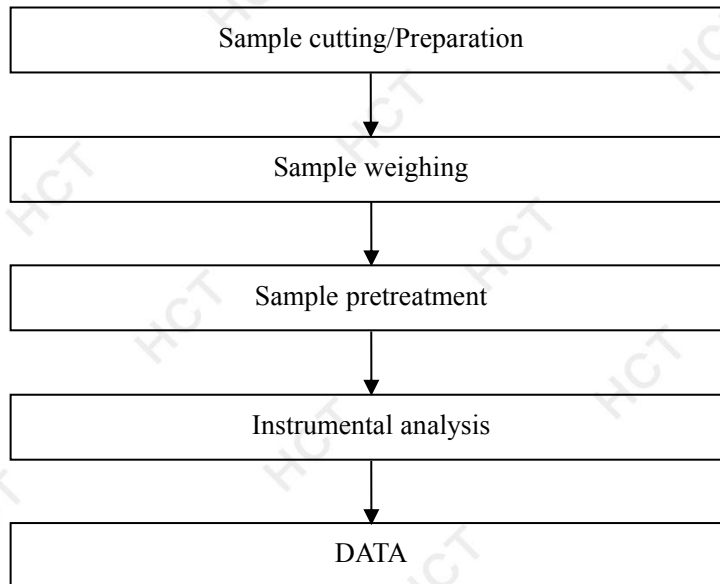
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**Sample Description:**

| No. | HCT Sample ID     | Test Part Description |             |
|-----|-------------------|-----------------------|-------------|
| 1   | WTH21H09103274C.1 | 1                     | Non-metal 1 |
| 2   |                   | 2                     | Non-metal 2 |

**Test Flow Chart**



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## The photo of the sample



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**Full list of tested SVHC:**

The first 15 SVHC(Announced in October, 2008)

Unit: %

| No. | Substance Name(s)   | CAS No.   | EC No.                  | RL     |
|-----|---|---|-------------------------|--------|
| 1   | Anthracene  | 120-12-7  | 204-371-1               | 0.0050 |
| 2   | 4,4'-Diaminodiphenylmethane   | 101-77-9  | 202-974-4               | 0.0050 |
| 3   | Dibutyl phthalate(DBP)  | 84-74-2   | 201-557-4               | 0.0050 |
| 4   | Di-(2-ethylhexyl)phthalate(DEHP)  | 117-81-7  | 204-211-0               | 0.0050 |
| 5   | Benzyl butyl phthalate(BBP)   | 85-68-7   | 201-622-7               | 0.0050 |
| 6   | Bis(tributyltin)oxide(TBTO)   | 56-35-9   | 200-268-0               | 0.0050 |
| 7   | 5-tert-butyl-2,4,6-trinitro-m-xylene<br>(musk xylene)   | 81-15-2   | 201-329-4               | 0.0050 |
| 8   | Hexabromocyclododecane and all major diastereoisomers identified:( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)(HBCDD) | 25637-99-4,<br>3194-55-6<br>(134237-51-7,<br>134237-50-6,<br>134237-52-8) | 247-148-4/<br>221-695-9 | 0.0050 |
| 9   | Short Chain Chlorinated Paraffins(SCCPs)  | 85535-84-8  | 287-476-5               | 0.0100 |
| 10  | Lead hydrogen arsenate*   | 7784-40-9   | 232-064-2               | 0.0500 |
| 11  | Triethyl arsenate*  | 15606-95-8  | 427-700-2               | 0.0500 |
| 12  | Diarsenic pentaoxide*   | 1303-28-2   | 215-116-9               | 0.0500 |
| 13  | Diarsenic trioxide*   | 1327-53-3   | 215-481-4               | 0.0500 |
| 14  | Cobalt dichloride*  | 7646-79-9   | 231-589-4               | 0.0500 |
| 15  | Sodium dichromate*  | 7789-12-0,<br>10588-01-9  | 234-190-3               | 0.0500 |





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The second 13 SVHC(Announced in January and March, 2010)

Unit: %

| No. | Substance Name(s)  | CAS No.    | EC No.    | RL     |
|-----|--|------------|-----------|--------|
| 16  | <sup>①</sup> Anthracene oil  | 90640-80-5 | 292-602-7 | 0.0500 |
| 17  | <sup>①</sup> Anthracene oil, anthracene paste, distn. Lights****             | 91995-17-4 | 295-278-5 | 0.0500 |
| 18  | <sup>①</sup> Anthracene oil, anthracene paste, anthracene fraction           | 91995-15-2 | 295-275-9 | 0.0500 |
| 19  | <sup>①</sup> Anthracene oil, anthracene-low                                  | 90640-82-7 | 292-604-8 | 0.0500 |
| 20  | <sup>①</sup> Anthracene oil, anthracene paste                                | 90640-81-6 | 292-603-2 | 0.0500 |
| 21  | Diisobutyl phthalate(DIBP)   | 84-69-5    | 201-553-2 | 0.0050 |
| 22  | 2,4-Dinitrotoluene   | 121-14-2   | 204-450-0 | 0.0100 |
| 23  | <sup>②</sup> Lead chromate   | 7758-97-6  | 231-846-0 | 0.0500 |
| 24  | <sup>②</sup> Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *** | 12656-85-8 | 235-759-9 | 0.0500 |
| 25  | <sup>②</sup> Lead sulfochromate yellow(C.I. Pigment Yellow 34)***            | 1344-37-2  | 215-693-7 | 0.0500 |
| 26  | <sup>①</sup> Pitch, coal tar, high temperature                               | 65996-93-2 | 266-028-2 | 0.0500 |
| 27  | Tris(2-chloroethyl)phosphate(TCEP)   | 115-96-8   | 204-118-5 | 0.0100 |
| 28  | Acrylamide   | 79-06-1    | 201-173-7 | 0.0100 |

The third 8 SVHC(Announced in June, 2010)

Unit: %

| No. | Substance Name(s)                        | CAS No.                              | EC No.                 | RL     |
|-----|--|--------------------------------------|------------------------|--------|
| 29  | Trichloroethylene                        | 79-01-6                              | 201-167-4              | 0.0100 |
| 30  | Boric acid*                              | 10043-35-3/<br>11113-50-1            | 233-139-2<br>234-343-4 | 0.0500 |
| 31  | Disodium tetraborate, anhydrous*         | 1330-43-4<br>12179-04-3<br>1303-96-4 | 215-540-4              | 0.0500 |
| 32  | Tetraboron disodium heptaoxide, hydrate* | 12267-73-1                           | 235-541-3              | 0.0500 |
| 33  | Sodium chromate*                         | 7775-11-3                            | 231-889-5              | 0.0500 |
| 34  | Potassium chromate*                      | 7789-00-6                            | 232-140-5              | 0.0500 |
| 35  | Ammonium dichromate*                     | 7789-09-5                            | 232-143-1              | 0.0500 |
| 36  | Potassium dichromate*                    | 7778-50-9                            | 231-906-6              | 0.0500 |



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The fourth 8 SVHC(Announced in December,2010)

Unit: %

| No. | Substance Name(s)   | CAS No.                 | EC No.                 | RL     |
|-----|---|-------------------------|------------------------|--------|
| 37  | Chromium trioxide*  | 1333-82-0               | 215-607-8              | 0.0500 |
| 38  | 2-Methoxyethanol  | 109-86-4                | 203-713-7              | 0.0500 |
| 39  | 2-Ethoxyethanol   | 110-80-5                | 203-804-1              | 0.0500 |
| 40  | Cobalt(II) diacetate*   | 71-48-7                 | 200-755-8              | 0.0500 |
| 41  | Cobalt(II) carbonate*   | 513-79-1                | 208-169-4              | 0.0500 |
| 42  | Cobalt(II) dinitrate*   | 10141-05-6              | 233-402-1              | 0.0500 |
| 43  | Cobalt(II) sulphate*  | 10124-43-3              | 233-334-2              | 0.0500 |
| 44  | Acids generated from chromium trioxide* and their oligomers:<br>Chromic acid,<br>Dichromic acid<br>Oligomers of chromic acid and dichromic acid | 7738-94-5<br>13530-68-2 | 231-801-5<br>236-881-5 | 0.0500 |

The fifth 7 SVHC(Announced in June, 2011)

Unit: %

| No. | Substance Name(s)   | CAS No.               | EC No.    | RL     |
|-----|---|-----------------------|-----------|--------|
| 45  | (2-EEA)2-ethoxyethyl acetate  | 111-15-9              | 203-839-2 | 0.0100 |
| 46  | strontium chromate*   | 7789-06-2             | 232-142-6 | 0.0500 |
| 47  | ①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP) | 68515-42-4            | 271-084-6 | 0.0500 |
| 48  | Hydrazine   | 7803-57-8<br>302-01-2 | 206-114-9 | 0.0100 |
| 49  | 1-methyl-2-pyrrolidone  | 872-50-4              | 212-828-1 | 0.0100 |
| 50  | 1,2,3-trichloropropane  | 96-18-4               | 202-486-1 | 0.0100 |
| 51  | ①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)     | 71888-89-6            | 276-158-1 | 0.0500 |



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The sixth 20 SVHC(Announced in December, 2011)

Unit: %

| No. | Substance Name(s)   | CAS No.    | EC No.         | RL     |
|-----|---|------------|----------------|--------|
| 52  | Aluminosilicate, Refractory Ceramic Fibres                              | —          | 650-017-00-8** | 0.0500 |
| 53  | Zirconia Aluminosilicate, Refractory Ceramic Fibres                     | —          | 650-017-00-8** | 0.0500 |
| 54  | Dichromium tris(chromate) *   | 24613-89-6 | 246-356-2      | 0.0500 |
| 55  | Potassium hydroxyoctaoxodizincate di-chromate*                          | 11103-86-9 | 234-329-8      | 0.0500 |
| 56  | Pentazinc chromate octahydroxide (C.I. pigment yellow 36)***            | 49663-84-5 | 256-418-0      | 0.0500 |
| 57  | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1      | 0.0500 |
| 58  | Bis(2-methoxyethyl) phthalate (DMEP)                                    | 117-82-8   | 204-212-6      | 0.0050 |
| 59  | 2-Methoxyaniline; o-Anisidine   | 90-04-0    | 201-963-1      | 0.0100 |
| 60  | 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol)                 | 140-66-9   | 205-426-2      | 0.0100 |
| 61  | 1,2-Dichloroethane  | 107-06-2   | 203-458-1      | 0.0100 |
| 62  | Bis(2-methoxyethyl) ether   | 111-96-6   | 203-924-4      | 0.0100 |
| 63  | Arsenic acid*   | 7778-39-4  | 231-901-9      | 0.0500 |
| 64  | Calcium arsenate*   | 7778-44-1  | 231-904-5      | 0.0500 |
| 65  | Trilead diarsenate*   | 3687-31-8  | 222-979-5      | 0.0500 |
| 66  | N,N-dimethylacetamide (DMAC)  | 127-19-5   | 204-826-4      | 0.0100 |
| 67  | Phenolphthalein   | 77-09-8    | 201-004-7      | 0.0500 |
| 68  | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                            | 101-14-4   | 202-918-9      | 0.0100 |
| 69  | Lead azide; Lead diazide*   | 13424-46-9 | 236-542-1      | 0.0500 |
| 70  | Lead styphnate*   | 15245-44-0 | 239-290-0      | 0.0500 |
| 71  | Lead dipicrate*   | 6477-64-1  | 229-335-2      | 0.0500 |





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The seventh 13 SVHC (Announced in June, 2012)

Unit: %

| No. | Substance Name(s)  | CAS No.    | EC No.    | RL     |
|-----|--|------------|-----------|--------|
| 72  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2   | 203-977-3 | 0.0100 |
| 73  | 1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4   | 203-794-9 | 0.0100 |
| 74  | Diboron trioxide*  | 1303-86-2  | 215-125-8 | 0.0500 |
| 75  | Formamide  | 75-12-7    | 200-842-0 | 0.0500 |
| 76  | Lead(II)bis(methanesulfonate)*   | 17570-76-2 | 401-750-5 | 0.0500 |
| 77  | TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)  | 2451-62-9  | 219-514-3 | 0.0500 |
| 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 | 0.0500 |
| 79  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 90-94-8    | 202-027-5 | 0.0100 |
| 80  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1   | 202-959-2 | 0.0100 |
| 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 | 0.0500 |
| 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 | 0.0500 |
| 83  | $\alpha, \alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                | 6786-83-0  | 229-851-8 | 0.0500 |
| 84  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1   | 209-218-2 | 0.0100 |



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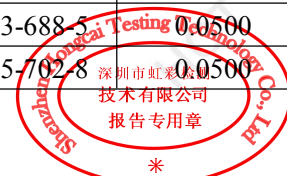
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The eighth 54 SVHC(Announced in December, 2012)

Unit: %

| No. | Substance Name(s)   | CAS No.   | EC No.  | RL     |
|-----|---|---|---|--------|
| 85  | Bis(pentabromophenyl) ether<br>(decabromodiphenyl ether) (DecaBDE)  | 1163-19-5   | 214-604-9   | 0.0050 |
| 86  | Pentacosafluorotridecanoic acid   | 72629-94-8  | 276-745-2   | 0.0100 |
| 87  | Tricosfluorododecanoic acid   | 307-55-1  | 206-203-2   | 0.0100 |
| 88  | Henicosfluoroundecanoic acid  | 2058-94-8   | 218-165-4   | 0.0100 |
| 89  | Heptacosfluorotetradecanoic acid  | 376-06-7  | 206-803-4   | 0.0100 |
| 90  | ①4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues   | —   | —   | 0.0100 |
| 91  | ①4-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 | —   | —   | 0.0100 |
| 92  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3  | 204-650-8   | 0.0100 |
| 93  | Cyclohexane-1,2-dicarboxylic anhydride,<br>trans-cyclohexane-1,2-dicarboxylic anhydride,<br>cis-cyclohexane-1,2-dicarboxylic anhydride  | 85-42-7,<br>14166-21-3,<br>13149-00-3                   | 201-604-9,<br>238-009-9,<br>236-086-3               | 0.0100 |
| 94  | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic<br>anhydride,Hexahydro-1-methylphthalic<br>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 | 0.0100 |
| 95  | Methoxy acetic acid   | 625-45-6  | 210-894-6   | 0.0100 |
| 96  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | 284-032-2   | 0.0100 |
| 97  | Diisopentylphthalate (DIPP)   | 605-50-5  | 210-088-4   | 0.0100 |
| 98  | N-pentyl-isopentylphthalate   | 776297-69-9   | —   | 0.0100 |
| 99  | 1,2-Diethoxyethane  | 629-14-1  | 211-076-1   | 0.0100 |
| 100 | N,N-dimethylformamide; dimethyl formamide   | 68-12-2   | 200-679-5   | 0.0100 |
| 101 | Dibutyltin dichloride (DBT)   | 683-18-1  | 211-670-0   | 0.0100 |
| 102 | Acetic acid, lead salt, basic*  | 51404-69-4  | 257-175-3   | 0.0500 |
| 103 | Basic lead carbonate (trileadbis(carbonate)dihydroxide)*  | 1319-46-6   | 215-290-6   | 0.0500 |
| 104 | Lead oxide sulfate (basic lead sulfate)*  | 12036-76-9  | 234-853-7   | 0.0500 |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*   | 69011-06-9  | 273-688-5   | 0.0500 |
| 106 | Dioxobis(stearato)trilead*  | 12578-12-0  | 235-702-8   | 0.0500 |



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| No. | Substance Name(s)                                  | CAS No.     | EC No.    | RL     |
|-----|--|-------------|-----------|--------|
| 107 | Fatty acids, C16-18, lead salts*                   | 91031-62-8  | 292-966-7 | 0.0500 |
| 108 | Lead bis(tetrafluoroborate)*                       | 13814-96-5  | 237-486-0 | 0.0500 |
| 109 | Lead cyanamidate*                                  | 20837-86-9  | 244-073-9 | 0.0500 |
| 110 | Lead dinitrate*                                    | 10099-74-8  | 233-245-9 | 0.0500 |
| 111 | Lead oxide (lead monoxide)*                        | 1317-36-8   | 215-267-0 | 0.0500 |
| 112 | Lead tetroxide (orange lead)*                      | 1314-41-6   | 215-235-6 | 0.0500 |
| 113 | Lead titanium trioxide*                            | 12060-00-3  | 235-038-9 | 0.0500 |
| 114 | Lead Titanium Zirconium Oxide*                     | 12626-81-2  | 235-727-4 | 0.0500 |
| 115 | Pentalead tetraoxide sulphate*                     | 12065-90-6  | 235-067-7 | 0.0500 |
| 116 | Pyrochlore, antimony lead yellow C.I.***           | 8012-00-8   | 232-382-1 | 0.0500 |
| 117 | Silicic acid, barium salt, lead-doped*             | 68784-75-8  | 272-271-5 | 0.0500 |
| 118 | Silicic acid, lead salt*                           | 11120-22-2  | 234-363-3 | 0.0500 |
| 119 | Sulfurous acid, lead salt, dibasic*                | 62229-08-7  | 263-467-1 | 0.0500 |
| 120 | Tetraethyllead*                                    | 78-00-2     | 201-075-4 | 0.0500 |
| 121 | Tetralead trioxide sulphate*                       | 12202-17-4  | 235-380-9 | 0.0500 |
| 122 | Trilead dioxide phosphonate*                       | 12141-20-7  | 235-252-2 | 0.0500 |
| 123 | Furan  | 110-00-9    | 203-727-3 | 0.0100 |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane   | 75-56-9     | 200-879-2 | 0.0100 |
| 125 | Diethyl sulphate                                   | 64-67-5     | 200-589-6 | 0.0100 |
| 126 | Dimethyl sulphate                                  | 77-78-1     | 201-058-1 | 0.0100 |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | 0.0100 |
| 128 | Dinoseb  | 88-85-7     | 201-861-7 | 0.0100 |
| 129 | 4,4'-methylenedi-o-toluidine                       | 838-88-0    | 212-658-8 | 0.0100 |
| 130 | 4,4'-oxydianiline and its salts                    | 101-80-4    | 202-977-0 | 0.0100 |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline              | 60-09-3     | 200-453-6 | 0.0100 |
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)  | 95-80-7     | 202-453-1 | 0.0100 |
| 133 | 6-methoxy-m-toluidine (p-cresidine)                | 120-71-8    | 204-419-1 | 0.0100 |
| 134 | Biphenyl-4-ylamine                                 | 92-67-1     | 202-177-1 | 0.0100 |
| 135 | o-aminoazotoluene                                  | 97-56-3     | 202-591-2 | 0.0050 |
| 136 | o-Toluidine; 2-Aminotoluene                        | 95-53-4     | 202-429-0 | 0.0100 |
| 137 | N-methylacetamide                                  | 79-16-3     | 201-182-6 | 0.0100 |
| 138 | 1-bromopropane; n-propyl bromide                   | 106-94-5    | 203-445-0 | 0.0100 |



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The ninth 6 SVHC(Announced in June, 2013)

Unit: %

| No. | Substance Name(s)  | CAS No.   | EC No.    | RL     |
|-----|--|-----------|-----------|--------|
| 139 | Cadmium  | 7440-43-9 | 231-152-8 | 0.0050 |
| 140 | Cadmium oxide*   | 1306-19-0 | 215-146-2 | 0.0500 |
| 141 | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1 | 223-320-4 | 0.0100 |
| 142 | Pentadecafluorooctanoic acid (PFOA)  | 335-67-1  | 206-397-9 | 0.0100 |
| 143 | Dipentyl phthalate (DPP)   | 131-18-0  | 205-017-9 | 0.0100 |
| 144 | ①4-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] | —         | —         | 0.0500 |

The tenth 7 SVHC(Announced in December, 2013)

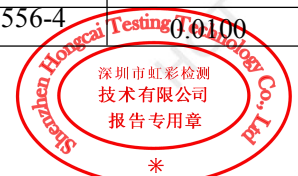
Unit: %

| No. | Substance Name(s)  | CAS No.    | EC No.    | RL     |
|-----|--|------------|-----------|--------|
| 145 | Cadmium sulphide *   | 1306-23-6  | 215-147-8 | 0.0100 |
| 146 | Dihexyl phthalate  | 84-75-3    | 201-559-5 | 0.0100 |
| 147 | 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 | 0.0100 |
| 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 | 0.0100 |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)   | 96-45-7    | 202-506-9 | 0.0100 |
| 150 | Lead di(acetate) *   | 301-04-2   | 206-104-4 | 0.0500 |
| 151 | Trixylyl phosphate   | 25155-23-1 | 246-677-8 | 0.0100 |

The eleventh 4 SVHC(Announced in June, 2014)

Unit: %

| No. | Substance Name(s)  | CAS No.    | EC No.                  | RL     |
|-----|--|------------|-------------------------|--------|
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 271-093-5               | 0.0100 |
| 153 | Cadmium chloride*  | 10108-64-2 | 233-296-7               | 0.0100 |
| 154 | Sodium perborate; perboric acid, sodium salt*                    | —          | 239-172-9,<br>234-390-0 | 0.0100 |
| 155 | Sodium peroxometaborate*   | 7632-04-4  | 231-556-4               | 0.0100 |





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The twelfth 6 SVHC(Announced in December, 2014)

Unit: %

| No. | Substance Name(s)  | CAS No.                   | EC No.    | RL     |
|-----|--|---------------------------|-----------|--------|
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1                | 247-384-8 | 0.0100 |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7                 | 223-346-6 | 0.0100 |
| 158 | Cadmium fluoride*  | 7790-79-6                 | 232-222-0 | 0.0500 |
| 159 | Cadmium sulphate*  | 10124-36-4;<br>31119-53-6 | 233-331-6 | 0.0500 |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)  | 15571-58-1                | 239-622-4 | 0.0500 |
| 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) | —                         | —         | 0.0500 |

The thirteenth 2 SVHC(Announced in June, 2015)

Unit: %

| No. | Substance Name(s)  | CAS No.                  | EC No.                 | RL     |
|-----|--|--------------------------|------------------------|--------|
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)   | 68515-51-5<br>68648-93-1 | 271-094-0<br>272-013-1 | 0.0100 |
| 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 isomers of [1] and [2] or any combination thereof] | —                        | —                      | 0.0100 |





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The fourteenth 5 SVHC(Announced in December, 2015)

Unit: %

| No. | Substance Name(s)  | CAS No.                             | EC No.    | RL     |
|-----|--|-------------------------------------|-----------|--------|
| 164 | Nitrobenzene   | 98-95-3                             | 202-716-0 | 0.0100 |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 3864-99-1                           | 223-383-8 | 0.0100 |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 36437-37-3                          | 253-037-1 | 0.0100 |
| 167 | 1,3-propanesultone   | 1120-71-4                           | 214-317-9 | 0.0100 |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts) | 375-95-1<br>21049-39-8<br>4149-60-4 | 206-801-3 | 0.0100 |

The fifteenth 1 SVHC(Announced in June, 2016)

Unit: %

| No. | Substance Name(s)  | CAS No. | EC No.    | RL     |
|-----|--------------------|---------|-----------|--------|
| 169 | Benzo[def]chrysene | 50-32-8 | 200-028-5 | 0.0100 |

The sixteenth 4 SVHC(Announced in January, 2017)

Unit: %

| No. | Substance Name(s)  | CAS No.                            | EC No.                       | RL     |
|-----|--|------------------------------------|------------------------------|--------|
| 170 | 4,4'-isopropylidenediphenol (bisphenol A) (BPA)                      | 80-05-7                            | 201-245-8                    | 0.0100 |
| 171 | 4-heptylphenol, branched and linear (4-HPbl)                         | —                                  | —                            | 0.0500 |
| 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 | 0.0100 |
| 173 | 4-tert-pentylphenol (PTAP)   | 80-46-6                            | 201-280-9                    | 0.0100 |

The seventeenth 1 SVHC(Announced in July, 2017)

Unit: %

| No. | Substance Name(s)                                      | CAS No. | EC No. | RL     |
|-----|--|---------|--------|--------|
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | —       | —      | 0.0100 |



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The eighteenth 7 SVHC(Announced in January, 2018)

Unit:%

| No. | Substance Name(s)  | CAS No.                   | EC No.    | RL     |
|-----|--|---------------------------|-----------|--------|
| 175 | 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            | —                         | —         | 0.0500 |
| 176 | Benz[a]anthracene  | 56-55-3,<br>1718-53-2     | 200-280-6 | 0.0100 |
| 177 | Cadmium nitrate*   | 10022-68-1,<br>10325-94-7 | 233-710-6 | 0.0500 |
| 178 | Cadmium carbonate*   | 513-78-0                  | 208-168-9 | 0.0500 |
| 179 | Cadmium hydroxide*   | 21041-95-2                | 244-168-5 | 0.0500 |
| 180 | Chrysene   | 218-01-9,<br>1719-03-5    | 205-923-4 | 0.0100 |
| 181 | ①Reaction 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 (4-HPbl) | —                         | —         | 0.0500 |

The nineteenth 10 SVHC(Announced in June, 2018)

Unit:%

| No. | Substance Name(s)  | CAS No.    | EC No.    | RL     |
|-----|--|------------|-----------|--------|
| 182 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) | 552-30-7   | 209-008-0 | 0.0100 |
| 183 | Benzo[ghi]perylene   | 191-24-2   | 205-883-8 | 0.0100 |
| 184 | Decamethylcyclopentasiloxane (D5)  | 541-02-6   | 208-764-9 | 0.0100 |
| 185 | Dicyclohexyl phthalate (DCHP)  | 84-61-7    | 201-545-9 | 0.0100 |
| 186 | Disodium octaborate*   | 12008-41-2 | 234-541-0 | 0.0500 |
| 187 | Dodecamethylcyclohexasiloxane (D6)   | 540-97-6   | 208-762-8 | 0.0100 |
| 188 | Ethylenediamine (EDA)  | 107-15-3   | 203-468-6 | 0.0500 |
| 189 | Lead   | 7439-92-1  | 231-100-4 | 0.0100 |
| 190 | Octamethylcyclotetrasiloxane (D4)  | 556-67-2   | 209-136-7 | 0.0100 |
| 191 | Terphenyl, hydrogenated  | 61788-32-7 | 262-967-7 | 0.0100 |



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The twentieth 6 SVHC(Announced in January, 2019)

Unit:%

| No. | Substance Name(s)   | CAS No.                 | EC No.    | RL     |
|-----|---|-------------------------|-----------|--------|
| 192 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) | 15087-24-8              | 239-139-9 | 0.0100 |
| 193 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 6807-17-6               | 401-720-1 | 0.0100 |
| 194 | Benzo[k]fluoranthene  | 207-08-9                | 205-916-6 | 0.0100 |
| 195 | Fluoranthene  | 206-44-0,<br>93951-69-0 | 205-912-4 | 0.0100 |
| 196 | Phenanthrene  | 85-01-8                 | 201-581-5 | 0.0100 |
| 197 | Pyrene  | 129-00-0,<br>1718-52-1  | 204-927-3 | 0.0100 |

The twenty-first 4 SVHC(Announced in July , 2019)

Unit:%

| No. | Substance Name(s)  | CAS No.  | EC No.    | RL     |
|-----|--|----------|-----------|--------|
| 198 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)                                 | —        | —         | 0.0100 |
| 199 | 4-tert-Butylphenol(PTBP)   | 98-54-4  | 202-679-0 | 0.0100 |
| 200 | 2-methoxyethyl acetate   | 110-49-6 | 203-772-9 | 0.0100 |
| 201 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | —        | —         | 0.0100 |

The twenty-second 4 SVHC(Announced in January , 2020)

Unit:%

| No. | Substance Name(s)   | CAS No.     | EC No.    | RL     |
|-----|---|-------------|-----------|--------|
| 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                           | 119313-12-1 | 404-360-3 | 0.0100 |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (Photoinitiator 907) | 71868-10-5  | 400-600-6 | 0.0100 |
| 204 | Diisohexyl phthalate  | 71850-09-4  | 276-090-2 | 0.0100 |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts                            | —           | —         | 0.0100 |



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The twenty-third 4 SVHC (Announced in June, 2020)

Unit: %

| No. | Substance Name(s)                       | CAS No.    | EC No.    | RL     |
|-----|---|------------|-----------|--------|
| 206 | 1-vinylimidazole                        | 1072-63-5  | 214-012-0 | 0.0500 |
| 207 | 2-methylimidazole                       | 693-98-1   | 211-765-7 | 0.0500 |
| 208 | Butyl 4-hydroxybenzoate                 | 94-26-8    | 202-318-7 | 0.0100 |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | 245-152-0 | 0.0500 |

The twenty-fourth 2 SVHC (Announced in January, 2021)

Unit: %

| No. | Substance Name(s)   | CAS No.  | EC No.    | RL     |
|-----|---|----------|-----------|--------|
| 210 | bis(2-(2-methoxyethoxy)ethyl) ether   | 143-24-8 | 205-594-7 | 0.0100 |
| 211 | Diocyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | —        | —         | 0.0500 |

The twenty-fifth 8 SVHC (Announced in July, 2021)

Unit: %

| No. | Substance Name(s)  | CAS No.   | EC No.                              | RL     |
|-----|--|---|-------------------------------------|--------|
| 212 | 1,4-dioxane  | 123-91-1  | 204-661-8                           | 0.0100 |
| 213 | 2,2-bis(bromomethyl)propane 1,3-diol (BMP)<br>2,2-dimethylpropan-1-ol, tribromo<br>derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol<br>(TBNPA)<br>2,3-dibromo-1-propanol (2,3-DBPA)        | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 | 221-967-7<br>253-057-0<br>202-480-9 | 0.0100 |
| 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers   | —   | —                                   | 0.0500 |
| 215 | 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B))(BPB)   | 77-40-7   | 201-025-1                           | 0.0100 |
| 216 | Glutaral   | 111-30-8  | 203-856-5                           | 0.0100 |
| 217 | Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]          | —   | —                                   | 0.0100 |
| 218 | Orthoboric acid, sodium salt*  | 13840-56-7                                      | 237-560-2                           | 0.0500 |
| 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP) | —   | —                                   | 0.0500 |





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**Note:**

-0.1%=1000mg/kg=1000ppm

-\*: Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, tin, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

-\*\*: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation(EC) No 1272/2008).

-\*\*\*: C.I.: Colour Index

-\*\*\*\*: Light fractions from distillation

-<sup>①</sup> : In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-<sup>②</sup> : In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.





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## Appendix:

(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>

These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 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 in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

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.

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

-a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

-a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

-a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.



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Statement:

1. This report is considered invalid without approved signature and special seal;
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of HCT, this report can't be reproduced except in full.

\*\*\*End\*\*\*

