

Test Report

Report No.: WTH20H05028157X1C-2

Date: June 3, 2020

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Applicant: Sharkoon Technologies GmbH

Address : Grüninger Weg 48, 35415 Pohlheim, Germany

Sample Information:

Sample Name: Sharkoon SKILLER SGH30

Sample Model: SKILLER SGH30

Sample Received Date: May 18, 2020

Testing Period: May 18, 2020 - May 26, 2020

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 five (205) Substances of Very High Concern (SVHC) in the sample. The list is the one that is published by European Chemicals Administration (ECHA) on January 16,2020. | PASS |
| 2.As specified by client, to screen proposed Five(5) Substances of Very High Concern (SVHC) in the sample. The list is the one that is published by European Chemicals Administration (ECHA) on March 3, 2020. | PASS |

Remark:Pass means each result of 205 SVHC and proposed 5 SVHC is less than 0.1%.

Signed for and on behalf of HCT



Michael Huang



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(SVHC)

Tested Sample:

Tested Sample Description:

| Sample No. | Sample Description |
|-------------------|--|
| WTH20H05028157C01 | 1. Non-metal 1 2. Non-metal 2 3. Metal |

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):

1. Test results of Substances in candidate list of SVHC

Unit: %

| Batch | No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-------|-----|-----------------------------------|---------|--------|--------------|-----------|
| | | | | | | 1 |
| / | / | All tested SVHC in candidate list | / | / | / | N.D. |

| Batch | No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-------|-----|-----------------------------------|---------|--------|--------------|-----------|
| | | | | | | 2* |
| / | / | All tested SVHC in candidate list | / | / | / | N.D. |

| Batch | No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-------|-----|-----------------------------------|---------|--------|--------------|-----------|
| | | | | | | 3 |
| / | / | All tested SVHC in candidate list | / | / | / | N.D. |

2. Test results of proposed 5 SVHC

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-----|-------------------|---------|--------|--------------|-----------|
| | | | | | 1 |
| 1~5 | Proposed 5 SVHC | / | / | / | N.D. |

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-----|-------------------|---------|--------|--------------|-----------|
| | | | | | 2 |
| 1~5 | Proposed 5 SVHC | / | / | / | N.D. |



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| No. | Substance Name(s) | CAS No. | EC No. | Report Limit | Result(s) |
|-----|-------------------|---------|--------|--------------|-----------|
| | | | | | 3 |
| 1~5 | Proposed 5 SVHC | / | / | / | N.D. |

Note:

-N.D.= Not Detected (<report limit)

-0.1%=1000mg/kg

-mg/kg=ppm=parts per million

-*=The test results of Diboron trioxide, Boric acid, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Lead bis(tetrafluoroborate), Sodium peroxometaborate and Sodium perborate; perboric acid, sodium salt, Disodium octaborate were based on the 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.

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

-This report replaces the report which report No. is WTH20H05028157C-2.

Remarks:

1. As the concentration 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.
2. The report limit is evaluated based on the representative substances.



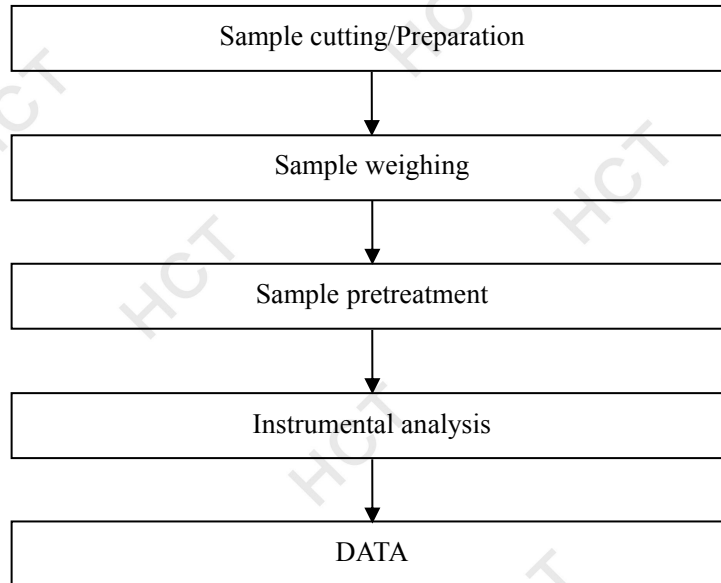
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Test Flow Chart



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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. | Report Limit |
|-----|---|---|-------------------------|--------------|
| 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 (musk xylene) | 81-15-2 | 201-329-4 | 0.0050 |
| 8 | Hexabromocyclododecane and all major diastereoisomers identified:(α -HBCDD, β -HBCDD, γ -HBCDD)(HBCDD) | 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8) | 247-148-4/ 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, 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. | Report Limit |
|-----|--|------------|-----------|--------------|
| 16 | ^① Anthracene oil | 90640-80-5 | 292-602-7 | 0.0500 |
| 17 | ^① Anthracene oil, anthracene paste, distn. Lights**** | 91995-17-4 | 295-278-5 | 0.0500 |
| 18 | ^① Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | 0.0500 |
| 19 | ^① Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | 0.0500 |
| 20 | ^① 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 | ^② Lead chromate | 7758-97-6 | 231-846-0 | 0.0500 |
| 24 | ^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *** | 12656-85-8 | 235-759-9 | 0.0500 |
| 25 | ^② Lead sulfochromate yellow(C.I. Pigment Yellow 34)*** | 1344-37-2 | 215-693-7 | 0.0500 |
| 26 | ^① 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. | Report Limit |
|-----|--|--------------------------------------|------------------------|--------------|
| 29 | Trichloroethylene | 79-01-6 | 201-167-4 | 0.0100 |
| 30 | Boric acid* | 10043-35-3/ 11113-50-1 | 233-139-2 234-343-4 | 0.0500 |
| 31 | Disodium tetraborate, anhydrous* | 1330-43-4 12179-04-3 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 | 231-906-8 | 0.0500 |



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The fourth 8 SVHC(Announced in December,2010)

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|---|-------------------------|------------------------|--------------|
| 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: Chromic acid, Dichromic acid Oligomers of chromic acid and dichromic acid | 7738-94-5 13530-68-2 | 231-801-5 236-881-5 | 0.0500 |

The fifth 7 SVHC(Announced in June, 2011)

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|---|-----------------------|-----------|--------------|
| 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 | 7803-57-8 302-01-2 | 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. | Report Limit |
|-----|---|------------|----------------|--------------|
| 52 | ②Aluminosilicate, Refractory Ceramic Fibres | — | 650-017-00-8** | 0.0500 |
| 53 | ②Zirconia Aluminosilicate, Refractory Ceramic Fibres | — | 650-017-00-8** | 0.0500 |
| 54 | Dichromium tris(chromate) * | 24613-89-6 | 246-356-2 | 0.0500 |
| 55 | Potassium hydroxyoctaoxidizincate 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. | Report Limit |
|-----|---|------------|-----------|--------------|
| 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 | 0.0100 |
| 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 | 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 | 0.0500 |
| 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]dimethylammoniumchloride (C.I. Basic Blue 26) | 2580-56-5 | 219-943-6 | 0.0500 |
| 83 | α, α -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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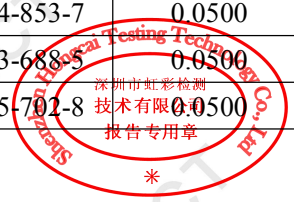
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The eighth 54 SVHC(Announced in December, 2012)

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|---|---|---|--------------|
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | 1163-19-5 | 214-604-9 | 0.0050 |
| 86 | Pentacosafuorotridecanoic acid | 72629-94-8 | 276-745-2 | 0.0100 |
| 87 | Tricosafuorododecanoic acid | 307-55-1 | 206-203-2 | 0.0100 |
| 88 | Henicosafuoroundecanoic acid | 2058-94-8 | 218-165-4 | 0.0100 |
| 89 | Heptacosafuorotetradecanoic 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 | Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | 0.0100 |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) | 85-42-7 | 201-604-9 | 0.0100 |
| 94 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride,Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 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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|-----|--|-------------|-----------|--------------|
| 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)

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| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|--|-----------|-----------|--------------|
| 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. | Report Limit |
|-----|---|------------|-----------|--------------|
| 145 | Cadmium sulphide * | 1306-23-6 | 215-147-8 | 0.0100 |
| 146 | Dihexyl phthalate | 84-75-3 | 201-559-5 | 0.0100 |
| 147 | ②Disodium 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 | ②Disodium 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. | Report Limit |
|-----|--|------------|-------------------------|--------------|
| 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, 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. | Report Limit |
|-----|--|---------------------------|-----------|--------------|
| 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; 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. | Report Limit |
|-----|--|--------------------------|------------------------|--------------|
| 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 68648-93-1 | 271-094-0 272-013-1 | 0.0100 |
| 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] | — | — | 0.0100 |



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The fourteenth 5 SVHC(Announced in December, 2015)

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|--|-------------------------------------|-----------|--------------|
| 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-heptadecafluorononanoic acid and its sodium and ammonium salts) | 375-95-1 21049-39-8 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. | Report Limit |
|-----|--------------------|---------|-----------|--------------|
| 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. | Report Limit |
|-----|--|------------------------------------|------------------------------|--------------|
| 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 | 3108-42-7 335-76-2 3830-45-3 | -- 206-400-3 221-470-5 | 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. | Report Limit |
|-----|--|---------|--------|--------------|
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | — | — | 0.0100 |



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The eighteenth 7 SVHC(Announced in January, 2018)

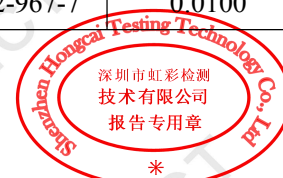
Unit:%

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|--|---------------------------|-----------|--------------|
| 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, 1718-53-2 | 200-280-6 | 0.0100 |
| 177 | Cadmium nitrate* | 10022-68-1, 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, 1719-03-5 | 205-923-4 | 0.0100 |
| 181 | ^① 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 (4-HPbl) | — | — | 0.0500 |

The nineteenth 10 SVHC(Announced in June, 2018)

Unit:%

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|--|------------|-----------|--------------|
| 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 | Decamethylcyclotrisiloxane (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 | Dodecamethylcyclotrisiloxane (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. | Report Limit |
|-----|---|-------------------------|-----------|--------------|
| 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, 93951-69-0 | 205-912-4 | 0.0100 |
| 196 | Phenanthrene | 85-01-8 | 201-581-5 | 0.0100 |
| 197 | Pyrene | 129-00-0, 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. | Report Limit |
|-----|--|----------|-----------|--------------|
| 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. | Report Limit |
|-----|---|-------------|-----------|--------------|
| 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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Proposed 5 Substances of Very High Concern on March, 2020

Unit: %

| No. | Substance Name(s) | CAS No. | EC No. | Report Limit |
|-----|---|------------|-----------|--------------|
| 1 | 1-vinylimidazole | 1072-63-5 | 214-012-0 | 0.0500 |
| 2 | 2-methylimidazole | 693-98-1 | 211-765-7 | 0.0500 |
| 3 | Butyl 4-hydroxybenzoate | 94-26-8 | 202-318-7 | 0.0100 |
| 4 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | 245-152-0 | 0.0500 |
| 5 | Resorcinol | 108-46-3 | 203-585-2 | 0.0100 |

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

-^① : 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.

-^② : 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.

End

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of received samples. Without written authorization, any copy of this report for propaganda is invalid.

