

## REACH SVHC Report

We hereby report that the following products do not contain SVHC (Substances of Very High Concern) authorized by European Chemicals Agency (ECHA) above 0.1wt%.

| Crystal Resonator |          |          |           |          |
|-------------------|----------|----------|-----------|----------|
| Model :           | DST1210A | DST1610A | DST1610AL | DST210AC |
|                   | DST310S  | DST311S  |           |          |
|                   | DST210A  | DST410S  |           |          |

(Scope)

The scope of this report is only product itself. The packaging of the product is excluded.

(Note)

Regarding SVHC (Substances of Very High Concern) authorized by European Chemicals Agency (ECHA), information is provided in good faith and to the best of our knowledge, and based on supplier survey or direct report from our suppliers. The scope of SVHC (Substances of Very High Concern) survey is intentional use and inclusion. This report does not exclude the possibility of the residue as impurity.

Sincerely yours,

Hideki Otsuka  
Section Manager of General Affairs Dept.

Number of the Candidate list: 233 ( last updated: 17 January, 2023 )

| Substance name  | EC No.    | CAS No.                                | Date of inclusion |
|---|-----------|--|-------------------|
| 4,4'- Diaminodiphenylmethane (MDA)                          | 202-974-4 | 101-77-9                               | 28-Oct-2008       |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)          | 201-329-4 | 81-15-2                                | 28-Oct-2008       |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8                             | 28-Oct-2008       |
| Anthracene  | 204-371-1 | 120-12-7                               | 28-Oct-2008       |
| Benzyl butyl phthalate (BBP)                                | 201-622-7 | 85-68-7                                | 28-Oct-2008       |
| Bis (2-ethylhexyl)phthalate (DEHP)                          | 204-211-0 | 117-81-7                               | 28-Oct-2008       |
| Bis(tributyltin) oxide (TBTO)                               | 200-268-0 | 56-35-9                                | 28-Oct-2008       |
| Cobalt dichloride   | 231-589-4 | 7646-79-9                              | 28-Oct-2008       |
| Diarsenic pentaoxide  | 215-116-9 | 1303-28-2                              | 28-Oct-2008       |
| Diarsenic trioxide  | 215-481-4 | 1327-53-3                              | 28-Oct-2008       |
| Dibutyl phthalate (DBP)                                     | 201-557-4 | 84-74-2                                | 28-Oct-2008       |
| Hexabromocyclododecane (HBCDD)                              | -         | -                                      | 28-Oct-2008       |
| Lead hydrogen arsenate                                      | 232-064-2 | 7784-40-9                              | 28-Oct-2008       |
| Sodium dichromate   | 234-190-3 | 10588-01-9,<br>7789-12-0               | 28-Oct-2008       |
| Triethyl arsenate   | 427-700-2 | 15606-95-8                             | 28-Oct-2008       |
| 2,4-dinitrotoluene  | 204-450-0 | 121-14-2                               | 13-Jan-2010       |
| Anthracene oil  | 292-602-7 | 90640-80-5                             | 13-Jan-2010       |
| Anthracene oil, anthracene paste                            | 292-603-2 | 90640-81-6                             | 13-Jan-2010       |
| Anthracene oil, anthracene paste, anthracene fraction       | 295-275-9 | 91995-15-2                             | 13-Jan-2010       |
| Anthracene oil, anthracene paste, distn. lights             | 295-278-5 | 91995-17-4                             | 13-Jan-2010       |
| Anthracene oil, anthracene-low                              | 292-604-8 | 90640-82-7                             | 13-Jan-2010       |
| Diisobutyl phthalate  | 201-553-2 | 84-69-5                                | 13-Jan-2010       |
| Lead chromate   | 231-846-0 | 7758-97-6                              | 13-Jan-2010       |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 235-759-9 | 12656-85-8                             | 13-Jan-2010       |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)          | 215-693-7 | 1344-37-2                              | 13-Jan-2010       |
| Pitch, coal tar, high-temp.                                 | 266-028-2 | 65996-93-2                             | 13-Jan-2010       |
| Tris(2-chloroethyl) phosphate                               | 204-118-5 | 115-96-8                               | 13-Jan-2010       |
| Acrylamide  | 201-173-7 | 79-06-1                                | 30-Mar-2010       |
| Ammonium dichromate   | 232-143-1 | 7789-09-5                              | 18-Jun-2010       |
| Boric acid  | -         | -                                      | 18-Jun-2010       |
| Disodium tetraborate, anhydrous                             | 215-540-4 | 12179-04-3,<br>1303-96-4,<br>1330-43-4 | 18-Jun-2010       |
| Potassium chromate  | 232-140-5 | 7789-00-6                              | 18-Jun-2010       |
| Potassium dichromate  | 231-906-6 | 7778-50-9                              | 18-Jun-2010       |
| Sodium chromate   | 231-889-5 | 7775-11-3                              | 18-Jun-2010       |
| Tetraboron disodium heptaoxide, hydrate                     | 235-541-3 | 12267-73-1                             | 18-Jun-2010       |
| Trichloroethylene   | 201-167-4 | 79-01-6                                | 18-Jun-2010       |
| 2-ethoxyethanol   | 203-804-1 | 110-80-5                               | 15-Dec-2010       |
| 2-methoxyethanol  | 203-713-7 | 109-86-4                               | 15-Dec-2010       |
| Acids generated from chromium trioxide and their oligomers  | -         | -                                      | 15-Dec-2010       |
| Chromium trioxide   | 215-607-8 | 1333-82-0                              | 15-Dec-2010       |
| Cobalt(II) carbonate  | 208-169-4 | 513-79-1                               | 15-Dec-2010       |
| Cobalt(II) diacetate  | 200-755-8 | 71-48-7                                | 15-Dec-2010       |
| Cobalt(II) dinitrate  | 233-402-1 | 10141-05-6                             | 15-Dec-2010       |
| Cobalt(II) sulphate   | 233-334-2 | 10124-43-3                             | 15-Dec-2010       |

| Substance name   | EC No.    | CAS No.                | Date of inclusion |
|--|-----------|------------------------|-------------------|
| 1,2,3-trichloropropane   | 202-486-1 | 96-18-4                | 20-Jun-2011       |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich   | 276-158-1 | 71888-89-6             | 20-Jun-2011       |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters  | 271-084-6 | 68515-42-4             | 20-Jun-2011       |
| 1-Methyl-2-pyrrolidone (NMP)   | 212-828-1 | 872-50-4               | 20-Jun-2011       |
| 2-ethoxyethyl acetate  | 203-839-2 | 111-15-9               | 20-Jun-2011       |
| Hydrazine  | 206-114-9 | 302-01-2,<br>7803-57-8 | 20-Jun-2011       |
| Strontium chromate   | 232-142-6 | 7789-06-2              | 20-Jun-2011       |
| 1,2-dichloroethane   | 203-458-1 | 107-06-2               | 19-Dec-2011       |
| 2,2'-dichloro-4,4'-methylenedianiline  | 202-918-9 | 101-14-4               | 19-Dec-2011       |
| 2-Methoxyaniline, o-Anisidine  | 201-963-1 | 90-04-0                | 19-Dec-2011       |
| 4-(1,1,3,3-tetramethylbutyl)phenol   | 205-426-2 | 140-66-9               | 19-Dec-2011       |
| Aluminosilicate Refractory Ceramic Fibres  | -         | -                      | 19-Dec-2011       |
| Arsenic acid   | 231-901-9 | 7778-39-4              | 19-Dec-2011       |
| Bis(2-methoxyethyl) ether  | 203-924-4 | 111-96-6               | 19-Dec-2011       |
| Bis(2-methoxyethyl) phthalate  | 204-212-6 | 117-82-8               | 19-Dec-2011       |
| Calcium arsenate   | 231-904-5 | 7778-44-1              | 19-Dec-2011       |
| Dichromium tris(chromate)  | 246-356-2 | 24613-89-6             | 19-Dec-2011       |
| Formaldehyde, oligomeric reaction products with aniline  | 500-036-1 | 25214-70-4             | 19-Dec-2011       |
| Lead diazide, Lead azide   | 236-542-1 | 13424-46-9             | 19-Dec-2011       |
| Lead dipicrate   | 229-335-2 | 6477-64-1              | 19-Dec-2011       |
| Lead styphnate   | 239-290-0 | 15245-44-0             | 19-Dec-2011       |
| N,N-dimethylacetamide  | 204-826-4 | 127-19-5               | 19-Dec-2011       |
| Pentazinc chromate octahydroxide   | 256-418-0 | 49663-84-5             | 19-Dec-2011       |
| Phenolphthalein  | 201-004-7 | 77-09-8                | 19-Dec-2011       |
| Potassium hydroxyoctaoxodizincatedichromate  | 234-329-8 | 11103-86-9             | 19-Dec-2011       |
| Trilead diarsenate   | 222-979-5 | 3687-31-8              | 19-Dec-2011       |
| Zirconia Aluminosilicate Refractory Ceramic Fibres   | -         | -                      | 19-Dec-2011       |
| 1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 203-794-9 | 110-71-4               | 18-Jun-2012       |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 203-977-3 | 112-49-2               | 18-Jun-2012       |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)   | 219-514-3 | 2451-62-9              | 18-Jun-2012       |
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)  | 423-400-0 | 59653-74-6             | 18-Jun-2012       |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 209-218-2 | 561-41-1               | 18-Jun-2012       |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 202-027-5 | 90-94-8                | 18-Jun-2012       |
| [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                 | 208-953-6 | 548-62-9               | 18-Jun-2012       |
| [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 219-943-6 | 2580-56-5              | 18-Jun-2012       |
| Diboron trioxide   | 215-125-8 | 1303-86-2              | 18-Jun-2012       |
| Formamide  | 200-842-0 | 75-12-7                | 18-Jun-2012       |
| Lead(II) bis(methanesulfonate)   | 401-750-5 | 17570-76-2             | 18-Jun-2012       |
| N,N,N,N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 202-959-2 | 101-61-1               | 18-Jun-2012       |
| α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)  | 229-851-8 | 6786-83-0              | 18-Jun-2012       |

| Substance name   | EC No.    | CAS No.     | Date of inclusion |
|--|-----------|-------------|-------------------|
| 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear              | 284-032-2 | 84777-06-0  | 19-Dec-2012       |
| 1,2-diethoxyethane   | 211-076-1 | 629-14-1    | 19-Dec-2012       |
| 1-bromopropane (n-propyl bromide)  | 203-445-0 | 106-94-5    | 19-Dec-2012       |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                             | 421-150-7 | 143860-04-2 | 19-Dec-2012       |
| 4,4'-methylenedi-o-toluidine   | 212-658-8 | 838-88-0    | 19-Dec-2012       |
| 4,4'-oxydianiline and its salts  | -         | -           | 19-Dec-2012       |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated                                | -         | -           | 19-Dec-2012       |
| 4-aminoazobenzene  | 200-453-6 | 60-09-3     | 19-Dec-2012       |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                              | 202-453-1 | 95-80-7     | 19-Dec-2012       |
| 4-Nonylphenol, branched and linear   | -         | -           | 19-Dec-2012       |
| 6-methoxy-m-toluidine (p-cresidine)  | 204-419-1 | 120-71-8    | 19-Dec-2012       |
| [Phthalato(2-)]dioxotrilead  | 273-688-5 | 69011-06-9  | 19-Dec-2012       |
| Acetic acid, lead salt, basic  | 257-175-3 | 51404-69-4  | 19-Dec-2012       |
| Biphenyl-4-ylamine   | 202-177-1 | 92-67-1     | 19-Dec-2012       |
| Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)                | 214-604-9 | 1163-19-5   | 19-Dec-2012       |
| Cyclohexane-1,2-dicarboxylic anhydride   | -         | -           | 19-Dec-2012       |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)                       | 204-650-8 | 123-77-3    | 19-Dec-2012       |
| Dibutyltin dichloride (DBTC)   | 211-670-0 | 683-18-1    | 19-Dec-2012       |
| Diethyl sulphate   | 200-589-6 | 64-67-5     | 19-Dec-2012       |
| Diisopentyl phthalate  | 210-088-4 | 605-50-5    | 19-Dec-2012       |
| Dimethyl sulphate  | 201-058-1 | 77-78-1     | 19-Dec-2012       |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 201-861-7 | 88-85-7     | 19-Dec-2012       |
| Dioxobis(stearato)trilead  | 235-702-8 | 12578-12-0  | 19-Dec-2012       |
| Fatty acids, C16-18, lead salts  | 292-966-7 | 91031-62-8  | 19-Dec-2012       |
| Furan  | 203-727-3 | 110-00-9    | 19-Dec-2012       |
| Henicosfluoroundecanoic acid   | 218-165-4 | 2058-94-8   | 19-Dec-2012       |
| Heptacosfluorotetradecanoic acid   | 206-803-4 | 376-06-7    | 19-Dec-2012       |
| Hexahydromethylphthalic anhydride  | -         | -           | 19-Dec-2012       |
| Lead bis(tetrafluoroborate)  | 237-486-0 | 13814-96-5  | 19-Dec-2012       |
| Lead cyanamidate   | 244-073-9 | 20837-86-9  | 19-Dec-2012       |
| Lead dinitrate   | 233-245-9 | 10099-74-8  | 19-Dec-2012       |
| Lead monoxide (lead oxide)   | 215-267-0 | 1317-36-8   | 19-Dec-2012       |
| Lead oxide sulfate   | 234-853-7 | 12036-76-9  | 19-Dec-2012       |
| Lead titanium trioxide   | 235-038-9 | 12060-00-3  | 19-Dec-2012       |
| Lead titanium zirconium oxide  | 235-727-4 | 12626-81-2  | 19-Dec-2012       |
| Methoxyacetic acid   | 210-894-6 | 625-45-6    | 19-Dec-2012       |
| Methyloxirane (Propylene oxide)  | 200-879-2 | 75-56-9     | 19-Dec-2012       |
| N,N-dimethylformamide  | 200-679-5 | 68-12-2     | 19-Dec-2012       |
| N-methylacetamide  | 201-182-6 | 79-16-3     | 19-Dec-2012       |
| n-pentyl-isopentyl phthalate   | -         | 776297-69-9 | 19-Dec-2012       |
| o-aminoazotoluene  | 202-591-2 | 97-56-3     | 19-Dec-2012       |
| o-toluidine  | 202-429-0 | 95-53-4     | 19-Dec-2012       |
| Orange lead (lead tetroxide)   | 215-235-6 | 1314-41-6   | 19-Dec-2012       |
| Pentacosfluorotridecanoic acid   | 276-745-2 | 72629-94-8  | 19-Dec-2012       |
| Pentalead tetraoxide sulphate  | 235-067-7 | 12065-90-6  | 19-Dec-2012       |
| Pyrochlore, antimony lead yellow   | 232-382-1 | 8012-00-8   | 19-Dec-2012       |
| Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped | 272-271-5 | 68784-75-8  | 19-Dec-2012       |

| Substance name   | EC No.    | CAS No.                   | Date of inclusion |
|--|-----------|---------------------------|-------------------|
| Silicic acid, lead salt  | 234-363-3 | 11120-22-2                | 19-Dec-2012       |
| Sulfurous acid, lead salt, dibasic   | 263-467-1 | 62229-08-7                | 19-Dec-2012       |
| Tetraethyllead   | 201-075-4 | 78-00-2                   | 19-Dec-2012       |
| Tetralead trioxide sulphate  | 235-380-9 | 12202-17-4                | 19-Dec-2012       |
| Tricosafuorododecanoic acid  | 206-203-2 | 307-55-1                  | 19-Dec-2012       |
| Trilead bis(carbonate) dihydroxide   | 215-290-6 | 1319-46-6                 | 19-Dec-2012       |
| Trilead dioxide phosphonate  | 235-252-2 | 12141-20-7                | 19-Dec-2012       |
| 4-Nonylphenol, branched and linear, ethoxylated  | -         | -                         | 20-Jun-2013       |
| Ammonium pentadecafluorooctanoate (APFO)   | 223-320-4 | 3825-26-1                 | 20-Jun-2013       |
| Cadmium  | 231-152-8 | 7440-43-9                 | 20-Jun-2013       |
| Cadmium oxide  | 215-146-2 | 1306-19-0                 | 20-Jun-2013       |
| Dipentyl phthalate (DPP)   | 205-017-9 | 131-18-0                  | 20-Jun-2013       |
| Pentadecafluorooctanoic acid (PFOA)  | 206-397-9 | 335-67-1                  | 20-Jun-2013       |
| Cadmium sulphide   | 215-147-8 | 1306-23-6                 | 16-Dec-2013       |
| Dihexyl phthalate  | 201-559-5 | 84-75-3                   | 16-Dec-2013       |
| Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 209-358-4 | 573-58-0                  | 16-Dec-2013       |
| 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)  | 217-710-3 | 1937-37-7                 | 16-Dec-2013       |
| Imidazolidine-2-thione (2-imidazoline-2-thiol)   | 202-506-9 | 96-45-7                   | 16-Dec-2013       |
| Lead di(acetate)   | 206-104-4 | 301-04-2                  | 16-Dec-2013       |
| Trixylyl phosphate   | 246-677-8 | 25155-23-1                | 16-Dec-2013       |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 271-093-5 | 68515-50-4                | 16-Jun-2014       |
| Cadmium chloride   | 233-296-7 | 10108-64-2                | 16-Jun-2014       |
| Sodium perborate, perboric acid, sodium salt   | -         | -                         | 16-Jun-2014       |
| Sodium peroxometaborate  | 231-556-4 | 7632-04-4                 | 16-Jun-2014       |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 247-384-8 | 25973-55-1                | 17-Dec-2014       |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 223-346-6 | 3846-71-7                 | 17-Dec-2014       |
| 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 239-622-4 | 15571-58-1                | 17-Dec-2014       |
| Cadmium fluoride   | 232-222-0 | 7790-79-6                 | 17-Dec-2014       |
| Cadmium sulphate   | 233-331-6 | 10124-36-4,<br>31119-53-6 | 17-Dec-2014       |
| 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) | -         | -                         | 17-Dec-2014       |
| 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters  | -         | -                         | 15-Jun-2015       |
| 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]   | -         | -                         | 15-Jun-2015       |
| 1,3-propanesultone   | 214-317-9 | 1120-71-4                 | 17-Dec-2015       |
| 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 223-383-8 | 3864-99-1                 | 17-Dec-2015       |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 253-037-1 | 36437-37-3                | 17-Dec-2015       |

| Substance name   | EC No.    | CAS No.     | Date of inclusion |
|--|-----------|-------------|-------------------|
| Nitrobenzene   | 202-716-0 | 98-95-3     | 17-Dec-2015       |
| Perfluorononan-1-oic-acid and its sodium and ammonium salts  | -         | -           | 17-Dec-2015       |
| Benzo[def]chrysene (Benzo[a]pyrene)  | 200-028-5 | 50-32-8     | 20-Jun-2016       |
| 4,4'-isopropylidenediphenol  | 201-245-8 | 80-05-7     | 12-Jan-2017       |
| 4-heptylphenol, branched and linear  | -         | -           | 12-Jan-2017       |
| Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | -         | -           | 12-Jan-2017       |
| p-(1,1-dimethylpropyl)phenol   | 201-280-9 | 80-46-6     | 12-Jan-2017       |
| Perfluorohexane-1-sulphonic acid and its salts   | -         | -           | 07-Jul-2017       |
| 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) | -         | -           | 15-Jan-2018       |
| Benz[a]anthracene  | 200-280-6 | 56-55-3     | 15-Jan-2018       |
| Cadmium carbonate  | 208-168-9 | 513-78-0    | 15-Jan-2018       |
| Cadmium hydroxide  | 244-168-5 | 21041-95-2  | 15-Jan-2018       |
| Cadmium nitrate  | 233-710-6 | 10325-94-7  | 15-Jan-2018       |
| Chrysene   | 205-923-4 | 218-01-9    | 15-Jan-2018       |
| Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)  | -         | -           | 15-Jan-2018       |
| Benzene-1,2,4-tricarboxylic acid 1,2 anhydride   | 209-008-0 | 552-30-7    | 27-Jun-2018       |
| Benzo[ghi]perylene   | 205-883-8 | 191-24-2    | 27-Jun-2018       |
| Decamethylcyclopentasiloxane   | 208-764-9 | 541-02-6    | 27-Jun-2018       |
| Dicyclohexyl phthalate   | 201-545-9 | 84-61-7     | 27-Jun-2018       |
| Disodium octaborate  | 234-541-0 | 12008-41-2  | 27-Jun-2018       |
| Dodecamethylcyclohexasiloxane  | 208-762-8 | 540-97-6    | 27-Jun-2018       |
| Ethylenediamine  | 203-468-6 | 107-15-3    | 27-Jun-2018       |
| Lead   | 231-100-4 | 7439-92-1   | 27-Jun-2018       |
| Octamethylcyclotetrasiloxane   | 209-136-7 | 556-67-2    | 27-Jun-2018       |
| Terphenyl, hydrogenated  | 262-967-7 | 61788-32-7  | 27-Jun-2018       |
| 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one  | 239-139-9 | 15087-24-8  | 15-Jan-2019       |
| 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 401-720-1 | 6807-17-6   | 15-Jan-2019       |
| Benzo[k]fluoranthene   | 205-916-6 | 207-08-9    | 15-Jan-2019       |
| Fluoranthene   | 205-912-4 | 206-44-0    | 15-Jan-2019       |
| Phenanthrene   | 201-581-5 | 85-01-8     | 15-Jan-2019       |
| Pyrene   | 204-927-3 | 129-00-0    | 15-Jan-2019       |
| 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides                               | -         | -           | 16-Jul-2019       |
| 2-methoxyethyl acetate   | 203-772-9 | 110-49-6    | 16-Jul-2019       |
| 4-tert-butylphenol   | 202-679-0 | 98-54-4     | 16-Jul-2019       |
| Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | -         | -           | 16-Jul-2019       |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone  | 404-360-3 | 119313-12-1 | 16-Jan-2020       |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one   | 400-600-6 | 71868-10-5  | 16-Jan-2020       |
| Diisohexyl phthalate   | 276-090-2 | 71850-09-4  | 16-Jan-2020       |
| Perfluorobutane sulfonic acid (PFBS) and its salts   | -         | -           | 16-Jan-2020       |
| 1-vinylimidazole   | 214-012-0 | 1072-63-5   | 25-Jun-2020       |
| 2-methylimidazole  | 211-765-7 | 693-98-1    | 25-Jun-2020       |

| Substance name   | EC No.    | CAS No.     | Date of inclusion |
|--|-----------|-------------|-------------------|
| Butyl 4-hydroxybenzoate  | 202-318-7 | 94-26-8     | 25-Jun-2020       |
| Dibutylbis(pentane-2,4-dionato-O,O')tin  | 245-152-0 | 22673-19-4  | 25-Jun-2020       |
| Bis(2-(2-methoxyethoxy)ethyl)ether   | 205-594-7 | 143-24-8    | 19-Jan-2021       |
| Diocetyl tin 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 | -         | -           | 19-Jan-2021       |
| 1,4-dioxane  | 204-661-8 | 123-91-1    | 08-Jul-2021       |
| 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)                                  | -         | -           | 08-Jul-2021       |
| 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers   | -         | -           | 08-Jul-2021       |
| 4,4'-(1-methylpropylidene)bisphenol  | 201-025-1 | 77-40-7     | 08-Jul-2021       |
| glutaral   | 203-856-5 | 111-30-8    | 08-Jul-2021       |
| Medium-chain chlorinated paraffins (MCCP)  | -         | -           | 08-Jul-2021       |
| orthoboric acid, sodium salt   | -         | -           | 08-Jul-2021       |
| Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)                          | -         | -           | 08-Jul-2021       |
| (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)   | -         | -           | 17-Jan-2022       |
| 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol   | 204-327-1 | 119-47-1    | 17-Jan-2022       |
| S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate  | 401-850-9 | 255881-94-8 | 17-Jan-2022       |
| tris(2-methoxyethoxy)vinylsilane   | 213-934-0 | 1067-53-4   | 17-Jan-2022       |
| N-(hydroxymethyl)acrylamide  | 213-103-2 | 924-42-5    | 10-Jun-2022       |
| 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]   | 253-692-3 | 37853-59-1  | 17-Jan-2023       |
| 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol   | 201-236-9 | 79-94-7     | 17-Jan-2023       |
| 4,4'-sulphonyldiphenol   | 201-250-5 | 80-09-1     | 17-Jan-2023       |
| Barium diboron tetraoxide  | 237-222-4 | 13701-59-2  | 17-Jan-2023       |
| bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof   | -         | -           | 17-Jan-2023       |
| Isobutyl 4-hydroxybenzoate   | 224-208-8 | 4247-02-3   | 17-Jan-2023       |
| Melamine   | 203-615-4 | 108-78-1    | 17-Jan-2023       |
| Perfluoroheptanoic acid and its salts  | -         | -           | 17-Jan-2023       |
| reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine  | 473-390-7 | -           | 17-Jan-2023       |

\*<Target Substances> : Substances listed in the Candidate List of SVHC for Authorization (See the website below)  
<https://echa.europa.eu/candidate-list-table>