



Test Report

Report No: KEYS241011053002RH-03

Date: Oct. 16, 2024

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

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

Sample Name : Switching Power Supply
Trade Name : Sharkoon
Sample Model : REBEL P10 550、REBEL P10 650、REBEL P10 750、REBEL P10 850
Sample Received Date : Oct. 11, 2024
Testing Period : Oct. 11, 2024 To Oct. 16, 2024
Test Requested : Two hundred and forty one (241 Substances of Very High Concern (SVHC) Based on the list Published by European Chemicals Agency (ECHA) on Oct. 28, 2008 & Jan. 13, 2010 & Mar. 30, 2010 & Jun. 18, 2010 & Dec.15, 2010 & Jun. 20, 2011 & Dec. 19, 2011 & Jun. 18, 2012 & Dec. 19, 2012 & Jun. 20, 2013 & Dec.16, 2013 & Mar. 3, 2014 & Jun. 16, 2014 & Dec. 17, 2014 & Jun. 15, 2015 & Dec. 17, 2015 & Jun. 20, 2016 & Jan. 12, 2017&Jul. 07, 2017 & Jan. 15, 2018 & Jun. 27, 2018&Jan. 15, 2019 & Jul, 16, 2019, Jan. 16, 2020 & Jun. 16, 2020 & Jan. 19, 2021 & Jul. 08, 2021&Jan. 17, 2022 & Jun. 10, 2022 & Jan. 17, 2023 & Jun. 14, 2023 & Jan. 23, 2024 & Jun. 27, 2024 for public consultation, regarding regulation (EC) No 1907/2006 concerning the REACH.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Conclusion : **PASS** (Based on test results)

Signed for and on behalf of

Tony Qian/Approved Signatory



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Remark :

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. REACH obligation:

2.1 Concerning article(s):

Communication:

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.

Notification:

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).

2.2 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.

2.3 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 (SVHC)

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:

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- (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.
3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.





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Test Method:

In-House method KEYS-SVHC-011-01, KEYS-SVHC-011-02, AFPS GS 2019:01 PAK, BS EN ISO 14362-1:2017, EN 14372-2004, EPA 3550 C:2007, EPA 8082 A:2007/EPA 8081 B:2007, BS ISO 17353:2004 EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996 Analyzed by ICP-OES, UV-Vis, GC-MS, HPLC-DAD/MS and Colorimetric Method.

Test Result: Substances in the Candidate List of SVHC

| No. | MDL | Limit | Result |
|--------------------|--|-------|--------|
| A | -- | 0.1% | N.D. |
| B | -- | 0.1% | N.D. |
| Conclusion: | According to the specified scope and analytical techniques, concentrations of tested SVHC comply with the limits as set by Regulation (EC) No 1907/2006 concerning the REACH | | |

1. Calculated concentration of bis (tributyltin) oxide TBTO is based on the identified tributyltin, TBT results. The result is screening testing of TBTO and other salts under current technology.
2. Calculated concentration of cobalt dichloride is based on the identified heavy metal and anion result. Calculated concentration of diarrheic pent oxide, diarrheic trioxide, sodium dichromate, dehydrate, Lead hydrogen arsenates and tritely arsenate are based on the identified heavy metal result.
3. Definition of classification of this report in accordance 67/548/EEC and Regulation (EC) No.1907/2006
4. N.D. = Not Detected (<MDL)
5. MDL = Method Detection Limit
MDL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum
MDL =0.0005%, boron
MDL =0.0025% only for Lead bis(tetrafluoroborate)
MDL =0.005% (other).

Full list of tested SVHC:

| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|---|-----------|------------|--|-------------------|
| 1 | 4,4'-Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | Carcinogenic (Article 57a) | 28-Oct-2008 |
| 2 | 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) | 201-329-4 | 81-15-2 | vPvB (Article 57e) | 28-Oct-2008 |
| 3 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8 | PBT (Article 57d)# vPvB (Article 57e) | 28-Oct-2008 |

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| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|-------------------------------------|-----------|-------------|---|-------------------|
| 4 | Anthracene | 204-371-1 | 120-12-7 | PBT (Article 57d) | 28-Oct-2008 |
| 5 | Benzyl butyl phthalate (BBP) | 201-622-7 | 85-68-7 | Toxic for reproduction (Article 57c) #Endocrine disrupting properties (Article 57(f) - human health) | 28-Oct-2008 |
| 6 | Bis (2-ethylhexyl)phthalate (DEHP) | 204-211-0 | 117-81-7 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 28-Oct-2008 |
| 7 | Bis(tributyltin) oxide (TBTO) | 200-268-0 | 56-35-9 | PBT (Article 57d) | 28-Oct-2008 |
| 8 | Cobalt dichloride | 231-589-4 | 7646-79-9 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 28-Oct-2008 |
| 9 | Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | Carcinogenic (Article 57a) | 28-Oct-2008 |
| 10 | Diarsenic trioxide | 215-481-4 | 1327-53-3 | Carcinogenic (Article 57a) | 28-Oct-2008 |
| 11 | Dibutyl phthalate (DBP) | 201-557-4 | 84-74-2 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - human health) | 28-Oct-2008 |
| 12 | Hexabromocyclododecane (HBCDD) | - | - | PBT (Article 57d) | 28-Oct-2008 |
| | 1,2,5,6,9,10-hexabromocyclododecane | 221-695-9 | 3194-55-6 | PBT (Article 57d) | 28-Oct-2008 |
| | gamma-hexabromocyclododecane | - | 134237-52-8 | PBT (Article 57d) | 28-Oct-2008 |
| | Hexabromocyclododecane | 247-148-4 | 25637-99-4 | PBT (Article 57d) | 28-Oct-2008 |
| | alpha-hexabromocyclododecane | - | 134237-50-6 | PBT (Article 57d) | 28-Oct-2008 |

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|-----|---|-----------|--------------------------|---|-------------------|
| | beta-hexabromocyclododecane | - | 134237-51-7 | PBT (Article 57d) | 28-Oct-2008 |
| 13 | Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 28-Oct-2008 |
| 14 | Sodium dichromate | 234-190-3 | 10588-01-9, 7789-12-0 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c) | 28-Oct-2008 |
| 15 | Triethyl arsenate | 427-700-2 | 15606-95-8 | Carcinogenic (Article 57a) | 28-Oct-2008 |
| 16 | 2,4-dinitrotoluene | 204-450-0 | 121-14-2 | Carcinogenic (Article 57a) | 13-Jan-2010 |
| 17 | Anthracene oil | 292-602-7 | 90640-80-5 | Carcinogenic (Article 57a)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 18 | Anthracene oil, anthracene paste | 292-603-2 | 90640-81-6 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 19 | Anthracene oil, anthracene paste, anthracene fraction | 295-275-9 | 91995-15-2 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 20 | Anthracene oil, anthracene paste, distn. lights | 295-278-5 | 91995-17-4 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 21 | Anthracene oil, anthracene-low | 292-604-8 | 90640-82-7 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 22 | Diisobutyl phthalate | 201-553-2 | 84-69-5 | Toxic for reproduction (Article 57c)#Endocrine | 13-Jan-2010 |

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| | | | | disrupting properties (Article 57(f) - human health) | |
| 23 | Lead chromate | 231-846-0 | 7758-97-6 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 13-Jan-2010 |
| 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 235-759-9 | 12656-85-8 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 13-Jan-2010 |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 215-693-7 | 1344-37-2 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 13-Jan-2010 |
| 26 | Pitch, coal tar, high-temp. | 266-028-2 | 65996-93-2 | Carcinogenic (Article 57a)#PBT (Article 57d)#vPvB (Article 57e) | 13-Jan-2010 |
| 27 | Tris(2-chloroethyl) phosphate | 204-118-5 | 115-96-8 | Toxic for reproduction (Article 57c) | 13-Jan-2010 |
| 28 | Acrylamide | 201-173-7 | 79-06-1 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 30-Mar-2010 |
| 29 | Ammonium dichromate | 232-143-1 | 7789-09-5 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| 30 | Boric acid | - | - | Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| | Boric acid, crude natural | 234-343-4 | 11113-50-1 | Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| | Boric acid | 233-139-2 | 10043-35-3 | Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| 31 | Disodium tetraborate, anhydrous | 215-540-4 | 12179-04-3, 1303-96-4, 1 | Toxic for reproduction (Article 57c) | 18-Jun-2010 |

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| | | | 330-43-4 | | |
| 32 | Potassium chromate | 232-140-5 | 7789-00-6 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 18-Jun-2010 |
| 33 | Potassium dichromate | 231-906-6 | 7778-50-9 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| 34 | Sodium chromate | 231-889-5 | 7775-11-3 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| 35 | Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | Toxic for reproduction (Article 57c) | 18-Jun-2010 |
| 36 | Trichloroethylene | 201-167-4 | 79-01-6 | Carcinogenic (Article 57a) | 18-Jun-2010 |
| 37 | 2-ethoxyethanol | 203-804-1 | 110-80-5 | Toxic for reproduction (Article 57c) | 15-Dec-2010 |
| 38 | 2-methoxyethanol | 203-713-7 | 109-86-4 | Toxic for reproduction (Article 57c) | 15-Dec-2010 |
| 39 | Acids generated from chromium trioxide and their oligomers | - | - | Carcinogenic (Article 57a) | 15-Dec-2010 |
| | Chromic acid | 231-801-5 | 7738-94-5 | Carcinogenic (Article 57a) | 15-Dec-2010 |
| | Oligomers of chromic acid and dichromic acid | - | - | Carcinogenic (Article 57a) | 15-Dec-2010 |
| | Dichromic acid | 236-881-5 | 13530-68-2 | Carcinogenic (Article 57a) | 15-Dec-2010 |
| 40 | Chromium trioxide | 215-607-8 | 1333-82-0 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 15-Dec-2010 |
| 41 | Cobalt(II) carbonate | 208-169-4 | 513-79-1 | Carcinogenic (Article 57a)#Toxic for | 15-Dec-2010 |

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| | | | | reproduction (Article 57c) | |
| 42 | Cobalt(II) diacetate | 200-755-8 | 71-48-7 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 15-Dec-2010 |
| 43 | Cobalt(II) dinitrate | 233-402-1 | 10141-05-6 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 15-Dec-2010 |
| 44 | Cobalt(II) sulphate | 233-334-2 | 10124-43-3 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 15-Dec-2010 |
| 45 | 1,2,3-trichloropropane | 202-486-1 | 96-18-4 | Carcinogenic (Article 57a)#Toxic for reproduction (Article 57c) | 20-Jun-2011 |
| 46 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 276-158-1 | 71888-89-6 | Toxic for reproduction (Article 57c) | 20-Jun-2011 |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 271-084-6 | 68515-42-4 | Toxic for reproduction (Article 57c) | 20-Jun-2011 |
| 48 | 1-Methyl-2-pyrrolidone (NMP) | 212-828-1 | 872-50-4 | Toxic for reproduction (Article 57c) | 20-Jun-2011 |
| 49 | 2-ethoxyethyl acetate | 203-839-2 | 111-15-9 | Toxic for reproduction (Article 57c) | 20-Jun-2011 |
| 50 | Hydrazine | 206-114-9 | 302-01-2, 7803-57-8 | Carcinogenic (Article 57a) | 20-Jun-2011 |
| 51 | Strontium chromate | 232-142-6 | 7789-06-2 | Carcinogenic (Article 57a) | 20-Jun-2011 |
| 52 | 1,2-dichloroethane | 203-458-1 | 107-06-2 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 53 | 2,2'-dichloro-4,4'-methylenedianiline | 202-918-9 | 101-14-4 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 54 | 2-Methoxyaniline, o-Anisidine | 201-963-1 | 90-04-0 | Carcinogenic (Article 57a) | 19-Dec-2011 |

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| 55 | 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 140-66-9 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2011 |
| 56 | Aluminosilicate Refractory Ceramic Fibres | - | - | Carcinogenic (Article 57a) | 19-Dec-2011 |
| | Refractories, fibers, aluminosilicate | - | 142844-00-6 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 57 | Arsenic acid | 231-901-9 | 7778-39-4 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 58 | Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 59 | Bis(2-methoxyethyl) phthalate | 204-212-6 | 117-82-8 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 60 | Calcium arsenate | 231-904-5 | 7778-44-1 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 61 | Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 62 | Formaldehyde, oligomeric reaction products with aniline | 500-036-1 | 25214-70-4 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 63 | Lead diazide, Lead azide | 236-542-1 | 13424-46-9 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 64 | Lead dipicrate | 229-335-2 | 6477-64-1 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 65 | Lead styphnate | 239-290-0 | 15245-44-0 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 66 | N,N-dimethylacetamide | 204-826-4 | 127-19-5 | Toxic for reproduction (Article 57c) | 19-Dec-2011 |
| 67 | Pentazinc chromate octahydroxide | 256-418-0 | 49663-84-5 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 68 | Phenolphthalein | 201-004-7 | 77-09-8 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 69 | Potassium hydroxyoctaoxodizincatedi chromate | 234-329-8 | 11103-86-9 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 70 | Trilead diarsenate | 222-979-5 | 3687-31-8 | Carcinogenic (Article 57a)#Toxic for | 19-Dec-2011 |

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| | | | | reproduction (Article 57c) | |
| 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres | - | - | Carcinogenic (Article 57a) | 19-Dec-2011 |
| | Refractories, fibers, aluminosilicate | - | 142844-00-6 | Carcinogenic (Article 57a) | 19-Dec-2011 |
| 72 | 1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | Toxic for reproduction (Article 57c) | 18-Jun-2012 |
| 73 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 112-49-2 | Toxic for reproduction (Article 57c) | 18-Jun-2012 |
| 74 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 2451-62-9 | Mutagenic (Article 57b) | 18-Jun-2012 |
| 75 | 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 | Mutagenic (Article 57b) | 18-Jun-2012 |
| 76 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | 209-218-2 | 561-41-1 | Carcinogenic (Article 57a) | 18-Jun-2012 |
| 77 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | Carcinogenic (Article 57a) | 18-Jun-2012 |
| 78 | [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 | Carcinogenic (Article 57a) | 18-Jun-2012 |
| 79 | [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 | Carcinogenic (Article 57a) | 18-Jun-2012 |
| 80 | Diboron trioxide | 215-125-8 | 1303-86-2 | Toxic for reproduction (Article 57c) | 18-Jun-2012 |
| 81 | Formamide | 200-842-0 | 75-12-7 | Toxic for reproduction (Article 57c) | 18-Jun-2012 |
| 82 | Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 | Toxic for reproduction (Article 57c) | 18-Jun-2012 |
| 83 | N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base) | 202-959-2 | 101-61-1 | Carcinogenic (Article 57a) | 18-Jun-2012 |

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| 84 | α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) | 229-851-8 | 6786-83-0 | Carcinogenic (Article 57a) | 18-Jun-2012 |
| 85 | 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear | 284-032-2 | 84777-06-0 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 86 | 1,2-diethoxyethane | 211-076-1 | 629-14-1 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 87 | 1-bromopropane (n-propyl bromide) | 203-445-0 | 106-94-5 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 88 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 89 | 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 90 | 4,4'-oxydianiline and its salts | - | - | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 19-Dec-2012 |
| | 4,4'-oxydianiline | 202-977-0 | 101-80-4 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 19-Dec-2012 |
| 91 | 4-(1,1,3,3-tetramethylbutyl)phenol, et hoxylated | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethanol | - | 2315-61-9 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol | - | 2315-67-5 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenyl ether | - | 9002-93-1 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | Poly(oxy-1,2-ethanediyl), α -[(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy- | - | 9036-19-5 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| 20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol | 219-682-8 | 2497-59-8 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 | |

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| | | | | environment) | |
| 92 | 4-aminoazobenzene | 200-453-6 | 60-09-3 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 93 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 94 | 4-Nonylphenol, branched and linear | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | Phenol, 4-nonyl-, branched | 284-325-5 | 84852-15-3 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | p-isononylphenol | 247-770-6 | 26543-97-5 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 4-(1-ethyl-1-methylhexyl)phenol | 257-907-1 | 52427-13-1 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | p-(1-methyloctyl)phenol | 241-427-4 | 17404-66-9 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | p-(1,1-dimethylheptyl)phenol | 250-339-5 | 30784-30-6 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 4-(1-Ethyl-1,3-dimethylpentyl)phenol | - | 186825-36-5 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 4-(1-Ethyl-1,4-dimethylpentyl)phenol | - | 142731-63-3 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | p-nonylphenol | 203-199-4 | 104-40-5 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 4-(3-ethylheptan-2-yl)phenol | - | 186825-39-8 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |

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| | Nonylphenol | 246-672-0 | 25154-52-3 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | Phenol, nonyl-, branched | 291-844-0 | 90481-04-2 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | 4-(1,1,5-Trimethylhexyl)phenol | - | 521947-27-3 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| | Isononylphenol | 234-284-4 | 11066-49-2 | Endocrine disrupting properties (Article 57(f) - environment) | 19-Dec-2012 |
| 95 | 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 96 | [Phthalato(2-)]dioxotrilead | 273-688-5 | 69011-06-9 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 97 | Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 98 | Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 99 | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) | 214-604-9 | 1163-19-5 | PBT (Article 57d)#vPvB (Article 57e) | 19-Dec-2012 |
| | Cyclohexane-1,2-dicarboxylic anhydride | - | - | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| 100 | cis-cyclohexane-1,2-dicarboxylic anhydride | 236-086-3 | 13149-00-3 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | Cyclohexane-1,2-dicarboxylic anhydride | 201-604-9 | 85-42-7 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | trans-cyclohexane-1,2-dicarboxylic anhydride | 238-009-9 | 14166-21-3 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) | 204-650-8 | 123-77-3 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |

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| | | | | human health) | |
| 102 | Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 103 | Diethyl sulphate | 200-589-6 | 64-67-5 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 19-Dec-2012 |
| 104 | Diisopentyl phthalate | 210-088-4 | 605-50-5 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 105 | Dimethyl sulphate | 201-058-1 | 77-78-1 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 106 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 107 | Dioxobis(stearato)trilead | 235-702-8 | 12578-12-0 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 108 | Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 109 | Furan | 203-727-3 | 110-00-9 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 110 | Henicosaflluoroundecanoic acid | 218-165-4 | 2058-94-8 | vPvB (Article 57e) | 19-Dec-2012 |
| 111 | Heptacosaflluorotetradecanoic acid | 206-803-4 | 376-06-7 | vPvB (Article 57e) | 19-Dec-2012 |
| 112 | Hexahydromethylphthalic anhydride | - | - | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | Hexahydro-1-methylphthalic anhydride | 256-356-4 | 48122-14-1 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | Hexahydromethylphthalic anhydride | 247-094-1 | 25550-51-0 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | Hexahydro-3-methylphthalic anhydride | 260-566-1 | 57110-29-9 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |
| | Hexahydro-4-methylphthalic anhydride | 243-072-0 | 19438-60-9 | Respiratory sensitising properties (Article 57(f) - human health) | 19-Dec-2012 |

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| 113 | Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 114 | Lead cyanamidate | 244-073-9 | 20837-86-9 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 115 | Lead dinitrate | 233-245-9 | 10099-74-8 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 116 | Lead monoxide (lead oxide) | 215-267-0 | 1317-36-8 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 117 | Lead oxide sulfate | 234-853-7 | 12036-76-9 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 118 | Lead titanium trioxide | 235-038-9 | 12060-00-3 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 119 | Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 120 | Methoxyacetic acid | 210-894-6 | 625-45-6 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 121 | Methyloxirane (Propylene oxide) | 200-879-2 | 75-56-9 | Carcinogenic (Article 57a)#Mutagenic (Article 57b) | 19-Dec-2012 |
| 122 | N,N-dimethylformamide | 200-679-5 | 68-12-2 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 123 | N-methylacetamide | 201-182-6 | 79-16-3 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 124 | n-pentyl-isopentyl phthalate | - | 776297-69-9 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 125 | o-aminoazotoluene | 202-591-2 | 97-56-3 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 126 | o-toluidine | 202-429-0 | 95-53-4 | Carcinogenic (Article 57a) | 19-Dec-2012 |
| 127 | Orange lead (lead tetroxide) | 215-235-6 | 1314-41-6 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 128 | Pentacosfluorotridecanoic acid | 276-745-2 | 72629-94-8 | vPvB (Article 57e) | 19-Dec-2012 |
| 129 | Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 130 | Pyrochlore, antimony lead yellow | 232-382-1 | 8012-00-8 | Toxic for reproduction | 19-Dec-2012 |

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| | | | | (Article 57c) | |
| 131 | Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped | 272-271-5 | 68784-75-8 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 132 | Silicic acid, lead salt | 234-363-3 | 11120-22-2 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 133 | Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 134 | Tetraethyllead | 201-075-4 | 78-00-2 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 135 | Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 136 | Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | vPvB (Article 57e) | 19-Dec-2012 |
| 137 | Trilead bis(carbonate) dihydroxide | 215-290-6 | 1319-46-6 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 138 | Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | Toxic for reproduction (Article 57c) | 19-Dec-2012 |
| 139 | 4-Nonylphenol, branched and linear, ethoxylated | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, branched, ethoxylated | 500-209-1 | 68412-54-4 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 20-(4-nonylphenoxy)-3,6,9,12,15,18-h exaoxaicosan-1-ol | 248-743-1 | 27942-27-4 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 4-Nonylphenol, ethoxylated | 500-045-0 | 26027-38-3 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated | 500-024-6 | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Poly (oxy-1,2-ethanediyl), alpha -(n onylphenyl)-omega-hydroxy-, branch ed | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-[2-[2-[2-(4-nonylphenoxy)ethoxy]et | 230-770-5 | 7311-27-5 | Endocrine disrupting | 20-Jun-2013 |

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| | hoxyl[ethoxy]ethanol | | | properties (Article 57(f) - environment) | |
| | Poly(oxy-1,2-ethanediyl), α -(nonylphenyl)- ω -hydroxy-, branched | - | 68412-54-4 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (10-EO) | - | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-[2-(4-nonylphenoxy)ethoxy]ethanol | 243-816-4 | 20427-84-3 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (8-EO) | - | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (6,5-EO) | - | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol | - | 14409-72-4 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (15-EO) | - | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(nonylphenoxy)- | - | 27177-01-1 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 3,6,9,12,15,18,21,24,27-Nonaoxanona cosan-1-ol, 29-(isononylphenoxy)- | - | 65455-72-3 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-(isononylphenoxy)ethanol | 284-987-5 | 85005-55-6 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-, branched | 293-926-1 | 91648-64-5 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |

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| | 4-Nonylphenol, branched, ethoxylated | 500-315-8 | 127087-87-0 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol; | 255-695-5 | 42173-90-0 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 44-(nonylphenoxy)-3,6,9,12,15,18,21,24,27,30,33,36,39,42-tetradecaooxatetracontanol | 260-678-0 | 57321-10-5 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol | 247-555-7 | 26264-02-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol | 247-816-5 | 26571-11-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-[2-(nonylphenoxy)ethoxy]ethanol | 248-291-5 | 27176-93-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 20-(nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol | 248-292-0 | 27177-03-3 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaotricosan-1-ol | 248-293-6 | 27177-05-5 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 29-(nonylphenoxy)-3,6,9,12,15,18,21,24,27-nonaonacosanol | 248-294-1 | 27177-08-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-(nonylphenoxy)ethanol | 248-762-5 | 27986-36-3 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-(4-nonylphenoxy)ethanol | - | 104-35-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)- | - | 20636-48-0 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |

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| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|---|-----------|--------------|---|-------------------|
| | 4-t-Nonylphenol-diethoxylate | - | 156609-10-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (EO = 10) | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (EO = 4) | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenol, ethoxylated (polymer) | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-{2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy}ethanol | - | 1119449-38-5 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol | - | 1119449-37-4 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Nonylphenolpolyglycoether | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 4-Nonylphenol, branched, ethoxylated | - | 127087-87-0 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Poly(oxy-1,2-ethanediyl), α -(nonylphenyl)- ω -hydroxy- | - | 9016-45-9 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | Isononylphenol, ethoxylated | - | 37205-87-1 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 20-(isononylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol | 265-785-6 | 65455-69-8 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |
| | 17-(4-nonylphenoxy)-3,6,9,12,15-pentaoxaheptadecan-1-ol | - | 34166-38-6 | Endocrine disrupting properties (Article 57(f) - environment) | 20-Jun-2013 |

| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|--|-----------|-----------|--|-------------------|
| 140 | Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 20-Jun-2013 |
| 141 | Cadmium | 231-152-8 | 7440-43-9 | Carcinogenic (Article 57a)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 20-Jun-2013 |
| 142 | Cadmium oxide | 215-146-2 | 1306-19-0 | Carcinogenic (Article 57a)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 20-Jun-2013 |
| 143 | Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | Toxic for reproduction (Article 57c) | 20-Jun-2013 |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 20-Jun-2013 |
| 145 | Cadmium sulphide | 215-147-8 | 1306-23-6 | Carcinogenic (Article 57a)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 16-Dec-2013 |
| 146 | Dihexyl phthalate | 201-559-5 | 84-75-3 | Toxic for reproduction (Article 57c) | 16-Dec-2013 |
| 147 | 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 | Carcinogenic (Article 57a) | 16-Dec-2013 |
| 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) | 217-710-3 | 1937-37-7 | Carcinogenic (Article 57a) | 16-Dec-2013 |



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| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|---|-----------|-------------|---|-------------------|
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 202-506-9 | 96-45-7 | Toxic for reproduction (Article 57c) | 16-Dec-2013 |
| 150 | Lead di(acetate) | 206-104-4 | 301-04-2 | Toxic for reproduction (Article 57c) | 16-Dec-2013 |
| 151 | Trixylyl phosphate | 246-677-8 | 25155-23-1 | Toxic for reproduction (Article 57c) | 16-Dec-2013 |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 271-093-5 | 68515-50-4 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| 153 | Cadmium chloride | 233-296-7 | 10108-64-2 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 16-Jun-2014 |
| 154 | Sodium perborate, perboric acid, sodium salt | - | - | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Perboric acid, sodium salt, tetrahydrate () | - | 37244-98-7 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Perboric acid (HBO(O ₂)), sodium salt, tetrahydrate | - | 10486-00-7 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Sodium perborate monohydrate | - | 10332-33-9 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Sodium perborate | 239-172-9 | 15120-21-5 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2) | - | 90568-23-3 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6) | - | 125022-34-6 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Perboric acid, sodium salt | 234-390-0 | 11138-47-9 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| | Perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt, trihydrate | - | 13517-20-9 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |

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|-----|--|-----------|------------------------|---|-------------------|
| 155 | Sodium peroxometaborate | 231-556-4 | 7632-04-4 | Toxic for reproduction (Article 57c) | 16-Jun-2014 |
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpen typhenol (UV-328) | 247-384-8 | 25973-55-1 | PBT (Article 57d)#vPvB (Article 57e) | 17-Dec-2014 |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 223-346-6 | 3846-71-7 | PBT (Article 57d)#vPvB (Article 57e) | 17-Dec-2014 |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | Toxic for reproduction (Article 57c) | 17-Dec-2014 |
| 159 | Cadmium fluoride | 232-222-0 | 7790-79-6 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 17-Dec-2014 |
| 160 | Cadmium sulphate | 233-331-6 | 10124-36-4, 31119-53-6 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 17-Dec-2014 |
| 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) | - | - | Toxic for reproduction (Article 57c) | 17-Dec-2014 |

| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
|-----|--|-----------|-------------|--------------------------------------|-------------------|
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters | - | - | Toxic for reproduction (Article 57c) | 15-Jun-2015 |
| | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters | 271-094-0 | 68515-51-5 | Toxic for reproduction (Article 57c) | 15-Jun-2015 |
| | 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters | 272-013-1 | 68648-93-1 | Toxic for reproduction (Article 57c) | 15-Jun-2015 |
| 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] | - | - | vPvB (Article 57e) | 15-Jun-2015 |
| | Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane | - | - | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)- | - | 117933-89-8 | vPvB (Article 57e) | 15-Jun-2015 |
| | 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane | - | - | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)- | - | 186309-28-4 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | - | 676367-05-8 | vPvB (Article 57e) | 15-Jun-2015 |



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| | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel- | - | 343934-04-3 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | - | 676367-09-2 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel- | - | 343934-05-4 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | - | 676367-04-7 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | - | 676367-08-1 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | - | 676367-03-6 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | - | 676367-07-0 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | - | 676367-02-5 | vPvB (Article 57e) | 15-Jun-2015 |
| | 1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | - | 676367-06-9 | vPvB (Article 57e) | 15-Jun-2015 |
| | Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane | 413-720-9 | - | vPvB (Article 57e) | 15-Jun-2015 |
| | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane | - | - | vPvB (Article 57e) | 15-Jun-2015 |
| 164 | 1,3-propanesultone | 214-317-9 | 1120-71-4 | Carcinogenic (Article 57a) | 17-Dec-2015 |

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|-----|--|-----------|------------|---|-------------------|
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 223-383-8 | 3864-99-1 | vPvB (Article 57e) | 17-Dec-2015 |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 253-037-1 | 36437-37-3 | vPvB (Article 57e) | 17-Dec-2015 |
| 167 | Nitrobenzene | 202-716-0 | 98-95-3 | Toxic for reproduction (Article 57c) | 17-Dec-2015 |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts | - | - | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 17-Dec-2015 |
| | Ammonium salts of perfluorononan-1-oic-acid | - | 4149-60-4 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 17-Dec-2015 |
| | Perfluorononan-1-oic-acid | 206-801-3 | 375-95-1 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 17-Dec-2015 |
| | Sodium salts of perfluorononan-1-oic-acid | - | 21049-39-8 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 17-Dec-2015 |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 200-028-5 | 50-32-8 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Toxic for reproduction (Article 57c)#PBT (Article 57d)#vPvB (Article 57e) | 20-Jun-2016 |
| 170 | 4,4'-isopropylidenediphenol | 201-245-8 | 80-05-7 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 12-Jan-2017 |
| 171 | 4-heptylphenol, branched and linear | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |

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|-----|-------------------------------------|-----------|-------------|---|-------------------|
| | Phenol, heptyl derivs. | 276-743-1 | 72624-02-3 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-heptylphenol | 217-862-0 | 1987-50-4 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2,3,3-trimethylbutan-2-yl)phenol | - | 72861-06-4 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2,4-dimethylpentan-2-yl)phenol | - | 33104-11-9 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3-ethylpentan-3-yl)phenol | - | 37872-24-5 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2-methylhexan-2-yl)phenol | - | 30784-31-7 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3,3-dimethylpentan-2-yl)phenol | - | 911371-06-7 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3-methylhexan-2-yl)phenol | - | 854904-93-1 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(4,4-dimethylpentan-2-yl)phenol | - | 911371-07-8 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(4-methylhexan-2-yl)phenol | - | 71945-81-8 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3-methylhexan-3-yl)phenol | - | 30784-32-8 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2,2-dimethylpentan-3-yl)phenol | - | 861010-65-3 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |

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|-----|---|--------|--------------|---|-------------------|
| | 4-(5-methylhexan-3-yl)phenol | - | 854904-92-0 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(heptan-3-yl)phenol | - | 6465-74-3 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(heptan-2-yl)phenol | - | 6863-24-7 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(heptan-4-yl)phenol | - | 6465-71-0 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3-ethylpentyl)phenol | - | 911370-98-4 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(3-methylhexyl)phenol | - | 102570-52-5 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(4-methylhexyl)phenol | - | 1139800-98-8 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(5-methylhexyl)phenol | - | 100532-36-3 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2,4-dimethylpentan-3-yl)phenol | - | 1824346-00-0 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | 4-(2,3-dimethylpentan-2-yl)phenol | - | 861011-60-1 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | Phenol, 4-(1-ethyl-1,2-dimethylpropyl)- | - | 30784-27-1 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| | Phenol, 4-tert-heptyl- | - | 288864-02-8 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |

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|--|--|--------------|--------------------|---|-------------------|
| | 4-(5-methylhexan-2-yl)phenol | - | 857629-71-1 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | - | - | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 12-Jan-2017 |
| | Nonadecafluorodecanoic acid | 206-400-3 | 335-76-2 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 12-Jan-2017 |
| | sodium nonadecafluorodecanoate | - | 3830-45-3 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 12-Jan-2017 |
| | Ammonium nonadecafluorodecanoate | 221-470-5 | 3108-42-7 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 12-Jan-2017 |
| 173 | p-(1,1-dimethylpropyl)phenol | 201-280-9 | 80-46-6 | Endocrine disrupting properties (Article 57(f) - environment) | 12-Jan-2017 |
| 174 | Perfluorohexane-1-sulphonic acid and its salts | - | - | vPvB (Article 57e) | 07-Jul-2017 |
| | ammonium perfluorohexane-1-sulphonate | 269-511-6 | 68259-08-5 | vPvB (Article 57e) | 07-Jul-2017 |
| | perfluorohexane-1-sulphonic acid | 206-587-1 | 355-46-4 | vPvB (Article 57e) | 07-Jul-2017 |
| | tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) | 274-462-9 | 70225-16-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | potassium perfluorohexane-1-sulphonate | 223-393-2 | 3871-99-6 | vPvB (Article 57e) | 07-Jul-2017 |
| | N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate | - | 108427-55-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 1000597-52-3 | vPvB (Article 57e) | 07-Jul-2017 |
| Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]] | - | 1310480-24-0 | vPvB (Article 57e) | 07-Jul-2017 | |

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|-----|--|--------|--------------|----------------------|-------------------|
| | nyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | | | | |
| | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 1310480-27-3 | vPvB (Article 57e) | 07-Jul-2017 |
| | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 1310480-28-4 | vPvB (Article 57e) | 07-Jul-2017 |
| | Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) | - | 1329995-45-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) | - | 1329995-69-8 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 144116-10-9 | vPvB (Article 57e) | 07-Jul-2017 |
| | Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 1462414-59-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 153443-35-7 | vPvB (Article 57e) | 07-Jul-2017 |
| | Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tride | - | 189274-31-5 | vPvB (Article 57e) | 07-Jul-2017 |



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| | cafluoro-1-hexanesulfonic acid (1:1) | | | | |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1) | - | 202189-84-2 | vPvB (Article 57e) | 07-Jul-2017 |
| | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 213740-81-9 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) | - | 341035-71-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 341548-85-4 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) | - | 350836-93-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) | - | 41184-65-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) | - | 41242-12-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2) | - | 421555-73-9 | vPvB (Article 57e) | 07-Jul-2017 |
| | Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) | - | 421555-74-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 425670-70-8 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) | - | 55120-77-9 | vPvB (Article 57e) | 07-Jul-2017 |

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| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt | - | 70136-72-0 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) | - | 72033-41-1 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt | - | 82382-12-5 | vPvB (Article 57e) | 07-Jul-2017 |
| | Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) | - | 866621-50-3 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 910606-39-2 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 911027-68-4 | vPvB (Article 57e) | 07-Jul-2017 |
| | Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate | - | 911027-69-5 | vPvB (Article 57e) | 07-Jul-2017 |
| | N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate | - | 108427-54-9 | vPvB (Article 57e) | 07-Jul-2017 |
| | Dibenzo[k,n][1,4,7,10,13]tetraoxathia cyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | - | 928049-42-7 | vPvB (Article 57e) | 07-Jul-2017 |

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| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) | - | 92011-17-1 | vPvB (Article 57e) | 07-Jul-2017 |
| | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) | - | 1187817-57-7 | vPvB (Article 57e) | 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"™) | - | - | vPvB (Article 57e) | 15-Jan-2018 |
| | (1S,2S,5R,6R,9S,10S,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 ⁶ ,9.0 ² ,13.0 ⁵ ,10]octadeca-7,15-diene | - | 135821-03-3 | vPvB (Article 57e) | 15-Jan-2018 |
| | 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 | 236-948-9 | 13560-89-9 | vPvB (Article 57e) | 15-Jan-2018 |
| 175 | (1S,2S,5S,6S,9R,10R,13R,14R)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 ⁶ ,9.0 ² ,13.0 ⁵ ,10]octadeca-7,15-diene | - | 135821-74-8 | vPvB (Article 57e) | 15-Jan-2018 |
| | rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene | - | - | vPvB (Article 57e) | 15-Jan-2018 |
| | rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene | - | - | vPvB (Article 57e) | 15-Jan-2018 |
| 176 | Benz[a]anthracene | 200-280-6 | 56-55-3 | Carcinogenic (Article 57a)#PBT (Article 57d)#vPvB (Article 57e) | 15-Jan-2018 |
| 177 | Cadmium carbonate | 208-168-9 | 513-78-0 | Carcinogenic (Article 57a)#Mutagenic (Article | 15-Jan-2018 |

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|-----|---|-----------|--------------|--|-------------------|
| | | | | 57b)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | |
| 178 | Cadmium hydroxide | 244-168-5 | 21041-95-2 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 15-Jan-2018 |
| 179 | Cadmium nitrate | 233-710-6 | 10325-94-7 | Carcinogenic (Article 57a)#Mutagenic (Article 57b)#Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | 15-Jan-2018 |
| 180 | Chrysene | 205-923-4 | 218-01-9 | Carcinogenic (Article 57a)#PBT (Article 57d)#vPvB (Article 57e) | 15-Jan-2018 |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 15-Jan-2018 |
| | Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. | - | 1471311-26-8 | Endocrine disrupting properties (Article 57(f) - environment) | 15-Jan-2018 |
| | Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine | 300-298-5 | 93925-00-9 | Endocrine disrupting properties (Article 57(f) - environment) | 15-Jan-2018 |
| 182 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride | 209-008-0 | 552-30-7 | Respiratory sensitising properties (Article 57(f) - human health) | 27-Jun-2018 |



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| 183 | Benzo[ghi]perylene | 205-883-8 | 191-24-2 | PBT (Article 57d)#vPvB (Article 57e) | 27-Jun-2018 |
| 184 | Decamethylcyclopentasiloxane | 208-764-9 | 541-02-6 | PBT (Article 57d)#vPvB (Article 57e) | 27-Jun-2018 |
| 185 | Dicyclohexyl phthalate | 201-545-9 | 84-61-7 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - human health) | 27-Jun-2018 |
| 186 | Disodium octaborate | 234-541-0 | 12008-41-2 | Toxic for reproduction (Article 57c) | 27-Jun-2018 |
| 187 | Dodecamethylcyclohexasiloxane | 208-762-8 | 540-97-6 | PBT (Article 57d)#vPvB (Article 57e) | 27-Jun-2018 |
| 188 | Ethylenediamine | 203-468-6 | 107-15-3 | Respiratory sensitising properties (Article 57(f) - human health) | 27-Jun-2018 |
| 189 | Lead | 231-100-4 | 7439-92-1 | Toxic for reproduction (Article 57c) | 27-Jun-2018 |
| 190 | Octamethylcyclotetrasiloxane | 209-136-7 | 556-67-2 | PBT (Article 57d)#vPvB (Article 57e) | 27-Jun-2018 |
| 191 | Terphenyl, hydrogenated | 262-967-7 | 61788-32-7 | vPvB (Article 57e) | 27-Jun-2018 |
| 192 | 1,7,7-trimethyl-3-(phenylmethylene)bi cyclo[2.2.1]heptan-2-one | 239-139-9 | 15087-24-8 | Endocrine disrupting properties (Article 57(f) - environment) | 15-Jan-2019 |
| 193 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 401-720-1 | 6807-17-6 | Toxic for reproduction (Article 57c) | 15-Jan-2019 |
| 194 | Benzo[k]fluoranthene | 205-916-6 | 207-08-9 | Carcinogenic (Article 57a)#PBT (Article 57d)#vPvB (Article 57e) | 15-Jan-2019 |
| 195 | Fluoranthene | 205-912-4 | 206-44-0 | PBT (Article 57d)#vPvB (Article 57e) | 15-Jan-2019 |
| 196 | Phenanthrene | 201-581-5 | 85-01-8 | vPvB (Article 57e) | 15-Jan-2019 |
| 197 | Pyrene | 204-927-3 | 129-00-0 | PBT (Article 57d)#vPvB (Article 57e) | 15-Jan-2019 |
| 198 | 2,3,3,3-tetrafluoro-2-(heptafluoroprop | - | - | Equivalent level of | 16-Jul-2019 |

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| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
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| | oxy)propionic acid, its salts and its acyl halides | | | concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | |
| | ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | - | 62037-80-3 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jul-2019 |
| | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride | 218-173-8 | 2062-98-8 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jul-2019 |
| | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid | 236-236-8 | 13252-13-6 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - | 16-Jul-2019 |

| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
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| | | | | human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | |
| | potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate | 266-578-3 | 67118-55-2 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jul-2019 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)- | - | 75579-39-4 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jul-2019 |
| | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)- | - | 75579-40-7 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having | 16-Jul-2019 |



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| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
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| | | | | probable serious effects to the environment (Article 57(f) - environment) | |
| 199 | 2-methoxyethyl acetate | 203-772-9 | 110-49-6 | Toxic for reproduction (Article 57c) | 16-Jul-2019 |
| 200 | 4-tert-butylphenol | 202-679-0 | 98-54-4 | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1 % w/w of 4-nonylphenol, branched and linear (4-NP) | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| | tris(4-nonylphenyl, branched) phosphite | - | - | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| | Phenol, p-sec-nonyl-, phosphite | - | 106599-06-8 | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| | tris(nonylphenyl) phosphite | 247-759-6 | 26523-78-4 | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| | Phenol, 4-nonyl-, phosphite (3:1) | - | 3050-88-2 | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| | Phenol, p-isononyl-, phosphite (3:1) | - | 31631-13-7 | Endocrine disrupting properties (Article 57(f) - environment) | 16-Jul-2019 |
| 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 404-360-3 | 119313-12-1 | Toxic for reproduction (Article 57c) | 16-Jan-2020 |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 400-600-6 | 71868-10-5 | Toxic for reproduction (Article 57c) | 16-Jan-2020 |
| 204 | Diisohexyl phthalate | 276-090-2 | 71850-09-4 | Toxic for reproduction (Article 57c) | 16-Jan-2020 |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts | - | - | Equivalent level of concern having probable | 16-Jan-2020 |

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| | | | | serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | |
| | N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate | - | 25628-08-4 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | magnesium perfluorobutanesulfonate | - | 507453-86-3 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | lithium perfluorobutanesulfonate | - | 131651-65-5 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) | 16-Jan-2020 |

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| | | | | health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | |
| | morpholinium perfluorobutanesulfonate | - | 503155-89-3 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid | 206-793-1 | 375-73-5 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate | 269-513-7 | 68259-10-9 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects | 16-Jan-2020 |

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| | | | | to the environment (Article 57(f) - environment) | |
| | tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate | 444-440-5 | 220689-12-3 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | dimethyl(phenyl)sulfanium perfluorobutanesulfonate | 452-310-4 | 220133-51-7 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | 1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate | 468-770-4 | - | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |

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|-----|---|-----------|-------------|---|-------------------|
| | Triphenylsulfanium perfluorobutane sulfonate | 478-340-8 | 144317-44-2 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate | 249-616-3 | 29420-49-3 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| | bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate | 432-660-4 | 194999-85-4 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 16-Jan-2020 |
| 206 | 1-vinylimidazole | 214-012-0 | 1072-63-5 | Toxic for reproduction (Article 57c) | 25-Jun-2020 |
| 207 | 2-methylimidazole | 211-765-7 | 693-98-1 | Toxic for reproduction | 25-Jun-2020 |

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| | | | | (Article 57c) | |
| 208 | Butyl 4-hydroxybenzoate | 202-318-7 | 94-26-8 | Endocrine disrupting properties (Article 57(f) - human health) | 25-Jun-2020 |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 245-152-0 | 22673-19-4 | Toxic for reproduction (Article 57c) | 25-Jun-2020 |
| 210 | Bis(2-(2-methoxyethoxy)ethyl)ether | 205-594-7 | 143-24-8 | Toxic for reproduction (Article 57c) | 19-Jan-2021 |
| 211 | 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 | - | - | Toxic for reproduction (Article 57c) | 19-Jan-2021 |
| | Stannane, dioctyl-, bis(coco acyloxy) derivs. | 293-901-5 | 91648-39-4 | Toxic for reproduction (Article 57c) | 19-Jan-2021 |
| | diocetyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. | - | - | Toxic for reproduction (Article 57c) | 19-Jan-2021 |
| | Diocetyl tin dilaurate | 222-883-3 | 3648-18-8 | Toxic for reproduction (Article 57c) | 19-Jan-2021 |
| 212 | 1,4-dioxane | 204-661-8 | 123-91-1 | Carcinogenic (Article 57a)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 08-Jul-2021 |
| 213 | 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tri bromo derivative/3-bromo-2,2-bis(bro | - | - | Carcinogenic (Article 57a) | 08-Jul-2021 |

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| | momethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA) | | | | |
| | 2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA) | 253-057-0 | 36483-57-5 | Carcinogenic (Article 57a) | 08-Jul-2021 |
| | 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) | - | 1522-92-5 | Carcinogenic (Article 57a) | 08-Jul-2021 |
| | 2,2-bis(bromomethyl)propane-1,3-diol (BMP) | 221-967-7 | 3296-90-0 | Carcinogenic (Article 57a) | 08-Jul-2021 |
| | 2,3-dibromo-1-propanol (2,3-DBPA) | 202-480-9 | 96-13-9 | Carcinogenic (Article 57a) | 08-Jul-2021 |
| 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers | - | - | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | 2-(4-tert-butylbenzyl)propionaldehyde | 201-289-8 | 80-54-6 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | (2S)-3-(4-tert-butylphenyl)-2-methylpropanal | - | 75166-30-2 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | (2R)-3-(4-tert-butylphenyl)-2-methylpropanal | - | 75166-31-3 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| 215 | 4,4'-(1-methylpropylidene)bisphenol | 201-025-1 | 77-40-7 | Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| 216 | glutaral | 203-856-5 | 111-30-8 | Respiratory sensitising properties (Article 57(f) - human health) | 08-Jul-2021 |
| 217 | Medium-chain chlorinated paraffins (MCCP) | - | - | PBT (Article 57d)#vPvB (Article 57e) | 08-Jul-2021 |
| | di-, tri- and tetrachlorotetradecane | - | - | PBT (Article 57d)#vPvB (Article 57e) | 08-Jul-2021 |
| | Alkanes, C14-17, chloro | 287-477-0 | 85535-85-9 | PBT (Article 57d)#vPvB (Article 57e) | 08-Jul-2021 |
| | Tetradecane, chloro derivs. | - | 198840-65-2 | PBT (Article 57d)#vPvB (Article 57e) | 08-Jul-2021 |

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| | Alkanes, C14-16, chloro | - | 1372804-76-6 | PBT (Article 57d)#vPvB (Article 57e) | 08-Jul-2021 |
| 218 | orthoboric acid, sodium salt | - | - | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | Boric acid, sodium salt | 215-604-1 | 1333-73-9 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | Orthoboric acid, sodium salt | 237-560-2 | 13840-56-7 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | boric acid (H3BO3), sodium salt, hydrate | - | 25747-83-5 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | Boric acid (H3BO3), disodium salt | - | 22454-04-2 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | boric acid (H3BO3), sodium salt (1:1) | - | 14890-53-0 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| | Trisodium orthoborate | 238-253-6 | 14312-40-4 | Toxic for reproduction (Article 57c) | 08-Jul-2021 |
| 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PD DP) | - | - | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| | 4-isododecylphenol | - | 27459-10-5 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| | Phenol, tetrapropylene- | - | 57427-55-1 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - | 08-Jul-2021 |

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| | | | | environment)#Endocrine disrupting properties (Article 57(f) - human health) | |
| | Phenol, 4-dodecyl, branched | - | 210555-94-5 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| | Phenol, (tetrapropenyl) derivatives | - | 74499-35-7 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| | Phenol, 4-isododecyl- | - | 27147-75-7 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |
| | Phenol, dodecyl-, branched | 310-154-3 | 121158-58-5 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 08-Jul-2021 |

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|-----|---|-----------|--------------|--|-------------------|
| 220 | (±)-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) | - | - | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one | 253-242-6 | 36861-47-9 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 1782069-81-1 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 95342-41-9 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 852541-30-1 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 852541-21-0 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 741687-98-9 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| | (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one | - | 852541-25-4 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2022 |
| 221 | 6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol | 204-327-1 | 119-47-1 | Toxic for reproduction (Article 57c) | 17-Jan-2022 |
| 222 | S-(tricyclo(5.2.1.0 ² .6)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 | PBT (Article 57d) | 17-Jan-2022 |
| 223 | tris(2-methoxyethoxy)vinylsilane | 213-934-0 | 1067-53-4 | Toxic for reproduction (Article 57c) | 17-Jan-2022 |
| 224 | N-(hydroxymethyl)acrylamide | 213-103-2 | 924-42-5 | Carcinogenic (Article 57a)#Mutagenic (Article | 10-Jun-2022 |

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| | | | | 57b) | |
| 225 | 1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] | 253-692-3 | 37853-59-1 | vPvB (Article 57e) | 17-Jan-2023 |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol | 201-236-9 | 79-94-7 | Carcinogenic (Article 57a) | 17-Jan-2023 |
| 227 | 4,4'-sulphonyldiphenol | 201-250-5 | 80-09-1 | Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - environment)#Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2023 |
| 228 | Barium diboron tetraoxide | 237-222-4 | 13701-59-2 | Toxic for reproduction (Article 57c) | 17-Jan-2023 |
| 229 | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof | - | - | vPvB (Article 57e) | 17-Jan-2023 |
| | Bis(2-ethylhexyl) tetrabromophthalate | 247-426-5 | 26040-51-7 | vPvB (Article 57e) | 17-Jan-2023 |
| 230 | Isobutyl 4-hydroxybenzoate | 224-208-8 | 4247-02-3 | Endocrine disrupting properties (Article 57(f) - human health) | 17-Jan-2023 |
| 231 | Melamine | 203-615-4 | 108-78-1 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 17-Jan-2023 |
| 232 | Perfluoroheptanoic acid and its salts | - | - | Toxic for reproduction (Article 57c)#PBT | 17-Jan-2023 |

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| | | | | (Article 57d)#vPvB (Article 57e)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | |
| | Sodium perfluoroheptanoate | 243-518-4 | 20109-59-5 | Toxic for reproduction (Article 57c)#PBT (Article 57d)#vPvB (Article 57e)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 17-Jan-2023 |
| | Ammonium perfluoroheptanoate | 228-098-2 | 6130-43-4 | Toxic for reproduction (Article 57c)#PBT (Article 57d)#vPvB (Article 57e)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having | 17-Jan-2023 |

| No. | Substance Name | EC No. | CAS No. | Reason for inclusion | Date of inclusion |
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| | | | | probable serious effects to the environment (Article 57(f) - environment) | |
| | Potassium perfluoroheptanoate | - | 21049-36-5 | Toxic for reproduction (Article 57c)#PBT (Article 57d)#vPvB (Article 57e)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 17-Jan-2023 |
| | Perfluoroheptanoic acid | 206-798-9 | 375-85-9 | Toxic for reproduction (Article 57c)#PBT (Article 57d)#vPvB (Article 57e)#Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)#Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | 17-Jan-2023 |
| 233 | 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)m | 473-390-7 | - | vPvB (Article 57e) | 17-Jan-2023 |

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| | orpholine | | | | |
| 234 | bis(4-chlorophenyl) sulphone | 201-247-9 | 80-07-9 | vPvB (Article 57e) | 14-Jun-2023 |
| 235 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 278-355-8 | 75980-60-8 | Toxic for reproduction (Article 57c) | 14-Jun-2023 |
| 236 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol | 700-960-7 | - | vPvB (Article 57e) | 23-Jan-2024 |
| | Phenol, methylstyrenated | 270-966-8 | 68512-30-1 | vPvB (Article 57e) | 23-Jan-2024 |
| 237 | Bumetrizole (UV-326) | 223-445-4 | 3896-11-5 | vPvB (Article 57e) | 23-Jan-2024 |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 438-340-0 | 119344-86-4 | Toxic for reproduction (Article 57c) | 23-Jan-2024 |
| 239 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) | 221-573-5 | 3147-75-9 | vPvB (Article 57e) | 23-Jan-2024 |
| 240 | 2,4,6-tri-tert-butylphenol | 211-989-5 | 732-26-3 | Toxic for reproduction (Article 57c)#PBT (Article 57d) | 23-Jan-2024 |
| 241 | Bis(α,α -dimethylbenzyl) peroxide | 201-279-3 | 80-43-3 | Toxic for reproduction (Article 57c) | 27-Jun-2024 |



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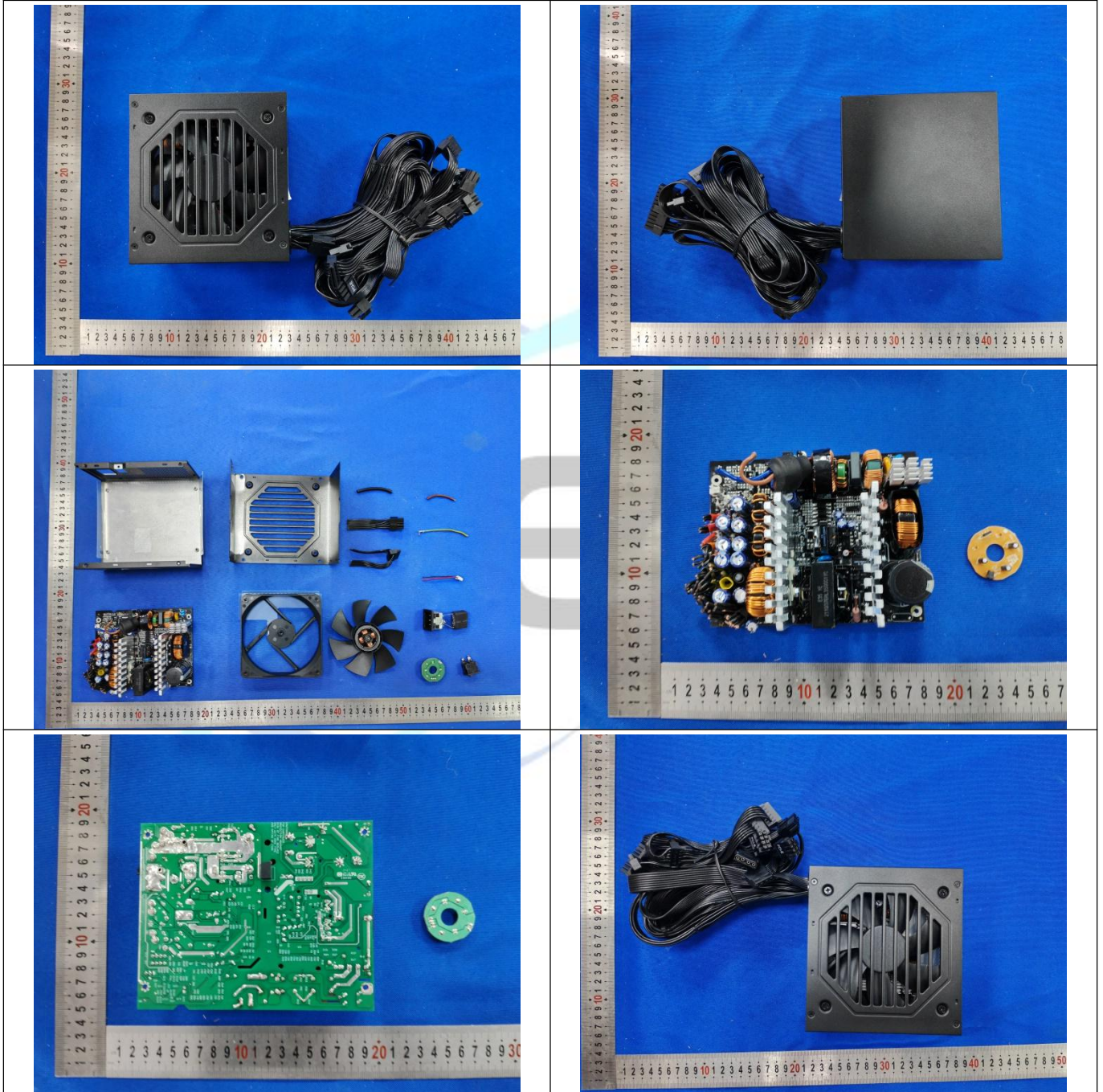
Test Sample:

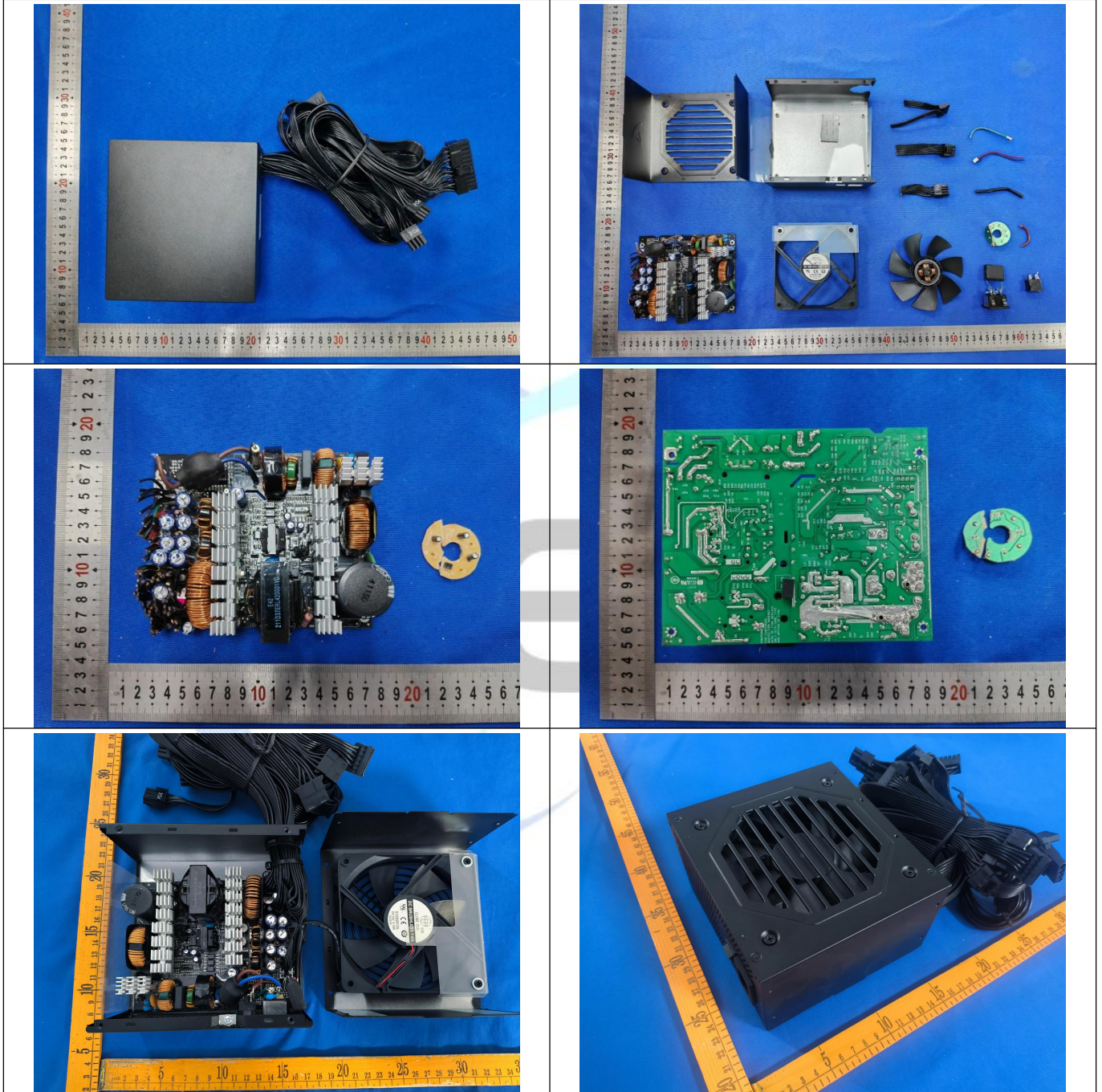
Sample Description:

| No. | Description | Name |
|-----|---------------------------------|--|
| A | All metal materials(mix) | Metal Case, Ferrous Metal Case, Wire Core, Enamelled Wire, Magnet, Blue Safety Capacitor, Magnetic Ring Inductance, Silver Metal, Electrolytic Capacitance, High-Frequency Transformer, High-Voltage Electrolytic Capacitor, Resistance, Capacitance, Triode, Diode, Soldering Tin, Electrolytic Capacitance |
| B | All non-metallic materials(mix) | Black Coating, Black Outer Leather, Black Wire Skin , Red Wire Skin , Yellow-Green Wire Skin , Black Plastic, PCB, Blue Wire Skin , Brown Wire Skin , Transparent Plastic, Black Wire Skin , Black Plastic, Green Wire Skin , Red Wire Skin , Black Outer Leather, Black Plastic |



Sample Photo:





*** End of Report ***