

# NPS

## REACH SVHC REPORT

**Report No.** : NPS2024040017  
**Applicant** : Zendure USA Inc.  
**Address** : 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501  
**Manufacturer** : ZENDURE TECHNOLOGY CO., LIMITED  
**Address** : RM 517, NEW CITY CENTRE, 2 LEI YUE MUN ROAD, KWUN TONG, KOWLOON.HK  
**Product Name** : Ace 1500 Off-grid Inverter  
**Model No.** : ZDACE1500

**The above sample(s) and information were provided by the Applicant.**

**Test Requested** : REACH SHVC240 Substance Assessment And Testing  
The SVHC substance content of the entire machine product is  $\leq 0.1\%$  (w/w)  
**Test Method** : NPS Internal REACH SVHC Substance Standard  
**Date of Test** : April 16, 2024 ~ April 25, 2024  
**Date of issue** : May 30, 2024  
**Results** : Refer to attachment  
**Conclusion:** : As specified by client, SVHC screening is performed according to: Two hundred and forty (240) Substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemical Agency (ECHA) on and before 23 January 2024 regarding regulation (EC) No. 1907/2006 concerning the REACH. According to the specified scope and analytical techniques, concentrations of SVHC(240 SVHC) are less than 0.1%(w/w) in the sample.

Reviewed by:  
Star Zhong  
(Signatory)



### NPS Test Laboratory(DongGuan)Co.,LTD

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## TEST SUMMARY

Test item	Test Requirement	Test Method	Limit%(w/w)	Result
REACH SVHC 240Type Substances	NPS Internal REACH SVHC Substance Standard	EPA 3052 IEC/EN 62321 EPA 3540C AfPS GS 2019:01 PAK NPS Internal REACH SVHC Substance Standard	0.1% (1000ppm)	Pass

EU REACH Regulations And Directives Source

[http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/chemical-substances-reach/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/chemical-substances-reach/index_en.htm)

**Remark:**The REACH Appendix XIV Authorization List is a category of toxic substances screened from the SVHC candidate list. The REACH regulation defines SVHC as a candidate for authorized substances (REACH Annex XIV), so the ECHA official SVHC list is referred to as the candidate list. Authorized substances officially published in the List of Authorized substances are required to be included in Annex XIV of REACH.

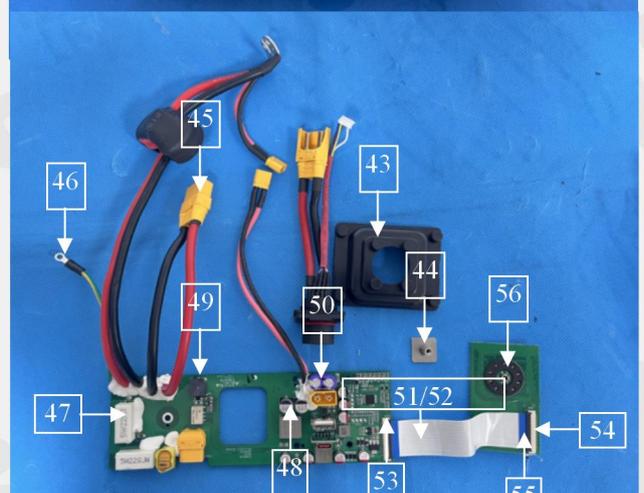
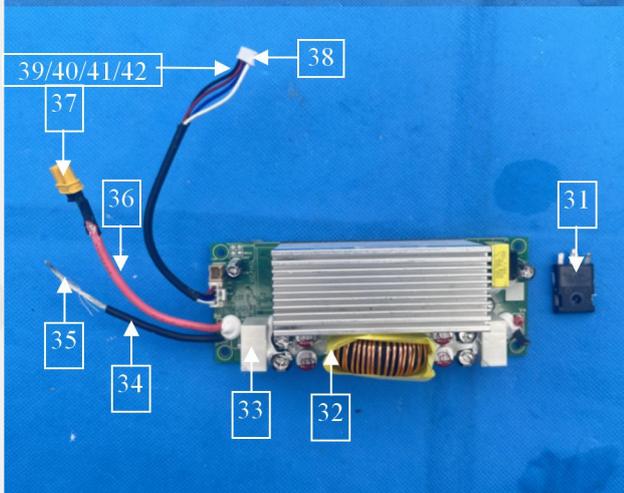
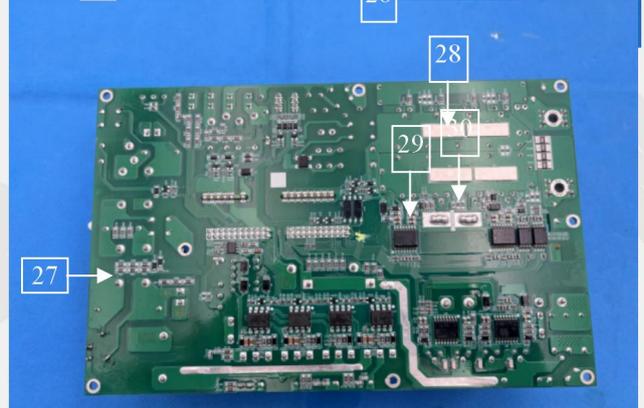
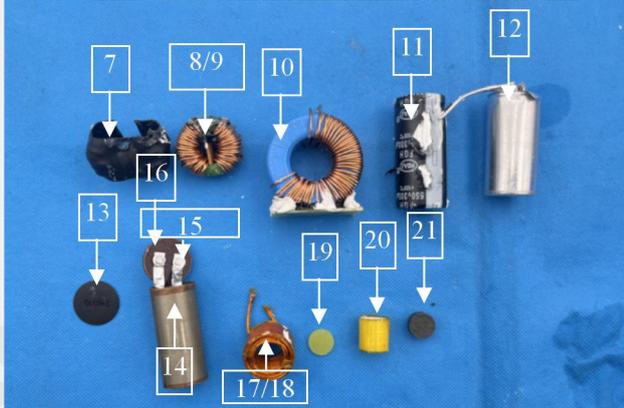
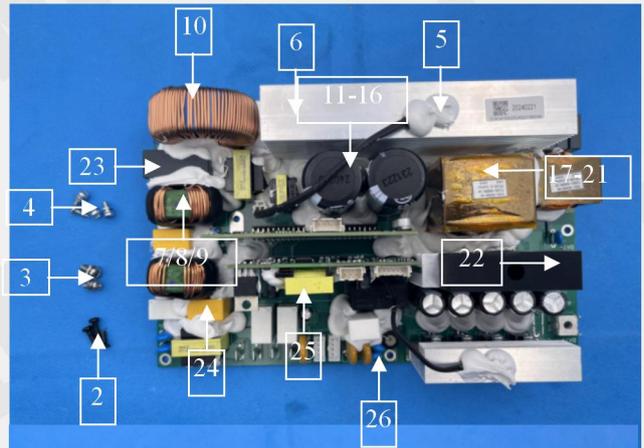
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### Photo(s) Of the Sample(s)

Test sample name	NPS Job Number	Total weight of sample(Kg)
1#	NPS2024040017	4.0Kg
Ace 1500 Off-grid Inverter		4.0Kg

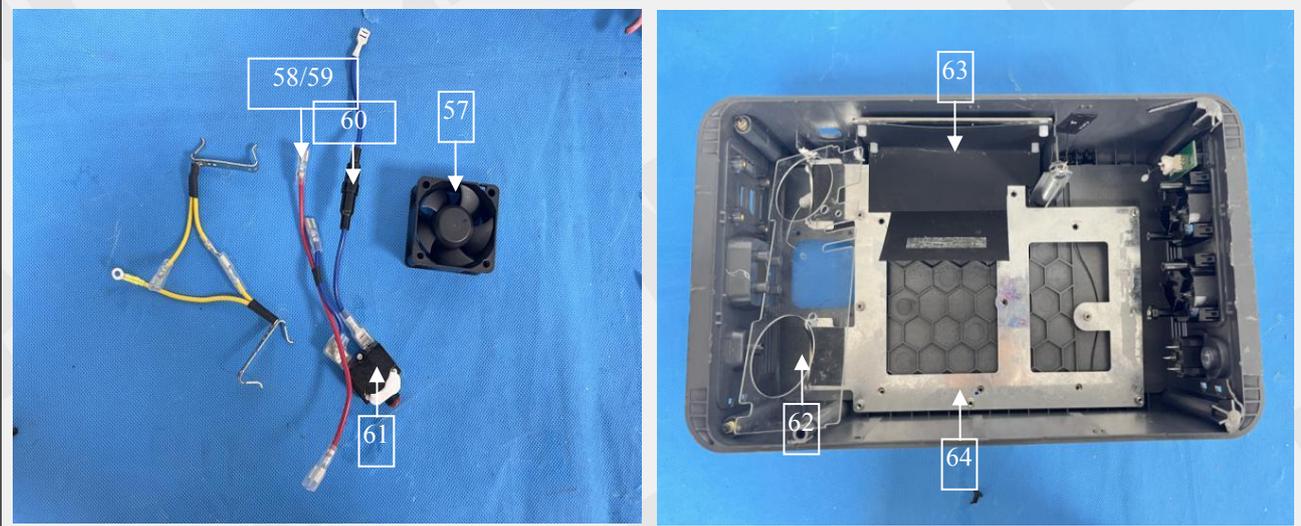


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### Photo(s) Of the Sample(s)



### Test Model 1#

Take photos of samples for testing and evaluation

### Remarks:

- (1) 1 ppm = 1 mg/kg = 0.0001%.
- (2) RL = Report Limit.
- (3) ND = Not Detected ( < RL).
- (4) "N/A" = Not Applicable.

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## Sample Description

Sample No	Sample Description
1	Black shell plastic
2	Black screws
3	White large screw
4	White small screw
5	White soft plastic
6	Cuboid white metal
7	Black soft plastic
8	Green Plastic
9	Coarse copper wire
10	Blue plastic
11	Black rubber plastic
12	Capacitor Cases
13	Black plastic patch
14	Dark yellow plastic
15	Small iron sheet
16	Brown circular plastic
17	Yellow adhesive plastic
18	Red copper wire
19	Yellow circular plastic
20	Yellow adhesive tape
21	Black cylindrical metal
22	Black soft plastic
23	Black hard plastic
24	Yellow plastic capacitor
25	Yellow plastic resistor
26	Resistor blue plastic

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27	PCB board
28	Rectangular iron sheet
29	Small component plastic
30	Soldering tin
31	Large component plastic
32	Yellow large paper
33	White hard shell plastic
34	Black thick line
35	Silver white copper wire
36	Pink thick line
37	Yellow plastic interface
38	White plastic patch socket
39	White thin line
40	Blue thin line
41	Red thin line
42	Black thin line
43	Black plastic hard shell
44	Square iron sheet
45	Yellow hard plastic
46	Single ear iron plate
47	Cuboid white plastic
48	Small cube black plastic
49	Small cube black metal
50	Purple plastic
51	USB socket iron plate
52	USB socket white plastic
53	Grey white plastic
54	White flexible ribbon cable
55	Blue flexible ribbon cable

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56	Circular rubber gasket
57	Black plastic small fan
58	Terminal rubber sleeve
59	Terminal iron sheet
60	Black plastic safety tube
61	Black plastic protector
62	Glass sheets
63	Black plastic insulation sheet
64	Rack iron sheet

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Test No.	Sample Description
A1(metal)	2+3+4+6+9+12+15+18+21+28
A2(metal)	30+35+44+46+49+51+59+64
B1(Nonmetal)	1+5+7+8+10+11+13+14+16+17+19
B2(Nonmetal)	20+22+23+24+25+26+27+29+31+32+33
B3(Nonmetal)	34+36+37+38+39+40+41+42+43+45+47+48
B4(Nonmetal)	50+52+53+54+55+56+57+58+60+61+62+63

## Test Result(s)

No.	Substance Name (s)	CAS No.	Concentration %(w/w)		Report Limit(%)
			A1	A2	
185	Lead(Pb)	7439-92-1	N.D.	<0.02	--
--	All tested SVHC (See the candidate list)	--	N.D.	N.D.	--

No.	Substance Name (s)	CAS No.	Concentration %(w/w)				Report Limit(%)
			B1	B2	B3	B4	
--	All tested SVHC (See the candidate list)	--	N.D.	N.D.	N.D.	N.D.	--

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## REACH-SVHC Substances Test Item

### 1 The first fifteen substances of SVHC (Released in Oct, 2008)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
1	4,4'-Diaminodiphenylmethane	101-77-9	PBT	0.020	0.1
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	Carcinogen Cat.1	0.020	0.1
3	Short Chain Chlorinated Paraffins	85535-84-8	Carcinogen Cat.1	0.020	0.1
4	Anthracene	120-12-7	Carcinogen Cat.1	0.020	0.1
5	Benzyl butyl phthalate (BBP)	85-68-7	Toxic to Reproduction Cat.1;Carcinogen Cat.1	0.020	0.1
6	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	Carcinogen Cat.2	0.020	0.1
7	Bis(tributyltin)oxide	56-35-9	Carcinogen Cat.2; Mutagen Cat.2; Toxic to Reproduction	0.020	0.1
8	Cobalt dichloride	7646-79-9	PBT	0.020	0.1
9	Diarsenic pentoxide	1303-28-2	Carcinogen Cat.2	0.020	0.1
10	Diarsenic trioxide	1327-53-3	Toxic to Reproduction Cat.2	0.020	0.1
11	Dibutyl phthalate(DBP)	84-74-2	Toxic to Reproduction Cat.2	0.020	0.1
12	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4 3194-55-6 (134237-50-6 134237-51-7 134237-52-8	VPvB	0.020	0.1
13	Lead hydrogen arsenate	7784-40-9	Toxic to Reproduction Cat.2	0.020	0.1
14	Sodium dichromate	7789-12-0& 10588-01-9	PBT	0.020	0.1
15	Triethyl arsenate	15606-95-8	PBT; vPvB	0.020	0.1

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## 2 The second thirteen substances of SVHC (Released in Jan, 2010 and Mar, 2010)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
16	2,4-Dinitrotoluene	121-14-2	PBT	0.020	0.1
17	Anthracene oil	90640-80-5	PBT	0.020	0.1
18	Anthracene oil, anthracene paste	90640-81-6	PBT	0.020	0.1
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	PBT	0.020	0.1
20	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	PBT	0.020	0.1
21	Anthracene oil, anthracene-low	90640-82-7	PBT	0.020	0.1
22	Diisobutyl phthalate (DIBP)	84-69-5	Mutagen Category 2	0.020	0.1
23	Lead chromate	7758-97-6	Carcinogen Cat.2	0.020	0.1
24	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	Toxic to Reproduction Cat.2	0.020	0.1
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	Toxic to Reproduction Cat.1; Carcinogen Cat.2	0.020	0.1
26	coal tar pitch, high temperature	65996-93-2	Toxic to Reproduction Cat.1; Carcinogen Cat.2	0.020	0.1
27	tris(2-chloroethyl)phosphate	115-96-8	Toxic to Reproduction Cat.1; Carcinogen Cat.2	0.020	0.1
28	Acrylamide	79-06-1	Toxic to Reproduction Cat.2	0.020	0.1

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### 3 The third eight substances of SVHC (Released in Jun, 2010)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
29	Ammonium dichromate	7789-09-5	Carcinogen Cat.2	0.020	0.1
30	Boric acid	10043-35-3 11113-50-1	Toxic to Reproduction Cat.2	0.020	0.1
31	Disodium tetraborate, anhydrous	1330-43-41 2179-04-3 1303-96-4	Toxic to Reproduction Cat.2	0.020	0.1
32	Potassium chromate	7789-00-6	Toxic to Reproduction Cat.2	0.020	0.1
33	Potassium dichromate	7778-50-9	Carcinogen Cat.2; Mutagen Category 2; Toxic to Reproduction Cat.2	0.020	0.1
34	Sodium chromate	7775-11-3	Carcinogen Cat.2; Mutagen Category 2	0.020	0.1
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Carcinogen Cat.2; Mutagen Category 2; Toxic to Reproduction Cat.2	0.020	0.1
36	Trichloroethylene	79-01-6	Carcinogen Cat.2; Mutagen Category 2; Toxic to Reproduction Cat.2	0.020	0.1

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## 4 The fourth eight substances of SVHC (Released in Dec, 2010)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
37	2-Ethoxyethanol	110-80-5	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)	0.020	0.1
38	2-Methoxyethanol	109-86-4	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)	0.020	0.1
39	Acids generated from chromium trioxide and their oligomers (Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid)	7738-94-5 13530-68-2	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)	0.020	0.1
40	Chromium trioxide	1333-82-0	Carcinogenic and toxic to reproduction in accordance with REACH Art. 57(a) and 57(c)	0.020	0.1
41	Cobalt (II) carbonate	513-79-1	Toxic to reproduction in accordance with REACH Art. 57(c)	0.020	0.1
42	Cobalt (II) diacetate	71-48-7	Toxic to reproduction in accordance with REACH Art. 57(c)	0.020	0.1
43	Cobalt (II) dinitrate	10141-05-6	Carcinogenic and mutagenic in accordance with REACH Art. 57(a) and 57(b)	0.020	0.1
44	Cobalt (II) sulphate	10124-43-3	Carcinogenic in accordance with REACH Art.57(a)	0.020	0.1

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**5 The fifth seven substances of SVHC (Released in Jun, 2011)**

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
45	1,2,3-trichloropropane	96-18-4	Toxic to reproduction,cat. 2	0.020	0.1
46	1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters, C7-rich	71888-89-6	Carcinogen, cat. 2	0.020	0.1
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	Toxic to reproduction,cat. 2	0.020	0.1
48	1-methyl-2-pyrrolidone	872-50-4	Carcinogen, cat. 2	0.020	0.1
49	2-ethoxyethyl acetate	111-15-9	Toxic to reproduction,cat. 2	0.020	0.1
50	Hydrazine	7803-57-8 302-01-2	Toxic to reproduction,cat. 2	0.020	0.1
51	Strontium chromate	7789-6-2	Toxic to reproduction,cat. 2	0.020	0.1

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## 6 The sixth twenty substances of SVHC (Released in Dec, 2011)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
52	1,2-Dichloroethane	107-06-2	Carcinogen Cat.2	0.020	0.1
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	Carcinogen Cat.2	0.020	0.1
54	2-Methoxyaniline; o-Anisidine	90-04-0	Carcinogen Cat.2	0.020	0.1
55	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	Carcinogen Cat.2	0.020	0.1
56	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	Carcinogen Cat.2	0.020	0.1
57	Arsenic acid	7778-39-4	Carcinogen Cat.2	0.020	0.1
58	Bis(2-methoxyethyl) ether	111-96-6	Toxic to reproduction, cat. 2	0.020	0.1
59	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	Carcinogen Cat.2	0.020	0.1
60	Calcium arsenate	7778-44-1	Carcinogen Cat.2; Toxic to reproduction, cat. 2	0.020	0.1
61	Dichromium tris(chromate)	24613-89-6	Carcinogen Cat.2	0.020	0.1
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	Toxic to reproduction, cat. 2	0.020	0.1

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No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
63	Lead diazide;Lead azide	13424-46-9	Carcinogen Cat.2	0.020	0.1
64	Lead dipicrate	6477-64-1	Carcinogen Cat.2	0.020	0.1
65	Lead styphnate	15245-44-0	arcinogen Cat.2; Toxic to reproduction,cat.2	0.020	0.1
66	N,N-dimethylacetamide (DMAC)	127-19-5	Toxic to reproduction,cat.2	0.020	0.1
67	Pentazinc chromate octahydroxide	49663-84-5	Carcinogen Cat.2	0.020	0.1
68	Phenolphthalein	77-09-8	Carcinogen Cat.2	0.020	0.1
69	Potassium hydroxyoctaoxodi-zincatedichromate	11103-86-9	Toxic to reproduction,cat.2	0.020	0.1
70	Trilead diarsenate	3687-31-8	Toxic to reproduction,cat.2	0.020	0.1
71	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	Toxic to reproduction,cat.2	0.020	0.1

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## 7 The seventh thirteen substances of SVHC (Released in Jun, 2012)

No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Toxic to reproduction,cat. 2	0.020	0.1
73	1,2-dimethoxyethane;ethylene glycol dimethyl ether (EGDME)	110-71-4	Toxic to reproduction,cat. 2	0.020	0.1
74	TGIC(1,3,5-tris(oxiranylmethyl) -1,3,5-triazine -2,4,6(1H,3H,5H)-trione)	2451-62-9	Toxic to reproduction,cat. 2	0.020	0.1
75	<sup>β</sup> -TGIC(1,3,5-tris[(2S and 2R)-2,3-ep oxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione)	59653-74-6	Toxic to reproduction,cat. 2	0.020	0.1
76	4,4'-bis(dimethylamino)-4''-(methyla mino)trityl alcohol	561-41-1	Toxic to reproduction,cat. 2	0.020	0.1
77	bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Mutagen Cat.2	0.020	0.1
78	4-[4,4'-bis(dimethylamino)benzhydr ylidene]cyclohexa-2,5-dien-1-yliden e]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	Mutagen Cat.2	0.020	0.1
79	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylen e]cyclohexa-2,5-dien-1-ylidene]dim ethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	Carcinogen Cat.2	0.020	0.1
80	Diboron trioxide	1303-86-2	Carcinogen Cat.2	0.020	0.1
81	Formamide	75-12-7	Carcinogen Cat.2	0.020	0.1
82	Lead(II)bis(methanesulfonate)	17570-76-2	Carcinogen Cat.2	0.020	0.1
83	N,N,N',N'-tetramethyl-4,4'-methylen edianiline (Michler's base)	101-61-1	Carcinogen Cat.2	0.020	0.1
84	<sup>α</sup> , <sup>α</sup> -Bis[4-(dimethylamino) phenyl]-4 (phenylamino)naphthalene-1-meth anol (C.I. Solvent Blue 4)	6786-83-0	Carcinogen Cat.2	0.020	0.1

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## 8 The eighth fifty-four substances of SVHC (Released in Dec, 2012)

No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
85	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	PBT; vPvB	0.020	0.1
86	1,2-Diethoxyethane	629-14-1	vPvB	0.020	0.1
87	1-bromopropane; n-propyl bromide	106-94-5	vPvB	0.020	0.1
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	vPvB	0.020	0.1
89	4,4'-methylenedi-o-toluidine	838-88-0	vPvB	0.020	0.1
90	4,4'-oxydianiline and its salts	101-80-4	Equivalent level of concern having probable serious effects to human health	0.020	0.1
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	Equivalent level of concern having probable serious effects to human health	0.020	0.1
92	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	Equivalent level of concern having probable serious effects to human health	0.020	0.1
93	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	Equivalent level of concern having probable serious effects to the environment	0.020	0.1
94	4-Nonylphenol, branched and linear-substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	Equivalent level of concern having probable serious effects to the environment	0.020	0.1
95	6-methoxy-m-toluidine (p-cresidine)	120-71-8	Toxic for reproduction	0.020	0.1
96	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	Toxic for reproduction	0.020	0.1
97	Acetic acid, lead salt, basic	51404-69-4	Toxic for reproduction	0.020	0.1
98	Biphenyl-4-ylamine	92-67-1	Toxic for reproduction	0.020	0.1
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	Toxic for reproduction	0.020	0.1

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No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
100	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	Toxic for reproduction	0.020	0.1
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Toxic for reproduction	0.020	0.1
102	Dibutyltin dichloride (DBT)	683-18-1	Toxic for reproduction	0.020	0.1
103	Diethyl sulphate	64-67-5	Toxic for reproduction	0.020	0.1
104	Diisopentylphthalate (DIPP)	605-50-5	Toxic for reproduction	0.020	0.1
105	Dimethyl sulphate	77-78-1	Toxic for reproduction	0.020	0.1
106	Dinoseb	88-85-7	Toxic for reproduction	0.020	0.1
107	Dioxobis(stearato)trilead	12578-12-0	Carcinogenic; Mutagenic	0.020	0.1
108	Fatty acids, C16-18, lead salts	91031-62-8	Toxic for reproduction	0.020	0.1
109	Furan	110-00-9	Toxic for reproduction	0.020	0.1
110	Henicosaflluoroundecanoic acid	2058-94-8	Toxic for reproduction	0.020	0.1
111	Heptacosaflluorotetradecanoic acid	376-06-7	Toxic for reproduction	0.020	0.1
112	Hexahydromethylphthalic anhydride,Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Toxic for reproduction	0.020	0.1
113	Lead bis(tetrafluoroborate)	13814-96-5	Toxic for reproduction	0.020	0.1
114	Lead cyanamidate	20837-86-9	Toxic for reproduction	0.020	0.1
115	Lead dinitrate	10099-74-8	Toxic for reproduction	0.020	0.1
116	Lead oxide (lead monoxide)	1317-36-8	Toxic for reproduction	0.020	0.1
117	Lead oxide sulfate (basic lead sulfate)	12036-76-9	Toxic for reproduction	0.020	0.1
118	Lead titanium trioxide	12060-00-3	Toxic for reproduction	0.020	0.1

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No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
119	Lead Titanium Zirconium Oxide	12626-81-2	Toxic for reproduction	0.020	0.1
120	Methoxy acetic acid	625-45-6	Toxic for reproduction	0.020	0.1
121	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	Toxic for reproduction	0.020	0.1
122	N,N-dimethylformamide; dimethyl formamide	68-12-2	Toxic for reproduction	0.020	0.1
123	N-methylacetamide	79-16-3	Toxic for reproduction	0.020	0.1
124	N-pentyl-isopentylphthalate	-	Toxic for reproduction	0.020	0.1
125	o-aminoazotoluene	97-56-3	Carcinogenic	0.020	0.1
126	o-Toluidine; 2-Aminotoluene	95-53-4	Carcinogenic; Mutagenic	0.020	0.1
127	Lead tetroxide (orange lead)	1314-41-6	Carcinogenic	0.020	0.1
128	Pentacosafuorotridecanoic acid	72629-94- 8	Toxic for reproduction	0.020	0.1
129	Pentalead tetraoxide sulphate	12065-90-6	Toxic for reproduction	0.020	0.1
130	Pyrochlore, antimony lead yellow	8012-00-8	Carcinogenic	0.020	0.1
131	Silicic acid, barium salt, lead-doped	68784-75-8	Carcinogenic; Mutagenic	0.020	0.1
132	Silicic acid, lead salt	11120-22-2	Carcinogenic	0.020	0.1
133	Sulfurous acid, lead salt, dibasic	62229-08-7	Carcinogenic	0.020	0.1
134	Tetraethyllead	78-00-2	Carcinogenic	0.020	0.1
135	Tetralead trioxide sulphate	12202-17-4	Carcinogenic	0.020	0.1
136	Tricosafuorododecanoic acid	307-55-1	Carcinogenic	0.020	0.1
137	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	Carcinogenic	0.020	0.1
138	Trilead dioxide phosphonate	12141-20- 7	Toxic for reproduction	0.020	0.1

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## 9 The ninth six substances of SVHC (Released in Jun, 2013)

No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
139	4-Nonylphenol, branched and linear, ethoxylated[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	Carcinogenic (Article 57a);Equivalent level of concern having probable serious effects to human health (Article 57 f)	0.020	0.1
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Carcinogenic (Article 57a);Equivalent level of concern having probable serious effects to human health (Article 57 f)	0.020	0.1
141	Cadmium	7440-43-9	Toxic for reproduction (Article 57c)	0.020	0.1
142	Cadmium oxide	1306-19-0	Toxic for reproduction (Article 57c)	0.020	0.1
143	Dipentyl phthalate (DPP)	131-18-0	Toxic for reproduction (Article 57c); PBT (Article 57 d)	0.020	0.1
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Toxic for reproduction (Article 57c); PBT (Article 57 d)	0.020	0.1

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## 10 The tenth seven substances of SVHC (Released in Dec, 2013)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
145	Cadmium sulfide	1306-23-6	Carcinogenic (Article 57a);Equivalent level of concern having probable serious effects to human health (Article 57 f)	0.020	0.1
146	Di-n-hexylphthalate (DNHP)	84-75-3	Carcinogenic	0.020	0.1
147	CI Direct red 28	573-58-0	Toxic for reproduction (Article 57c)	0.020	0.1
148	CI Direct black 38	1937-37-7	Toxic for reproduction (Article 57c)	0.020	0.1
149	Ethylene thiourea	96-45-7	Toxic for reproduction (Article 57c)	0.020	0.1
150	Lead acetate	301-04-2	Carcinogenic	0.020	0.1
151	Phosphoric acid three (dimethylbenzene) esters	25155-23-1	Toxic for reproduction (Article 57c)	0.020	0.1

## 11 The eleventh four substances of SVHC (Released in Jun, 2014)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Carcinogenic (Article 57a);Equivalent level of concern having probable serious effects to human health (Article 57 f)	0.020	0.1
153	Cadmium chloride	10108-64-2	Toxic for reproduction (Article 57c)	0.020	0.1
154	Sodium perborate; perboric acid, sodium salt	-	Toxic for reproduction (Article 57c)	0.020	0.1
155	Sodium peroxometaborate	7632-04-4	Toxic for reproduction (Article 57c)	0.020	0.1

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## 12 The twelfth Eight substances of SVHC (Released in Oct, 2014)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Durability bioaccumulation toxicity High durability and high biological accumulation	0.020	0.1
157	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	3846-71-7	Durability bioaccumulation toxicity High durability and high biological accumulation	0.020	0.1
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	Toxic for reproduction (Article 57c)	0.020	0.1
159	Cadmium fluoride	7790-79-6	Toxic for reproduction (Article 57c)	0.020	0.1
160	Cadmium sulphate	10124-36-4; 31119-53-6	carcinogenic deformity Toxic for reproduction Can seriously affect human health and the environment	0.020	0.1
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)	-	carcinogenic deformity Toxic for reproduction Can seriously affect human health and the environment	0.020	0.1

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### 13 The Thirteen Two Substances of SVHC (Released in June, 2015)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	Toxic For reproduction (Article 57c)	0.020	0.1
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1]; 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]; [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	Toxic For reproduction (Article 57c)	0.020	0.1

### 14 The Fourteen Five Substances of SVHC (Released in Dec, 2015)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
164	1,3-propanesultone	1120-71-4	Carcinogenic (Article 57a)	0.020	0.1
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	vPvB (Article 57 e)	0.020	0.1
165	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	vPvB (Article 57 e)	0.020	0.1
167	Nitrobenzene	98-95-3	Toxic for reproduction (Article 57c)	0.020	0.1
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9)-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	Toxic for reproduction (Article 57c) PBT (Article 57 d)	0.020	0.1

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## 15 The Fifteen One Substances of SVHC(Released in June, 2016)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
169	Benzo(a)pyrene	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)PBT (Article 57d)vPvB (Article 57e)	0.020	0.1

## 16 The Sixteen Substances of SVHC (Released in April, 2017)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	Toxic for reproduction (Article 57c) (Article 57F)	0.020	0.1
171	p-(1,1-dimethylpropyl)phenol	-	(Article 57c)PBT (Article 57d)	0.020	0.1
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	80-46-6	Toxic for reproduction (Article 57c) PBT (Article 57d)	0.020	0.1
173	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7covalently bound predominantly in position 4 to phenol,covering also UVCB- and well-defined substances whichinclude any of the individual isomers or a combination thereof]	-	Endocrine disrupting properties (Article 57(f) - environment)	0.020	0.1

## 17 The Seventeen Substances of SVHC (Released in July, 2017)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
174	Perfluorohexane-1-sulphonic acid and its salts	355-46-4	vPvB (Article 57e)	0.020	0.1

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## 18 The Eighteen Substances of SVHC (Released in April, 2018)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
175	Benz[a]anthracene	56-55-3 1718-53-2	Toxic for reproduction (Article 57a)	0.020	0.1
176	Cadmium carbonate	513-78-0	Toxic for reproduction (Article 57e)	0.020	0.1
177	Cadmium hydroxide	21041-95-2	Toxic for reproduction (Article 57b)	0.020	0.1
178	Cadmium nitrate	10022-68-1 10325-94-7	Toxic for reproduction (Article 57c)	0.020	0.1
179	Chrysene	218-01-9 1719-03-5	Toxic for reproduction (Article 57c)	0.020	0.1
180	Dodecachloropentacyclo[12.2.1.1 6,9.02,13.05,10]octadeca-7,15-di ene ("Dechlorane Plus™")	-	Toxic for reproduction (Article 57c)	0.020	0.1
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	Toxic for reproduction (Article 57c)	0.020	0.1

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## 19 The Nineteen Substances of SVHC (Released in June, 2018)

No.	Test Item	CAS No.	SVHC classification	RL %(w/w)	Limit %(w/w)
182	Terphenyl, hydrogenated	61788-32-7	vPvB (Article 57e)	0.020	0.1
183	Octamethylcyclotetrasiloxane (D4)	556-67-2	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
184	Lead	7439-92-1	Toxic for reproduction (Article 57c)	0.020	0.1
185	Ethylenediamine EDA	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)	0.020	0.1
186	Dodecamethylcyclohexasiloxane D6	540-97-6	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
187	Disodium octaborate	12008-41-2	Toxic for reproduction (Article 57c)	0.020	0.1
188	Dicyclohexyl phthalate DCHP	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	0.020	0.1
189	Decamethylcyclopentasiloxane D5	541-02-6	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
190	Benzo[ghi]perylene	191-24-2	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)	0.020	0.1

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## 20 The Twenty Substances of SVHC (Released in Jan, 2019)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
192	1,7,7-trimethyl-3-(phenylmethylen e)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)	0.020	0.1
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Toxic for reproduction (Article 57c)	0.020	0.1
194	Benzo[k]fluoranthene	207-08-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
195	Fluoranthene	206-44-0	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1
196	Phenanthrene	85-01-8	vPvB (Article 57e)	0.020	0.1
197	Pyrene	129-00-0	PBT (Article 57d) vPvB (Article 57e)	0.020	0.1

## 21 The Twenty One Substances of SVHC (Released in July, 2019)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
198	2-methoxyethyl acetate	110-49-6	Toxic for reproduction (Article 57 (c))	0.020	0.1
199	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)	0.020	0.1
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)	0.020	0.1
201	4-tert-butylphenol	98-54-4	Endocrine disrupting properties (Article 57(f) – environment)	0.020	0.1

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## 22 The Twenty Two Substances of SVHC (Released in Jan, 2020)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Toxic for reproduction (Article 57 (c))	0.020	0.1
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Toxic for reproduction (Article 57 (c))	0.020	0.1
204	Diisohexyl phthalate	71850-09-4	Toxic for reproduction (Article 57 (c))	0.020	0.1
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)	0.020	0.1

## 23 The Twenty Three Substances of SVHC (Released in June, 2020)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
206	1-vinylimidazole	1072-63-5	Toxic for reproduction (Article 57 (c))	0.020	0.1
207	2-methylimidazole	693-98-1	Toxic for reproduction (Article 57 (c))	0.020	0.1
208	Dibutylbis(pentane-2,4-dionato-O, O')tin	22673-19-4	Toxic for reproduction (Article 57 (c))	0.020	0.1
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	Endocrine disrupting properties - human health (Article 57(f) – human health)	0.020	0.1

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## 24 The Twenty Four Substances of SVHC (Released in Jan, 2021)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Toxic for reproduction (Article 57 (c))	0.020	0.1
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 57 (c))	0.020	0.1

## 25 The eight Substances of SVHC (Released in July, 2021)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
212	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	Toxic for reproduction (Article 57 (c)) Endocrine disrupting properties - human health (Article 57 F)	0.020	0.1
213	Orthoboric acid, sodium salt	-	Toxic for reproduction (Article 57 (c))	0.020	0.1
214	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	PBT(Article 57 D) VPVB (Article 57 E)	0.020	0.1
215	Glutaral	111-30-8	Breathing sensitive (Article 57 F)	0.020	0.1
216	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	Endocrine disrupting properties - human health(Article 57 F)	0.020	0.1
217	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	Toxic for reproduction (Article 57 (c))	0.020	0.1
218	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)	3296-90-0 36483-57-5, 1522-92-5 96-13-9	Carcinogenic (Article 57a)	0.020	0.1
219	1,4-dioxane	123-91-1	- environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)	0.020	0.1

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## 26 The four Substances of SVHC (Released in January, 2022)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Toxic for reproduction (Article 57 (c))	0.020	0.1
221	tris(2-methoxyethoxy)vinylsilane	1067-53-4	Toxic for reproduction (Article 57 (c))	0.020	0.1
222	(±)-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	-	Endocrine disrupting properties - human health (Article 57 F)	0.020	0.1
223	S-(tricyclo(5.2.1.0 <sup>2</sup> .6)deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	PBT(Article 57 D)	0.020	0.1

## 27 The one Substances of SVHC (Released in June, 2022)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit %(w/w)
224	N-(hydroxymethyl)acrylamide	924-42-5	Carcinogenic (Article 57a) Toxic for reproduction (Article 57b)	0.020	0.1

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## 28 The Nine Substances of SVHC (Released in January, 2023)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	Very persistent and very bioaccumulative (REACH Article 57 e)	0.020	0.1
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	Carcinogenic (Article 57 a)	0.020	0.1
227	4,4'-sulphonyldiphenol	80-09-1	Toxic for reproduction (Article 57 c); Endocrine disrupting properties (Article 57 f – environment); Endocrine disrupting properties (Article 57 f – human health)	0.020	0.1
228	Barium diboron tetraoxide	13701-59-2	Toxic for reproduction (Article 57 c)	0.020	0.1
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	Very persistent and very bioaccumulative (Article 57 e)	0.020	0.1
230	Isobutyl 4-hydroxybenzoate	4247-02-3	Endocrine disrupting properties (Article 57 f – human health)	0.020	0.1
231	Melamine	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)	0.020	0.1
232	Perfluoroheptanoic acid and its salts	--	Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57 d); Very persistent and very bioaccumulative (Article 57 e); 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)	0.020	0.1
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)morpholine	--	Very persistent and very bioaccumulative (Article 57 e)	0.020	0.1

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## 29 The two Substances of SVHC (Released in June, 2023)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Toxic for reproduction (Article 57c)	0.020	0.1
235	Bis(4-chlorophenyl) sulphone	80-07-9	Very persistent and very bioaccumulative (Article 57e)	0.020	0.1

## 30 The five Substances of SVHC (Released in January, 2024)

No.	Test Item	CAS No.	SVHC classification	RL % (w/w)	Limit % (w/w)
236	2,4,6-tri-tert-butylphenol	732-26-3	Toxic for reproduction (Article 57c) Persistent, bioaccumulative and toxic (PBT) (Article 57d)	0.020	0.1
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	Very persistent and very bioaccumulative (vPvB) (Article 57e)	0.020	0.1
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Toxic for reproduction (Article 57c)	0.020	0.1
239	Bumetrizole	3896-11-5	vPvB (Article 57e)	0.020	0.1
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	vPvB (Article 57e)	0.020	0.1

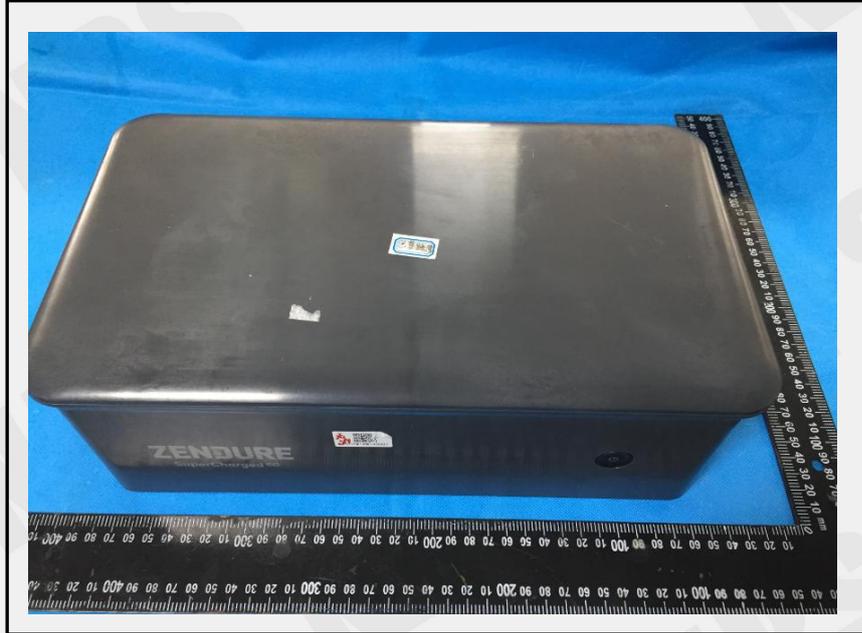
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## Photo of the Submitted Sample



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