

Test Report

Number: SHAH01536838

Applicant: HAPE INTERNATIONAL (NINGBO) LTD.
HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY
BEILUN, NINGBO, CHINA PC:315800
Attn: QIN KE/CHEN KAI

Date: 13 Sep, 2023

Sample Description:

One (1) group of submitted sample said to be :

Item Name : Illiana S
Illiana M(test sample)
Illiana L
Item No. : 846159
846161(test sample)
846162
Labelled Age Group : 3-6years

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	EN 1729-1: 2015+AC:2016 Furniture-Chair and tables for educational institutions-Part 1 : Functional dimensions. - Excluding clause 6 Instructions	Pass
Submitted sample	EN 1729-2:2023- Furniture — Chairs and tables for educational institutions Part 2: Safety requirements and test methods	Pass
Tested component of submitted samples	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII item 63 of the REACH Regulation (EC) No. 1907/2006	Pass
Tested components of submitted samples / sets	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



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Tested Components of Submitted Sample(s)	EU REACH regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and Waste Framework Directive (WFD) requirement in report for details)	Meet requirement
Tested Component of Submitted Sample	Dimethyl Fumarate (DMFu) content requirement in Annex XVII Entry 61 of the REACH Regulation (EC) No 1907/2006 and Amendment (EU) No 412/2012	Pass
Tested Component of Submitted Sample	AfPS GS 2019:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) Content for GS Certification	Pass
Tested Component of Submitted Sample	Regulation (EU) No 2019/1021 on Persistent Organic Pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content	Pass
Tested component of submitted sample	Organotin content requirement in Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010	Pass
Tested component of submitted sample	Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass
Tested component of submitted sample	Hexabromocyclododecane (HBCDD) content requirement in Regulation (EU) 2019/1021	Pass
Tested Component of Submitted Sample	Phthalates content requirement in Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass
Tested Component of Submitted Sample	Phthalates content requirement in Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass See comment

Comment:

The testing scope of the following standard(s) was/were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

To be continued

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1.TEST CHAIRS AND TABLES FOR EDUCATIONAL INSTITUTIONS

With reference EN 1729-1:2015+AC:2016 – Furniture — Chairs and tables for educational institutions Part 1: Functional dimensions, the submitted sample was subjected to the following tests

Number of sample tested: One (1) piece

Initial check: No visible damage was found.

Size mark: 2

Executive summary:

Clause	Test Method / Requirement	Verdict
1	Scope	-
2	Normative references	-
3	Terms and definitions	
4	<p>Functional dimensions for chairs and tables</p> <p>The functional dimensions and corresponding size marks and colour codes for chairs with slopes between -5° and $+7^{\circ}$ and associated tables shall be as specified in the normative Annex A.</p> <p>The functional dimensions and corresponding size marks and colour codes for high chairs with double sloped seats and associated tables shall be as specified in the normative Annex B.</p> <p>The functional dimensions and corresponding size marks and colour codes for standing-height tables shall be as specified in normative Annex C.</p> <p>The functional dimensions and corresponding size marks and colour codes for tall chairs shall be as specified in the normative Annex D. Tables suitable for tall chairs cannot be size marked. Tables shall correspond to the height of tall chairs as in Table D.2.</p> <p>The functional dimensions and corresponding size marks and colour codes for stools shall be as specified in the normative Annex E. Worksurfaces shall correspond to the height of stools as in Table E.3.</p> <p>Adjustable and multi-size furniture shall fulfil the requirements specified in Annex A, Annex B, Annex C, Annex D or Annex E.</p> <p>The stature and popliteal height ranges shown in Table A.1, Table A.2, Table B.1, Table B.2, Table C.1 and Table D.1 do not include any allowance for shoes. All chair and table heights include an allowance for shoes.</p> <p>Assessment needs to be carried out according to EN 1729-1 before being tested according to EN 1729-2.</p>	See Annex A
5	<p>Marking</p> <p>Chairs and tables in Annex A shall be marked as 0 to 7. Chairs and tables in Annex B shall be marked as B0 to B7. Standing-height tables in Annex C shall be marked as C0 to C7. Tall chairs in Annex D shall be marked as D0 to D7. Stools in Annex E shall be marked as E0 to E7.</p> <p>The marking of fixed and adjustable chairs and tables shall be legible and indelible and shall include at least the following information:</p> <p>a) size mark or colour code or both, as specified in Annex A, Annex B, Annex C, Annex D or Annex E;</p> <p>b) marking on adjustable furniture of the size marks covered;</p> <p>c) name and/or trade name and/or mark and address of the manufacturer or his or her authorized representative in full or in abbreviated form, provided the abbreviation enables the manufacturer and/or his or her authorized representative to be identified;</p> <p>d) date of production by stating at least the year and month of production.</p> <p>Tall chairs shall also be marked with a reference where to find information on the table height they are intended to be used with. This information shall be provided on a label directly or via a web address, QR-code or other suitable application. Tables that are intended for use with tall chairs shall be marked with their height (distance from the floor to the top of the table). This information shall be provided on a label directly or via a web address, QR-code or other suitable application.</p>	P



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6	<p>Instructions The instructions shall be submitted with the furniture in the official language(s) of the country where the furniture is sold. They can be given affixed to the furniture, on a label, in a leaflet or in the instructions for use. They shall include at least the following:</p> <p>a) Size mark reference: size mark identification shall be referenced to this European Standard;</p> <p>b) Maintenance instructions: including information on maintenance and cleaning;</p> <p>c) Installation instructions for multi-size furniture: instructions on how to adjust the furniture to fit a specific group of pupils;</p> <p>d) Adjustability information: instructions for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognize correct settings and therefore a good posture;</p> <p>e) Warning concerning the hazard when working with gas lifts: "Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only." If the height adjustment is continuous, there is no need to show each size mark explicitly. It is sufficient to have an indication showing the size marks it covers and to have a set of clear instructions, with drawings, on how to adjust the chair to achieve a good posture. This also applies to tables. NOTE Appropriate drawings or pictures can be used to reinforce the information in instruction leaflets.</p>	NC (See remark #1)
7	<p>Approval of range In order to approve a range of chairs, stools or tables, each size mark within the range shall be measured separately. When assessing table top dimensions for a range of tables, if there are six or fewer different table top shapes or sizes in the range, all table tops shall be measured. If there are more than six different table top shapes or sizes, six shall be measured and the additional table top shapes or sizes shall be assessed from the manufacturer's drawings of them. The drawings shall show full details (dimensions) of each table top and its under frame structure. The information provided shall be used to assess whether the size of table top and legroom clearance fulfil the requirements of the standard. The test report shall state which table tops have been measured and which have been assessed from drawings. These drawings shall be attached to the report.</p>	NA
<p>Annex A Functional dimensions for chairs with slopes between -5° and +7° and associated tables</p>		
<p>A.1 Functional dimensions and size marks for chairs</p>		
	<p>The dimensions, angles, size marks and colour codes for chairs shall be as given in Table A.1. Where dimensions are stated as ranges, the measured dimension shall be any value in this range. All accessible edges shall be rounded or chamfered. Room for free movement of the buttocks shall be ensured. If the backrest extends below Point S, it shall be angled rearwards such as to maintain the buttock zone as shown in Figure A.3. Raised edges and surfaces shall not dig into thighs. This applies to points or edges on the seat surface or frame in front of the position indicated by the rear pins on the SCMD, outside the planes through the rear pins which are parallel to the median plane, as shown by the shaded area in Figure A.1. This requirement is fulfilled when these points are not higher than 15 mm above the lowest point on the seat surface in the planes through the rear pins and parallel to the median plane for size marks 0 to 3 and 25 mm above the lowest point for size marks 4 to 7.</p>	P
<p>A.2 Functional dimensions and size marks for tables</p>		
	<p>Table tops may be horizontal, with a fixed inclination or inclinable by the user. If the table top is user inclinable, it shall be possible to adjust it to a horizontal position. Table tops which are or can be inclined are recommended.</p>	NA
<p>A.3 Legroom</p>		
	<p>Legroom beneath the worksurfaces (tables and desks) shall be provided for each size mark in accordance with the minimum dimensions as shown in Table A.3 and Figure A.8. The legroom shall be measured by placing the template on the floor with its higher end in line with the front edge of the table, where pupils sit, transversing between the legs of the table. Overlapping of legroom templates is acceptable for a group of tables.</p>	NA



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A.4 Requirements for adjustable chairs and tables a) be easily accessible to the user; b) be possible to operate without the need for tools. Adjustable furniture shall cover two or more size marks. It shall be possible to identify the size marks to which the furniture can be adjusted. Adjustable furniture (chairs and tables) designed to cover a range of size marks shall comply with the dimensional requirements of each size mark covered (see Table A.1 and Table A.2). Adjustments may be continuous or in fixed steps. Examples of dimensions of adjustable chairs and tables are given in Annex G.	NA
Annex B Functional dimensions for high chairs with double-sloped seats and associated tables	NA
Annex C Functional dimensions for standing height tables	NA
Annex D Functional dimensions for tall chairs with slopes between -5° and +7° and associated tables	NA
Annex E Functional dimensions for stools and associated workspaces	NA

Abbreviation: P = Pass F = Fail NA = Not Applicable; NC = Not Conduct

Table A.1—Dimensions and size marks for chairs with single-sloped seats

All dimensions in millimetres unless otherwise stated

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Popliteal range (without shoes)	200-250	250-280	280-315	315-355	355-405	405-435	435-485	485+
Stature range (without shoes)	800 -950	930 -1 160	1 080 -1 210	1 190 -1 420	1 330 -1 590	1 460 -1 765	1 590 -1 880	1 740 -2 070
h ₈ Height of seat ± 10	210	260	310	350	380	430	460	510
t ₄ Effective depth of seat ± 15 (0-2), ± 25 (3-7)	n/a	n/a	n/a	300	340	380	420	460
b ₃ Seat width (min)	210	240	280	320	340	360	380	400
x Distance between Point S and back of seat pad (max)	n/a	n/a	n/a	30	30	50	50	50
h ₇ Backrest height (min)	100	100	100	100	100	100	100	100
b ₄ Width of backrest (min)	n/a	n/a	n/a	260	270	300	330	360
r ₂ Horizontal radius of backrest (min)	n/a	n/a	n/a	300	300	300	300	300
α Inclination of seat	n/a	n/a	n/a	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°
γ Angle between seat and backrest	n/a	n/a	n/a	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°
p Height of armrest above seat -20 to +10	n/a	n/a	n/a	170	190	210	230	250
r Width between arms	n/a	n/a	n/a	360-410	390-440	420-470	460-510	510 - 570
q Distance from backrest to front edge of armrest (max)	n/a	n/a	n/a	n/a	225	250	275	300
o Width of armrest (min)	n/a	n/a	n/a	n/a	20	20	20	20
n Length of armrest (min)	n/a	n/a	n/a	n/a	80	80	80	80



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Table A.2 — Dimensions and size marks for tables for use with chairs with seat slopes between -5° and +7°

All dimensions in millimetres unless otherwise stated

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Popliteal range (without shoes)	200-250	250-280	280-315	315-355	355-405	405-435	435-485	485+
Stature range (without shoes)	800-950	930 -1 160	1 080 -1 210	1 190 -1 420	1 330 -1 590	1 460 -1 765	1 590 -1 880	1 740 -2 070
h ₁ Height of top ± 20	400	460	530	590	640	710	760	820
t ₁ Depth of top (min)	-	500 ^a	500 ^a	500 ^a	500	500	500	500
w ₁ Width of top, per person at front edge, where pupils sit (min)	-	600 ^b	600 ^b	600 ^b	600 ^b	600	600	600
Surface area per person (min)	-	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²
Horizontal distance between front legs/structure, where pupils sit, per person (min)	-	500 ^c	500 ^c	500 ^c	500 ^c	500	500	500

^a Can be reduced to 400 mm (only when required by educational conditions).
^b Can be reduced to 550 mm (only when required by educational conditions).
^c Can be reduced to 450 mm (only when required by educational conditions).

Table A.3 — Minimum legroom template dimensions for tables for use with chairs with seat slopes between -5° and +7°

All dimensions in millimetres

Size marks								
	0	1	2	3	4	5	6	7
h ₂	325	380	440	495	545	610	665	725
h ₄	275	325	375	420	465	520	565	620
t ₂	300	300	300	300	400	400	400	400
t ₃	400	400	400	400	500	500	500	500

Remark:

#1 the instructions was not provided for review

the instructions shall be submitted with the furniture in the official languages of the country where the furniture is sold. It can be given either affixed to the furniture, on a label, in a leaflet or in the instructions for use. It shall include at least the following:

- a) Size mark reference: Size mark identification shall be referenced to this European standard;
- b) Maintenance instructions: Including information on surface finish properties, maintenance and cleaning;
- c) Installation instructions for multi-size furniture: Instructions on how to adjust the furniture to fit a specific group of pupils;



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- d) Adjustability information: Instruction for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognize correct settings and therefore a good posture
- e) Warning concerning the hazard when working with gas lifts: "Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only." If the height adjustment is continuous, there is no need to show each size mark explicitly. It is sufficient to have an indication showing the size marks it covers and to have a set of clear instructions, with drawings, on how to adjust the chair to achieve a good posture. This also applies to tables.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 07, 2023

2.TEST CHAIRS AND TABLES FOR EDUCATIONAL INSTITUTIONS

With reference EN 1729-2:2023– Furniture — Chairs and tables for educational institutions Part 2: Safety requirements and test methods, the submitted sample was subjected to the following tests:

Number of sample tested: One (1) piece

Initial inspection: No any damage was found

Size mark: 2

Executive summary:

Clause	Test items	Verdict
1	Scope	-
2	Normative references	-
3	Terms and definitions	-
4	General test conditions	-
5	Safety requirements	-
5.1	General safety requirements	P
5.2	Additional safety requirements for chairs sizemarks 0 to 3	P
5.3	Additional safety requirements for chairs sizemarks 0 to 1	NA
6	Testing of chairs	-
6.1	General	-
6.2	Stability	-
6.2.1	General	-
6.2.2	Forward overturning (EN 1022:2018, 7.3.1 and 7.3.2)	P
6.2.3	Sideways overturning	-
6.2.3.1	Sideways overturning of chairs without armrests (EN 1022:2018, 7.3.4)	P
6.2.3.2	Sideways overturning of chairs with armrests (EN 1022:2018, 7.3.5.2)	NA
6.2.4	Rearwards overturning for all chairs with backrests (EN 1022:2018, 7.3.6)	P
6.2.5	Additional overturning requirement for chairs with reclining backrests (EN 1022:2018, 7.4)	NA
6.2.6	Corner stability (EN 1022:2018, 7.3.3)	NA
6.3	Strength and durability	-
6.3.1	General	-
6.3.2	Seat and back static load (EN 1728:2012, 6.4)	P
6.3.3	Seat and back durability (EN 1728:2012, 6.17)	NA
6.3.4	Seat front edge durability (EN 1728:2012, 6.18)	NA
6.3.5	Leg sideways static load (EN 1728:2012, 6.16)	NA
6.3.6	Leg forward static load (EN 1728:2012, 6.15)	NA
6.3.7	Seat impact (EN 1728:2012, 6.24)	P
6.3.8	Back impact (EN 1728:2012, 6.25)	P
6.3.9	Foot rail static load (EN 1728:2012, 6.8)	NA
6.3.10	Drop test (EN 1728:2012, 6.27.3)	P
6.3.11	Foot rest durability (EN 1728:2012, 6.21)	NA



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6.3.12	Armrest durability (EN 1728:2012, 6.20)	NA
6.3.13	Armrest static load (EN 1728:2012)	NA
6.3.14	Side to side durability test (EN 1728:2012)	NA
6.3.15	Vertical static load on auxiliary writing surfaces (EN 1728:2012, 6.14)	NA
6.3.16	Auxiliary writing surface durability test	NA
7	Testing of tables	-
7.1	Stability	-
7.1.1	General	-
7.1.2	Stability of tables, vertical load (EN 1730:2012, 7.2)	NA
7.1.3	Stability of tables, horizontal impact (EN 1728:2012, 6.25)	NA
7.2	Strength and durability of tables	-
7.2.1	General	-
7.2.2	Horizontal static load (EN 1730:2012, 6.2)	NA
7.2.3	Horizontal durability (EN 1730:2012, 6.4.2)	NA
7.2.4	Vertical static load (EN 1730:2012, 6.3.1)	NA
7.2.5	Vertical durability (EN 1730:2012, 6.5)	NA

Abbreviation: **P**=Pass; **NA**= Not Applicable

Description:

Chair:

Overall dimensions (mm): 335 (Depth) x 282 (width) x 547 (Height)

Weight (kg): 1.65kg

Seat height: 305 mm

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 07, 2023

3. Lead (Pb) Content

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result (%)	Limit (%)
(1)	ND	0.05
(2)	ND	0.05
(3)	ND	0.05
(4)	ND	0.05
(5)	ND	0.05
(6)	ND	0.05
(7)	ND	0.05
(8)	ND	0.05

Remark: ND = Not Detected (Less than detection limit)

Detection Limit = 0.002%

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 07, 2023

4. Cadmium (Cd) Content

With reference to methods IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.



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Tested Component	Result in %
(1)	ND
(2)	ND
(3)	ND
(4)	ND
(5)	ND
(6)	ND

Requirement:	
Category	Limit (%)
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = Not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 07, 2023

5.SVHC Testing

By a combination of Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

(a) The First List (15 SVHC Released in October, 2008)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
1	Cobalt Dichloride Δ	7646-79-9	ND	ND	ND
2	Diarsenic Pentaoxide Δ	1303-28-2	ND	ND	ND
3	Diarsenic Trioxide Δ	1327-53-3	ND	ND	ND
4	Lead Hydrogen Arsenate Δ	7784-40-9	ND	ND	ND
5	Triethyl Arsenate Δ	15606-95-8	ND	ND	ND
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND	ND	ND
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND	ND	ND
8	Anthracene	120-12-7	ND	ND	ND
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND	ND	ND
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND	ND	ND
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND	ND	ND
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND
13	Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND
14	Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	ND	ND	ND

(b) The Second List (13 SVHC Release in January, 2010 and March, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)
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			(1)	(2)	(3)
16	Lead Chromate Δ	7758-97-6	ND	ND	ND
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND	ND	ND
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND	ND	ND
19	Tris (2-Chloroethyl) Phosphate	115-96-8	ND	ND	ND
20	2,4-Dinitrotoluene	121-14-2	ND	ND	ND
21	Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND
22	Coal Tar Pitch, High Temperature	65996-93-2	ND	ND	ND
23	Anthracene Oil	90640-80-5	ND	ND	ND
24	Anthracene Oil, Anthracene Paste, Distr. Lights	91995-17-4	ND	ND	ND
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND	ND	ND
26	Anthracene Oil, Anthracene-low	90640-82-7	ND	ND	ND
27	Anthracene Oil, Anthracene Paste	90640-81-6	ND	ND	ND
28	Acrylamide	79-06-1	ND	ND	ND

(c) The Third List (8 SVHC Release in June, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
29	Boric Acid Δ	10043-35-3, 11113-50-1	ND	ND	ND
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	ND	ND	ND
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	ND	ND	ND
32	Sodium Chromate Δ	7775-11-3	ND	ND	ND
33	Potassium Chromate Δ	7789-00-6	ND	ND	ND
34	Ammonium Dichromate Δ	7789-09-5	ND	ND	ND
35	Potassium Dichromate Δ	7778-50-9	ND	ND	ND
36	Trichloroethylene	79-01-6	ND	ND	ND

(d) The Fourth List (8 SVHC Release in December, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
37	2-Methoxyethanol	109-86-4	ND	ND	ND
38	2-Ethoxyethanol	110-80-5	ND	ND	ND
39	Cobalt Sulphate Δ	10124-43-3	ND	ND	ND
40	Cobalt Dinitrate Δ	10141-05-6	ND	ND	ND
41	Cobalt Carbonate Δ	513-79-1	ND	ND	ND
42	Cobalt Diacetate Δ	71-48-7	ND	ND	ND
43	Chromium Trioxide Δ	1333-82-0	ND	ND	ND
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	ND	ND	ND

(e) The Fifth List (7 SVHC Release in June, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
45	Strontium Chromate Δ	7789-06-2	ND	ND	ND



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46	2-ethoxyethyl acetate (2-EEA)	111-15-9	ND	ND	ND
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUF)	68515-42-4	ND	ND	ND
48	Hydrazine	7803-57-8 302-01-2	ND	ND	ND
49	1-methyl-2-pyrrolidone	872-50-4	ND	ND	ND
50	1,2,3-trichloropropane	96-18-4	ND	ND	ND
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND	ND	ND

(f) The Sixth List (20 SVHC Release in December, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
52	Lead dipicrate Δ	6477-64-1	ND	ND	ND
53	Lead styphnate Δ	15245-44-0	ND	ND	ND
54	Lead azide; Lead diazide Δ	13424-46-9	ND	ND	ND
55	Phenolphthalein	77-09-8	ND	ND	ND
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND	ND	ND
57	N,N-dimethylacetamide (DMAC)	127-19-5	ND	ND	ND
58	Trilead diarsenate Δ	3687-31-8	ND	ND	ND
59	Calcium arsenate Δ	7778-44-1	ND	ND	ND
60	Arsenic acid Δ	7778-39-4	ND	ND	ND
61	Bis(2-methoxyethyl) ether	111-96-6	ND	ND	ND
62	1,2-Dichloroethane	107-06-2	ND	ND	ND
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND	ND	ND
64	2-Methoxyaniline; o-Anisidine	90-04-0	ND	ND	ND
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND	ND	ND
67	Pentazinc chromate octahydroxide Δ	49663-84-5	ND	ND	ND
68	Potassium hydroxyoctaoxodizincate di-chromate Δ	11103-86-9	ND	ND	ND
69	Dichromium tris(chromate) Δ	24613-89-6	ND	ND	ND
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND

(g) The Seventh List (13 SVHC Release in June, 2012)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND	ND	ND
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	ND	ND
74	Diboron trioxide Δ	1303-86-2	ND	ND	ND
75	Formamide	75-12-7	ND	ND	ND
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND	ND	ND
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND	ND	ND
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	ND	ND	ND



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Tests Conducted

79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND	ND	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND	ND	ND
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	ND	ND
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND	ND	ND
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	ND	ND
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	ND	ND

(h) The Eighth List (54 SVHC Release in December, 2012)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	ND	ND
86	Pentacosafuorotridecanoic acid	72629-94-8	ND	ND	ND
87	Tricosafuorododecanoic acid	307-55-1	ND	ND	ND
88	Henicosafuoroundecanoic acid	2058-94-8	ND	ND	ND
89	Heptacosafuorotetradecanoic acid	376-06-7	ND	ND	ND
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND	ND	ND
91	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7	ND	ND	ND
	cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3			
	trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3			
	[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].				



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Tests Conducted

92	Hexahydromethylphthalic anhydride [1],	25550-51-0	ND	ND	ND
	Hexahydro-4-methylphthalic anhydride [2],	19438-60-9			
	Hexahydro-1-methylphthalic anhydride [3],	48122-14-1			
	Hexahydro-3-methylphthalic anhydride [4]	57110-29-9			
	[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]				
93	4-Nonylphenol, branched and linear		ND	ND	ND
	[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]	--			
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated		ND	ND	ND
	[covering well-defined substances and UVCB substances, polymers and homologues]	--			
95	Methoxyacetic acid	625-45-6	ND	ND	ND
96	N,N-dimethylformamide	68-12-2	ND	ND	ND
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	ND	ND	ND
98	Lead monoxide (Lead oxide) Δ	1317-36-8	ND	ND	ND
99	Orange lead (Lead tetroxide) Δ	1314-41-6	ND	ND	ND
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND	ND	ND
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND	ND	ND
102	Lead titanium trioxideΔ	12060-00-3	ND	ND	ND
103	Lead titanium zirconium oxideΔ	12626-81-2	ND	ND	ND
104	Silicic acid, lead salt Δ	11120-22-2	ND	ND	ND
105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-dopedΔ		ND	ND	ND
	[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8			
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	ND	ND
107	Methyloxirane (Propylene oxide)	75-56-9	ND	ND	ND
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	ND	ND
109	Diisopentylphthalate (DIPP)	605-50-5	ND	ND	ND
110	N-pentyl-isopentylphthalate	776297-69-9	ND	ND	ND
111	1,2-diethoxyethane	629-14-1	ND	ND	ND
112	Acetic acid, lead salt, basicΔ	51404-69-4	ND	ND	ND
113	Lead oxide sulfateΔ	12036-76-9	ND	ND	ND
114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND	ND	ND



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Tests Conducted

115	Dioxobis(stearato)trileadΔ	12578-12-0	ND	ND	ND
116	Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND	ND	ND
117	Lead cyanamideΔ	20837-86-9	ND	ND	ND
118	Lead dinitrateΔ	10099-74-8	ND	ND	ND
119	Pentalead tetraoxide sulphateΔ	12065-90-6	ND	ND	ND
120	Pyrochlore, antimony lead yellowΔ	8012-00-8	ND	ND	ND
121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7	ND	ND	ND
122	TetraethylleadΔ	78-00-2	ND	ND	ND
123	Tetralead trioxide sulphateΔ	12202-17-4	ND	ND	ND
124	Trilead dioxide phosphonateΔ	12141-20-7	ND	ND	ND
125	Furan	110-00-9	ND	ND	ND
126	Diethyl sulphate	64-67-5	ND	ND	ND
127	Dimethyl sulphate	77-78-1	ND	ND	ND
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND	ND	ND
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND	ND	ND
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	ND	ND
131	4,4'-oxydianiline and its salts	101-80-4	ND	ND	ND
132	4-aminoazobenzene	60-09-3	ND	ND	ND
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND	ND	ND
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	ND	ND
135	Biphenyl-4-ylamine	92-67-1	ND	ND	ND
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND	ND	ND
137	o-toluidine	95-53-4	ND	ND	ND
138	N-methylacetamide	79-16-3	ND	ND	ND

(i) The Ninth List (6 SVHC Release in June, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
139	CadmiumΔ	7440-43-9	ND	ND	ND
140	Cadmium oxideΔ	1306-19-0	ND	ND	ND
141	Dipentyl phthalate (DPP)	131-18-0	ND	ND	ND
142	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]	--	ND	ND	ND
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	ND	ND
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND	ND	ND

(j) The Tenth List (7 SVHC Release in December, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
145	Cadmium sulphideΔ	1306-23-6	ND	ND	ND
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND	ND	ND



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Tests Conducted

147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] - 5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND	ND	ND
148	Dihexyl phthalate	84-75-3	ND	ND	ND
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND	ND	ND
150	Lead di(acetate) Δ	301-04-2	ND	ND	ND
151	Trixylyl phosphate	25155-23-1	ND	ND	ND

(k) The Eleventh List (4 SVHC Release in June, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND
153	Cadmium chlorideΔ	10108-64-2	ND	ND	ND
154	Sodium perborate; Perboric acid, sodium saltΔ	15120-21-5; 11138-47-9	ND	ND	ND
155	Sodium peroxometaborateΔ	7632-04-4	ND	ND	ND

(l) The Twelfth List (6 SVHC Release in December, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	ND	ND
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	ND	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)Δ	15571-58-1	ND	ND	ND
159	Cadmium fluorideΔ	7790-79-6	ND	ND	ND
160	Cadmium sulphateΔ	10124-36-4; 31119-53-6	ND	ND	ND
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)Δ	--	ND	ND	ND

(m) The Thirteenth List (2 SVHC Release in June, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	ND	ND	ND
163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	ND	ND	ND

(n) The Fourteenth List (5 SVHC Release in December, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
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Test Report

Number: SHAH01536838

Tests Conducted

			(1)	(2)	(3)
164	1,3-Propanesultone	1120-71-4	ND	ND	ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	ND	ND
166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	ND	ND
167	Nitrobenzene	98-95-3	ND	ND	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	ND	ND	ND

(o) The Fifteenth List (1 SVHC Release in June, 2016)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND	ND	ND

(p) The Sixteenth List (4 SVHC Release in January, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	ND	ND	ND
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	--	ND	ND	ND
	Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2				
	Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7				
172	Decanoic acid, nonadecafluoro-, sodium salt EC no.: -- CAS no.: 3830-45-3	--	ND	ND	ND
	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]				
173	p-(1,1-dimethylpropyl)phenol	80-46-6	ND	ND	ND

(q) The Seventeenth List (1 SVHC Release in July, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	ND	ND	ND

(r) The Eighteenth List (7 SVHC Release in January, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
175	Benz[a]anthracene	56-55-3	ND	ND	ND
176	Cadmium nitrate Δ	10325-94-7	ND	ND	ND
177	Cadmium carbonate Δ	513-78-0	ND	ND	ND
178	Cadmium hydroxide Δ	21041-95-2	ND	ND	ND
179	Chrysene	218-01-9	ND	ND	ND



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Tests Conducted

180	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"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--	ND	ND	ND
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	--	ND	ND	ND

(s) The Nineteenth List (10 SVHC Release in June, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	ND	ND	ND
183	Decamethylcyclopentasiloxane (D5)	541-02-6	ND	ND	ND
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	ND	ND
185	Lead	7439-92-1	ND	ND	ND
186	Disodium octaborate Δ	12008-41-2	ND	ND	ND
187	Benzo[ghi]perylene	191-24-2	ND	ND	ND
188	Terphenyl hydrogenated	61788-32-7	ND	ND	ND
189	Ethylenediamine (EDA)	107-15-3	ND	ND	ND
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7	ND	ND	ND
191	Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND

(t) The Twentieth List (6 SVHC Release in January, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND	ND	ND
193	Benzo[k]fluoranthene	207-08-9	ND	ND	ND
194	Fluoranthene	206-44-0	ND	ND	ND
195	Phenanthrene	85-01-8	ND	ND	ND
196	Pyrene	129-00-0	ND	ND	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	ND	ND	ND

(u) The Twenty-first List (4 SVHC Release in July, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
198	4-tert-butylphenol (PTBP)	98-54-4	ND	ND	ND
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND	ND	ND
200	2-methoxyethyl acetate	110-49-6	ND	ND	ND
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND	ND	ND



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Tests Conducted

(v) The Twenty- second List (4 SVHC Release in Jan, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND	ND	ND
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	ND	ND
204	Diisohexyl phthalate	71850-09-4	ND	ND	ND
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	ND	ND	ND

(w) The Twenty-third List (4 SVHC Release in Jun, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
206	1-vinylimidazole	1072-63-5	ND	ND	ND
207	2-methylimidazole	693-98-1	ND	ND	ND
208	Butyl 4-hydroxybenzoate	94-26-8	ND	ND	ND
209	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND	ND	ND

(X) The Twenty-fourth List (2 SVHC Release in Jan, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	ND	ND	ND
211	Dioctyltin 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 moietyΔ	-	ND	ND	ND

(y) The Twenty-fifth List (8 SVHC Release in Jul, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
212	1,4-dioxane	123-91-1	ND	ND	ND
213	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	ND	ND	ND
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	ND	ND	ND
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	ND	ND	ND
216	Glutaral	111-30-8	ND	ND	ND
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	--	ND	ND	ND
218	Orthoboric acid, sodium saltΔ	13840-56-7	ND	ND	ND



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Tests Conducted

219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	ND	ND	ND
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(z) The Twenty-sixth List (4 SVHC Release in Jan 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
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)	--	ND	ND	ND
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	ND	ND	ND
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) phosphorodithioateΔ	255881-94-8	ND	ND	ND
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND	ND	ND

(aa) The Twenty-seventh List (1 SVHC Release in Jun 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
224	N-(hydroxymethyl)acrylamide	924-42-5	ND	ND	ND

(ab) The Twenty-eighth List (9 SVHC Release in Jan 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	ND	ND	ND
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	ND	ND	ND
227	4,4'-sulphonyldiphenol	80-09-1	ND	ND	ND
228	Barium diboron tetraoxideΔ	13701-59-2	ND	ND	ND
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	ND	ND	ND
230	Isobutyl 4-hydroxybenzoate	4247-02-3	ND	ND	ND
231	Melamine	108-78-1	ND	ND	ND
232	Perfluoroheptanoic acid and its salts	--	ND	ND	ND
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	-	ND	ND	ND

(ac) The Twenty-ninth List (2 SVHC Release in June 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
234	bis(4-chlorophenyl) sulphone (BCPS)	80-07-9	ND	ND	ND
235	Diphenyl (2,4,6- trimethylbenzoyl) phosphine oxide	75980- 60-8	ND	ND	ND



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(ad) Proposed SVHC(List of 1 chemical in the draft Commission Implementing Decision proposed by European Commission, and published as Notification G/TBT/N/EU/803 on World Trade Organization (WTO) on 1 June 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(1)	(2)	(3)
1	Resorcinol	108-46-3	ND	ND	ND

(a) The First List (15 SVHC Released in October, 2008)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
1	Cobalt Dichloride Δ	7646-79-9	ND	ND	ND
2	Diarsenic Pentaoxide Δ	1303-28-2	ND	ND	ND
3	Diarsenic Trioxide Δ	1327-53-3	ND	ND	ND
4	Lead Hydrogen Arsenate Δ	7784-40-9	ND	ND	ND
5	Triethyl Arsenate Δ	15606-95-8	ND	ND	ND
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND	ND	ND
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND	ND	ND
8	Anthracene	120-12-7	ND	ND	ND
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND	ND	ND
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND	ND	ND
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND	ND	ND
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND
13	Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND
14	Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	ND	ND	ND

(b) The Second List (13 SVHC Release in January, 2010 and March, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
16	Lead Chromate Δ	7758-97-6	ND	ND	ND
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND	ND	ND
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND	ND	ND
19	Tris (2-Chloroethyl) Phosphate	115-96-8	ND	ND	ND
20	2,4-Dinitrotoluene	121-14-2	ND	ND	ND
21	Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND
22	Coal Tar Pitch, High Temperature	65996-93-2	ND	ND	ND
23	Anthracene Oil	90640-80-5	ND	ND	ND
24	Anthracene Oil, Anthracene Paste, Distr. Lights	91995-17-4	ND	ND	ND
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND	ND	ND
26	Anthracene Oil, Anthracene-low	90640-82-7	ND	ND	ND
27	Anthracene Oil, Anthracene Paste	90640-81-6	ND	ND	ND
28	Acrylamide	79-06-1	ND	ND	ND

(c) The Third List (8 SVHC Release in June, 2010)



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No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
29	Boric Acid Δ	10043-35-3, 11113-50-1	ND	ND	ND
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	ND	ND	ND
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	ND	ND	ND
32	Sodium Chromate Δ	7775-11-3	ND	ND	ND
33	Potassium Chromate Δ	7789-00-6	ND	ND	ND
34	Ammonium Dichromate Δ	7789-09-5	ND	ND	ND
35	Potassium Dichromate Δ	7778-50-9	ND	ND	ND
36	Trichloroethylene	79-01-6	ND	ND	ND

(d) The Fourth List (8 SVHC Release in December, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
37	2-Methoxyethanol	109-86-4	ND	ND	ND
38	2-Ethoxyethanol	110-80-5	ND	ND	ND
39	Cobalt Sulphate Δ	10124-43-3	ND	ND	ND
40	Cobalt Dinitrate Δ	10141-05-6	ND	ND	ND
41	Cobalt Carbonate Δ	513-79-1	ND	ND	ND
42	Cobalt Diacetate Δ	71-48-7	ND	ND	ND
43	Chromium Trioxide Δ	1333-82-0	ND	ND	ND
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	ND	ND	ND

(e) The Fifth List (7 SVHC Release in June, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
45	Strontium ChromateΔ	7789-06-2	ND	ND	ND
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	ND	ND	ND
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND
48	Hydrazine	7803-57-8 302-01-2	ND	ND	ND
49	1-methyl-2-pyrrolidone	872-50-4	ND	ND	ND
50	1,2,3-trichloropropane	96-18-4	ND	ND	ND
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND	ND	ND

(f) The Sixth List (20 SVHC Release in December, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
52	Lead dipicrateΔ	6477-64-1	ND	ND	ND
53	Lead styphnateΔ	15245-44-0	ND	ND	ND
54	Lead azide; Lead diazideΔ	13424-46-9	ND	ND	ND
55	Phenolphthalein	77-09-8	ND	ND	ND
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND	ND	ND
57	N,N-dimethylacetamide (DMAC)	127-19-5	ND	ND	ND
58	Trilead diarsenateΔ	3687-31-8	ND	ND	ND



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59	Calcium arsenate Δ	7778-44-1	ND	ND	ND
60	Arsenic acid Δ	7778-39-4	ND	ND	ND
61	Bis(2-methoxyethyl) ether	111-96-6	ND	ND	ND
62	1,2-Dichloroethane	107-06-2	ND	ND	ND
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND	ND	ND
64	2-Methoxyaniline; o-Anisidine	90-04-0	ND	ND	ND
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND	ND	ND
67	Pentazinc chromate octahydroxide Δ	49663-84-5	ND	ND	ND
68	Potassium hydroxyoctaoxodizincate di-chromate Δ	11103-86-9	ND	ND	ND
69	Dichromium tris(chromate) Δ	24613-89-6	ND	ND	ND
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND

(g) The Seventh List (13 SVHC Release in June, 2012)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND	ND	ND
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	ND	ND
74	Diboron trioxide Δ	1303-86-2	ND	ND	ND
75	Formamide	75-12-7	ND	ND	ND
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND	ND	ND
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5- triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND	ND	ND
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)- trione)	59653-74-6	ND	ND	ND
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND	ND	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND	ND	ND
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	ND	ND
82	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa- 2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND	ND	ND



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83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	ND	ND
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	ND	ND

(h) The Eighth List (54 SVHC Release in December, 2012)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	ND	ND
86	Pentacosafuorotridecanoic acid	72629-94-8	ND	ND	ND
87	Tricosafuorododecanoic acid	307-55-1	ND	ND	ND
88	Henicosafuoroundecanoic acid	2058-94-8	ND	ND	ND
89	Heptacosafuorotetradecanoic acid	376-06-7	ND	ND	ND
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND	ND	ND
91	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7	ND	ND	ND
	cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3			
	trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3			
[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].					
92	Hexahydromethylphthalic anhydride [1],	25550-51-0	ND	ND	ND
	Hexahydro-4-methylphthalic anhydride [2],	19438-60-9			
	Hexahydro-1-methylphthalic anhydride [3],	48122-14-1			
	Hexahydro-3-methylphthalic anhydride [4]	57110-29-9			
[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]					
93	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]	--	ND	ND	ND



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94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	ND	ND	ND
95	Methoxyacetic acid	625-45-6	ND	ND	ND
96	N,N-dimethylformamide	68-12-2	ND	ND	ND
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	ND	ND	ND
98	Lead monoxide (Lead oxide) Δ	1317-36-8	ND	ND	ND
99	Orange lead (Lead tetroxide) Δ	1314-41-6	ND	ND	ND
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND	ND	ND
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND	ND	ND
102	Lead titanium trioxideΔ	12060-00-3	ND	ND	ND
103	Lead titanium zirconium oxideΔ	12626-81-2	ND	ND	ND
104	Silicic acid, lead salt Δ	11120-22-2	ND	ND	ND
105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-dopedΔ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND	ND	ND
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	ND	ND
107	Methyloxirane (Propylene oxide)	75-56-9	ND	ND	ND
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	ND	ND
109	Diisopentylphthalate (DIPP)	605-50-5	ND	ND	ND
110	N-pentyl-isopentylphthalate	776297-69-9	ND	ND	ND
111	1,2-diethoxyethane	629-14-1	ND	ND	ND
112	Acetic acid, lead salt, basicΔ	51404-69-4	ND	ND	ND
113	Lead oxide sulfateΔ	12036-76-9	ND	ND	ND
114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND	ND	ND
115	Dioxobis(stearato)trileadΔ	12578-12-0	ND	ND	ND
116	Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND	ND	ND
117	Lead cyanamideΔ	20837-86-9	ND	ND	ND
118	Lead dinitrateΔ	10099-74-8	ND	ND	ND
119	Pentalead tetraoxide sulphateΔ	12065-90-6	ND	ND	ND
120	Pyrochlore, antimony lead yellowΔ	8012-00-8	ND	ND	ND
121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7	ND	ND	ND
122	TetraethylleadΔ	78-00-2	ND	ND	ND
123	Tetralead trioxide sulphateΔ	12202-17-4	ND	ND	ND
124	Trilead dioxide phosphonateΔ	12141-20-7	ND	ND	ND
125	Furan	110-00-9	ND	ND	ND
126	Diethyl sulphate	64-67-5	ND	ND	ND
127	Dimethyl sulphate	77-78-1	ND	ND	ND
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND	ND	ND
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND	ND	ND
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	ND	ND
131	4,4'-oxydianiline and its salts	101-80-4	ND	ND	ND
132	4-aminoazobenzene	60-09-3	ND	ND	ND



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133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND	ND	ND
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	ND	ND
135	Biphenyl-4-ylamine	92-67-1	ND	ND	ND
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND	ND	ND
137	o-toluidine	95-53-4	ND	ND	ND
138	N-methylacetamide	79-16-3	ND	ND	ND

(i) The Ninth List (6 SVHC Release in June, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
139	Cadmium Δ	7440-43-9	ND	ND	ND
140	Cadmium oxide Δ	1306-19-0	ND	ND	ND
141	Dipentyl phthalate (DPP)	131-18-0	ND	ND	ND
142	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]	--	ND	ND	ND
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	ND	ND
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND	ND	ND

(j) The Tenth List (7 SVHC Release in December, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
145	Cadmium sulphide Δ	1306-23-6	ND	ND	ND
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND	ND	ND
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND	ND	ND
148	Dihexyl phthalate	84-75-3	ND	ND	ND
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND	ND	ND
150	Lead di(acetate) Δ	301-04-2	ND	ND	ND
151	Trixylyl phosphate	25155-23-1	ND	ND	ND

(k) The Eleventh List (4 SVHC Release in June, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND
153	Cadmium chloride Δ	10108-64-2	ND	ND	ND
154	Sodium perborate; Perboric acid, sodium salt Δ	15120-21-5; 11138-47-9	ND	ND	ND
155	Sodium peroxometaborate Δ	7632-04-4	ND	ND	ND

(l) The Twelfth List (6 SVHC Release in December, 2014)



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No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	ND	ND
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	ND	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	15571-58-1	ND	ND	ND
159	Cadmium fluoride Δ	7790-79-6	ND	ND	ND
160	Cadmium sulphate Δ	10124-36-4; 31119-53-6	ND	ND	ND
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) Δ	--	ND	ND	ND

(m) The Thirteenth List (2 SVHC Release in June, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
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	ND	ND	ND
163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	ND	ND	ND

(n) The Fourteenth List (5 SVHC Release in December, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
164	1,3-Propanesultone	1120-71-4	ND	ND	ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	ND	ND
166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	ND	ND
167	Nitrobenzene	98-95-3	ND	ND	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	ND	ND	ND

(o) The Fifteenth List (1 SVHC Release in June, 2016)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND	ND	ND

(p) The Sixteenth List (4 SVHC Release in January, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)



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170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	ND	ND	ND
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	--	ND	ND	ND
	Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2				
	Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7				
172	Decanoic acid, nonadecafluoro-, sodium salt EC no.: -- CAS no.: 3830-45-3	--	ND	ND	ND
	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]				
173	p-(1,1-dimethylpropyl)phenol	80-46-6	ND	ND	ND

(g) The Seventeenth List (1 SVHC Release in July, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	ND	ND	ND

(r) The Eighteenth List (7 SVHC Release in January, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
175	Benz[a]anthracene	56-55-3	ND	ND	ND
176	Cadmium nitrate Δ	10325-94-7	ND	ND	ND
177	Cadmium carbonate Δ	513-78-0	ND	ND	ND
178	Cadmium hydroxide Δ	21041-95-2	ND	ND	ND
179	Chrysene	218-01-9	ND	ND	ND
180	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"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--	ND	ND	ND
	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	--	ND	ND	ND

(s) The Nineteenth List (10 SVHC Release in June, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	ND	ND	ND
183	Decamethylcyclopentasiloxane (D5)	541-02-6	ND	ND	ND
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	ND	ND
185	Lead	7439-92-1	ND	ND	ND



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186	Disodium octaborateΔ	12008-41-2	ND	ND	ND
187	Benzo[ghi]perylene	191-24-2	ND	ND	ND
188	Terphenyl hydrogenated	61788-32-7	ND	ND	ND
189	Ethylenediamine (EDA)	107-15-3	ND	ND	ND
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7	ND	ND	ND
191	Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND

(t) The Twentieth List (6 SVHC Release in January, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND	ND	ND
193	Benzo[k]fluoranthene	207-08-9	ND	ND	ND
194	Fluoranthene	206-44-0	ND	ND	ND
195	Phenanthrene	85-01-8	ND	ND	ND
196	Pyrene	129-00-0	ND	ND	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	ND	ND	ND

(u) The Twenty-first List (4 SVHC Release in July, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
198	4-tert-butylphenol (PTBP)	98-54-4	ND	ND	ND
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND	ND	ND
200	2-methoxyethyl acetate	110-49-6	ND	ND	ND
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND	ND	ND

(v) The Twenty- second List (4 SVHC Release in Jan, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND	ND	ND
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	ND	ND
204	Diisohexyl phthalate	71850-09-4	ND	ND	ND
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	ND	ND	ND

(w) The Twenty-third List (4 SVHC Release in Jun, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
206	1-vinylimidazole	1072-63-5	ND	ND	ND
207	2-methylimidazole	693-98-1	ND	ND	ND



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208	Butyl 4-hydroxybenzoate	94-26-8	ND	ND	ND
209	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND	ND	ND

(X) The Twenty-fourth List (2 SVHC Release in Jan, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	ND	ND	ND
211	Diocyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moietyΔ	-	ND	ND	ND

(y) The Twenty-fifth List (8 SVHC Release in Jul, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
212	1,4-dioxane	123-91-1	ND	ND	ND
213	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	ND	ND	ND
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	ND	ND	ND
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	ND	ND	ND
216	Glutaral	111-30-8	ND	ND	ND
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	--	ND	ND	ND
218	Orthoboric acid, sodium saltΔ	13840-56-7	ND	ND	ND
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	ND	ND	ND

(z) The Twenty-sixth List (4 SVHC Release in Jan 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
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)	--	ND	ND	ND
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	ND	ND	ND
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) phosphorodithioateΔ	255881-94-8	ND	ND	ND
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND	ND	ND



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(aa) The Twenty-seventh List (1 SVHC Release in Jun 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
224	N-(hydroxymethyl)acrylamide	924-42-5	ND	ND	ND

(ab) The Twenty-eighth List (9 SVHC Release in Jan 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	ND	ND	ND
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	ND	ND	ND
227	4,4'-sulphonyldiphenol	80-09-1	ND	ND	ND
228	Barium diboron tetraoxide Δ	13701-59-2	ND	ND	ND
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	ND	ND	ND
230	Isobutyl 4-hydroxybenzoate	4247-02-3	ND	ND	ND
231	Melamine	108-78-1	ND	ND	ND
232	Perfluoroheptanoic acid and its salts	--	ND	ND	ND
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	-	ND	ND	ND

(ac) The Twenty-ninth List (2 SVHC Release in June 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
234	bis(4-chlorophenyl) sulphone (BCPS)	80-07-9	ND	ND	ND
235	Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	ND	ND	ND

(ad) Proposed SVHC(List of 1 chemical in the draft Commission Implementing Decision proposed by European Commission, and published as Notification G/TBT/N/EU/803 on World Trade Organization (WTO) on 1 June 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(4)	(5)	(6)
1	Resorcinol	108-46-3	ND	ND	ND

(a) The First List (15 SVHC Released in October, 2008)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
1	Cobalt Dichloride Δ	7646-79-9	ND	ND	ND
2	Diarsenic Pentaoxide Δ	1303-28-2	ND	ND	ND
3	Diarsenic Trioxide Δ	1327-53-3	ND	ND	ND
4	Lead Hydrogen Arsenate Δ	7784-40-9	ND	ND	ND
5	Triethyl Arsenate Δ	15606-95-8	ND	ND	ND
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND	ND	ND
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND	ND	ND
8	Anthracene	120-12-7	ND	ND	ND
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND	ND	ND



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10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND	ND	ND
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND	ND	ND
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND
13	Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND
14	Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	ND	ND	ND

(b) The Second List (13 SVHC Release in January, 2010 and March, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
16	Lead Chromate Δ	7758-97-6	ND	ND	ND
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND	ND	ND
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND	ND	ND
19	Tris (2-Chloroethyl) Phosphate	115-96-8	ND	ND	ND
20	2,4-Dinitrotoluene	121-14-2	ND	ND	ND
21	Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND
22	Coal Tar Pitch, High Temperature	65996-93-2	ND	ND	ND
23	Anthracene Oil	90640-80-5	ND	ND	ND
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	ND	ND	ND
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND	ND	ND
26	Anthracene Oil, Anthracene-low	90640-82-7	ND	ND	ND
27	Anthracene Oil, Anthracene Paste	90640-81-6	ND	ND	ND
28	Acrylamide	79-06-1	ND	ND	ND

(c) The Third List (8 SVHC Release in June, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
29	Boric Acid Δ	10043-35-3, 11113-50-1	ND	ND	ND
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	ND	ND	ND
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	ND	ND	ND
32	Sodium Chromate Δ	7775-11-3	ND	ND	ND
33	Potassium Chromate Δ	7789-00-6	ND	ND	ND
34	Ammonium Dichromate Δ	7789-09-5	ND	ND	ND
35	Potassium Dichromate Δ	7778-50-9	ND	ND	ND
36	Trichloroethylene	79-01-6	ND	ND	ND

(d) The Fourth List (8 SVHC Release in December, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
37	2-Methoxyethanol	109-86-4	ND	ND	ND
38	2-Ethoxyethanol	110-80-5	ND	ND	ND



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39	Cobalt Sulphate Δ	10124-43-3	ND	ND	ND
40	Cobalt Dinitrate Δ	10141-05-6	ND	ND	ND
41	Cobalt Carbonate Δ	513-79-1	ND	ND	ND
42	Cobalt Diacetate Δ	71-48-7	ND	ND	ND
43	Chromium Trioxide Δ	1333-82-0	ND	ND	ND
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	ND	ND	ND

(e) The Fifth List (7 SVHC Release in June, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
45	Strontium ChromateΔ	7789-06-2	ND	ND	ND
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	ND	ND	ND
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND
48	Hydrazine	7803-57-8 302-01-2	ND	ND	ND
49	1-methyl-2-pyrrolidone	872-50-4	ND	ND	ND
50	1,2,3-trichloropropane	96-18-4	ND	ND	ND
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND	ND	ND

(f) The Sixth List (20 SVHC Release in December, 2011)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
52	Lead dipicrateΔ	6477-64-1	ND	ND	ND
53	Lead styphnateΔ	15245-44-0	ND	ND	ND
54	Lead azide; Lead diazideΔ	13424-46-9	ND	ND	ND
55	Phenolphthalein	77-09-8	ND	ND	ND
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND	ND	ND
57	N,N-dimethylacetamide (DMAC)	127-19-5	ND	ND	ND
58	Trilead diarsenateΔ	3687-31-8	ND	ND	ND
59	Calcium arsenateΔ	7778-44-1	ND	ND	ND
60	Arsenic acidΔ	7778-39-4	ND	ND	ND
61	Bis(2-methoxyethyl) ether	111-96-6	ND	ND	ND
62	1,2-Dichloroethane	107-06-2	ND	ND	ND
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND	ND	ND
64	2-Methoxyaniline; o-Anisidine	90-04-0	ND	ND	ND
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND	ND	ND
67	Pentazinc chromate octahydroxideΔ	49663-84-5	ND	ND	ND
68	Potassium hydroxyoctaoxidizincate di-chromateΔ	11103-86-9	ND	ND	ND
69	Dichromium tris(chromate)Δ	24613-89-6	ND	ND	ND
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND	ND	ND

(g) The Seventh List (13 SVHC Release in June, 2012)



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Tests Conducted

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND	ND	ND
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	ND	ND
74	Diboron trioxide Δ	1303-86-2	ND	ND	ND
75	Formamide	75-12-7	ND	ND	ND
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND	ND	ND
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	ND	ND	ND
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	ND	ND	ND
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND	ND	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND	ND	ND
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	ND	ND
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND	ND	ND
83	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	ND	ND
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	ND	ND

(h) The Eighth List (54 SVHC Release in December, 2012)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	ND	ND
86	Pentacosafuorotridecanoic acid	72629-94-8	ND	ND	ND
87	Tricosafuorododecanoic acid	307-55-1	ND	ND	ND
88	Henicosafuoroundecanoic acid	2058-94-8	ND	ND	ND
89	Heptacosafuorotetradecanoic acid	376-06-7	ND	ND	ND
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND	ND	ND



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91	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7			
	cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3			
	trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3	ND	ND	ND
	[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].				
92	Hexahydromethylphthalic anhydride [1],	25550-51-0			
	Hexahydro-4-methylphthalic anhydride [2],	19438-60-9			
	Hexahydro-1-methylphthalic anhydride [3],	48122-14-1	ND	ND	ND
	Hexahydro-3-methylphthalic anhydride [4]	57110-29-9			
[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]					
93	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]	--	ND	ND	ND
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated				
	[covering well-defined substances and UVCB substances, polymers and homologues]	--	ND	ND	ND
95	Methoxyacetic acid	625-45-6	ND	ND	ND
96	N,N-dimethylformamide	68-12-2	ND	ND	ND
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	ND	ND	ND
98	Lead monoxide (Lead oxide) Δ	1317-36-8	ND	ND	ND
99	Orange lead (Lead tetroxide) Δ	1314-41-6	ND	ND	ND
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND	ND	ND
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND	ND	ND
102	Lead titanium trioxideΔ	12060-00-3	ND	ND	ND
103	Lead titanium zirconium oxideΔ	12626-81-2	ND	ND	ND
104	Silicic acid, lead salt Δ	11120-22-2	ND	ND	ND



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105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped Δ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND	ND	ND
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	ND	ND
107	Methyloxirane (Propylene oxide)	75-56-9	ND	ND	ND
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	ND	ND
109	Diisopentylphthalate (DIPP)	605-50-5	ND	ND	ND
110	N-pentyl-isopentylphthalate	776297-69-9	ND	ND	ND
111	1,2-diethoxyethane	629-14-1	ND	ND	ND
112	Acetic acid, lead salt, basic Δ	51404-69-4	ND	ND	ND
113	Lead oxide sulfate Δ	12036-76-9	ND	ND	ND
114	[Phthalato(2-)]dioxotrilead Δ	69011-06-9	ND	ND	ND
115	Dioxobis(stearato)trilead Δ	12578-12-0	ND	ND	ND
116	Fatty acids, C16-18, lead salts Δ	91031-62-8	ND	ND	ND
117	Lead cyanamidate Δ	20837-86-9	ND	ND	ND
118	Lead dinitrate Δ	10099-74-8	ND	ND	ND
119	Pentalead tetraoxide sulphate Δ	12065-90-6	ND	ND	ND
120	Pyrochlore, antimony lead yellow Δ	8012-00-8	ND	ND	ND
121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	ND	ND	ND
122	Tetraethyllead Δ	78-00-2	ND	ND	ND
123	Tetralead trioxide sulphate Δ	12202-17-4	ND	ND	ND
124	Trilead dioxide phosphonate Δ	12141-20-7	ND	ND	ND
125	Furan	110-00-9	ND	ND	ND
126	Diethyl sulphate	64-67-5	ND	ND	ND
127	Dimethyl sulphate	77-78-1	ND	ND	ND
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND	ND	ND
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND	ND	ND
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	ND	ND
131	4,4'-oxydianiline and its salts	101-80-4	ND	ND	ND
132	4-aminoazobenzene	60-09-3	ND	ND	ND
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND	ND	ND
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	ND	ND
135	Biphenyl-4-ylamine	92-67-1	ND	ND	ND
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND	ND	ND
137	o-toluidine	95-53-4	ND	ND	ND
138	N-methylacetamide	79-16-3	ND	ND	ND

(i) The Ninth List (6 SVHC Release in June, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
139	Cadmium Δ	7440-43-9	ND	ND	ND
140	Cadmium oxide Δ	1306-19-0	ND	ND	ND
141	Dipentyl phthalate (DPP)	131-18-0	ND	ND	ND



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Tests Conducted

142	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]	--	ND	ND	ND
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	ND	ND
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND	ND	ND

(j) The Tenth List (7 SVHC Release in December, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
145	Cadmium sulphide Δ	1306-23-6	ND	ND	ND
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND	ND	ND
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] - 5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND	ND	ND
148	Dihexyl phthalate	84-75-3	ND	ND	ND
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND	ND	ND
150	Lead di(acetate) Δ	301-04-2	ND	ND	ND
151	Trixylyl phosphate	25155-23-1	ND	ND	ND

(k) The Eleventh List (4 SVHC Release in June, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND
153	Cadmium chloride Δ	10108-64-2	ND	ND	ND
154	Sodium perborate; Perboric acid, sodium salt Δ	15120-21-5; 11138-47-9	ND	ND	ND
155	Sodium peroxometaborate Δ	7632-04-4	ND	ND	ND

(l) The Twelfth List (6 SVHC Release in December, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	ND	ND
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	ND	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	15571-58-1	ND	ND	ND
159	Cadmium fluoride Δ	7790-79-6	ND	ND	ND
160	Cadmium sulphate Δ	10124-36-4; 31119-53-6	ND	ND	ND



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Tests Conducted

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)Δ	--	ND	ND	ND
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(m) The Thirteenth List (2 SVHC Release in June, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	ND	ND	ND
163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	ND	ND	ND

(n) The Fourteenth List (5 SVHC Release in December, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
164	1,3-Propanesultone	1120-71-4	ND	ND	ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	ND	ND
166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	ND	ND
167	Nitrobenzene	98-95-3	ND	ND	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	ND	ND	ND

(o) The Fifteenth List (1 SVHC Release in June, 2016)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND	ND	ND

(p) The Sixteenth List (4 SVHC Release in January, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	ND	ND	ND
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7 Decanoic acid, nonadecafluoro-, sodium salt EC no.: -- CAS no.: 3830-45-3	--	ND	ND	ND



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Number: SHAH01536838

Tests Conducted

172	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	ND	ND	ND
173	p-(1,1-dimethylpropyl)phenol	80-46-6	ND	ND	ND

(q) The Seventeenth List (1 SVHC Release in July, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	ND	ND	ND

(r) The Eighteenth List (7 SVHC Release in January, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
175	Benz[a]anthracene	56-55-3	ND	ND	ND
176	Cadmium nitrate Δ	10325-94-7	ND	ND	ND
177	Cadmium carbonate Δ	513-78-0	ND	ND	ND
178	Cadmium hydroxide Δ	21041-95-2	ND	ND	ND
179	Chrysene	218-01-9	ND	ND	ND
180	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" TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	--	ND	ND	ND
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	--	ND	ND	ND

(s) The Nineteenth List (10 SVHC Release in June, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	ND	ND	ND
183	Decamethylcyclopentasiloxane (D5)	541-02-6	ND	ND	ND
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	ND	ND
185	Lead	7439-92-1	ND	ND	ND
186	Disodium octaborate Δ	12008-41-2	ND	ND	ND
187	Benzo[ghi]perylene	191-24-2	ND	ND	ND
188	Terphenyl hydrogenated	61788-32-7	ND	ND	ND
189	Ethylenediamine (EDA)	107-15-3	ND	ND	ND
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7	ND	ND	ND
191	Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND

(t) The Twentieth List (6 SVHC Release in January, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)



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Tests Conducted

192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND	ND	ND
193	Benzo[k]fluoranthene	207-08-9	ND	ND	ND
194	Fluoranthene	206-44-0	ND	ND	ND
195	Phenanthrene	85-01-8	ND	ND	ND
196	Pyrene	129-00-0	ND	ND	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	ND	ND	ND

(u) The Twenty-first List (4 SVHC Release in July, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
198	4-tert-butylphenol (PTBP)	98-54-4	ND	ND	ND
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND	ND	ND
200	2-methoxyethyl acetate	110-49-6	ND	ND	ND
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND	ND	ND

(v) The Twenty- second List (4 SVHC Release in Jan, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND	ND	ND
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	ND	ND
204	Diisohexyl phthalate	71850-09-4	ND	ND	ND
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	ND	ND	ND

(w) The Twenty-third List (4 SVHC Release in Jun, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
206	1-vinylimidazole	1072-63-5	ND	ND	ND
207	2-methylimidazole	693-98-1	ND	ND	ND
208	Butyl 4-hydroxybenzoate	94-26-8	ND	ND	ND
209	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND	ND	ND

(X) The Twenty-fourth List (2 SVHC Release in Jan, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	ND	ND	ND
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 Δ	-	ND	ND	ND



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Tests Conducted

(y) The Twenty-fifth List (8 SVHC Release in Jul, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
212	1,4-dioxane	123-91-1	ND	ND	ND
213	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	ND	ND	ND
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	ND	ND	ND
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	ND	ND	ND
216	Glutaral	111-30-8	ND	ND	ND
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	--	ND	ND	ND
218	Orthoboric acid, sodium salt Δ	13840-56-7	ND	ND	ND
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	ND	ND	ND

(z) The Twenty-sixth List (4 SVHC Release in Jan 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
220	(\pm)-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)	--	ND	ND	ND
221	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	119-47-1	ND	ND	ND
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 Δ	255881-94-8	ND	ND	ND
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND	ND	ND

(aa) The Twenty-seventh List (1 SVHC Release in Jun 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
224	N-(hydroxymethyl)acrylamide	924-42-5	ND	ND	ND

(ab) The Twenty-eighth List (9 SVHC Release in Jan 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	ND	ND	ND



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226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	ND	ND	ND
227	4,4'-sulphonyldiphenol	80-09-1	ND	ND	ND
228	Barium diboron tetraoxide Δ	13701-59-2	ND	ND	ND
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	ND	ND	ND
230	Isobutyl 4-hydroxybenzoate	4247-02-3	ND	ND	ND
231	Melamine	108-78-1	ND	ND	ND
232	Perfluoroheptanoic acid and its salts	--	ND	ND	ND
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	-	ND	ND	ND

(ac) The Twenty- ninth List (2 SVHC Release in June 2023)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
234	bis(4-chlorophenyl) sulphone (BCPS)	80-07-9	ND	ND	ND
235	Diphenyl (2,4,6- trimethylbenzoyl) phosphine oxide	75980- 60-8	ND	ND	ND

(ad) Proposed SVHC(List of 1 chemical in the draft Commission Implementing Decision proposed by European Commission, and published as Notification G/TBT/N/EU/803 on World Trade Organization (WTO) on 1 June 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)		
			(7)	(8)	(9)
1	Resorcinol	108-46-3	ND	ND	ND

Reporting limit=0.010% (raw material)

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

Notes:

1. Substances of very high concern (SVHC) are classified as:

- Carcinogenicity category 1A or 1B;
- Germ cell mutagenicity category 1A or 1B;
- Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- Persistent, bioaccumulative and toxic (PBT)
- Very persistent and very bioaccumulative (vPvB)
- Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disruptors

REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;



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- (d) Classification of the substance(s);
- (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- (f) Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

Tested Component(s): See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

6. Dimethyl Fumarate (DMFu) Content

With reference to PD CEN ISO/TS 16186: 2012, by solvent extraction, and followed by Gas Chromatography Mass Spectrometry (GC-MS) analysis.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	(6)		
Dimethyl Fumarate (DMFu)	ND	0.1	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EU) No 412/2012, Annex XVII Entry 61 on Dimethyl Fumarate (DMFu) content.

Remark: ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report .

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

7. Polycyclic Aromatic Hydrocarbons (PAHs) Content for GS Certification

As Per AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).



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Tests Conducted

(I) Test Results

Testing Item	CAS No.	Result (in mg/kg)				
		(1)	(2)	(3)	(4)	(5)
1.Phenanthrene	85-01-8	ND	ND	ND	ND	ND
2.Anthracene	120-12-7	ND	ND	ND	ND	ND
3.Fluoranthene	206-44-0	ND	ND	ND	ND	ND
4.Pyrene	129-00-0	ND	ND	ND	ND	ND
Sum (4 PAHs):	--	ND	ND	ND	ND	ND
5.Naphthalene	91-20-3	ND	ND	ND	ND	ND
6.Benzo(a)Anthracene	56-55-3	ND	ND	ND	ND	ND
7.Chrysene	218-01-9	ND	ND	ND	ND	ND
8.Indeno(1,2,3-cd)Pyrene	193-39-5	ND	ND	ND	ND	ND
9.Benzo(b)Fluoranthene	205-99-2	ND	ND	ND	ND	ND
10.Benzo(k)Fluoranthene	207-08-9	ND	ND	ND	ND	ND
11.Benzo(a)Pyrene	50-32-8	ND	ND	ND	ND	ND
12.Dibenzo(a,h)Anthracene	53-70-3	ND	ND	ND	ND	ND
13.Benzo(g,h,i)Perylene	191-24-2	ND	ND	ND	ND	ND
14.Benzo(e)Pyrene	192-97-2	ND	ND	ND	ND	ND
15. Benzo(j)Fluoranthene	205-82-3	ND	ND	ND	ND	ND
Sum (15 PAHs):	--	ND	ND	ND	ND	ND
Classification of Samples: Category		2a	2a	2a	2a	3a

ND= Not detected (less than reporting limit)

Reporting limit = 0.2 mg/kg

(II) Limits for PAHs in Products

Parameter	Category 1	Category 2	Category 3
/	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or -for the use by children up to 3 years of age	Materials that are not covered by Category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable 2a. used by children 2b. other consumer products	Materials that are not covered by Category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable 3a. used by children 3b. other consumer products



Test Report

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Tests Conducted

/	/	2a	2b	3a	3b
Phenanthrene	--	--	--	--	--
Anthracene	--	--	--	--	--
Fluoranthene	--	--	--	--	--
Pyrene	--	--	--	--	--
Sum (4 PAHs):	<1	<5	<10	<20	<50
Naphthalene	<1	<2	<2	<10	<10
Benzo(a)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)Perylene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Sum (15 PAHs):	<1	<5	<10	<20	<50

Tested Component(s): See component list in the last section of this report

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

8. Pentachlorophenol (PCP) Content

With reference to EN ISO 17070: 2015(Leather)/ LFGB § 64 BVL B 82.02.8-2001 (Textile)/ PD CEN/TR 14823: 2003 (Wood), solvent extraction was used and followed by Gas Chromatography-Mass Spectrometric (GC-MS) analysis.

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Requirement (mg/kg) (Max.)
	(6)	(9)		
Pentachlorophenol (PCP)	ND	ND	0.1	5

The limit was quoted according to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content.

Remark: ND = Not Detected (Less than detection limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

9. Organotin Content

With reference to ISO/TS 16179: 2012, organotin content was determined by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

Compound	Result (% , w/w) of tin					Requirement (% , w/w) of tin
	(1)	(2)	(3)	(4)	(5)	
Tri-substituted Organotin [®]	ND	ND	ND	ND	ND	0.1
Dibutyl tin (DBT)	ND	ND	ND	ND	ND	0.1
Diocetyl tin (DOT)	ND	ND	ND	ND	ND	0.1

Remark: The above requirement was quoted according to Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendment (EU) No.276/2010 for organotin content.

Remarks: Detection Limit = 0.001% (w/w) of tin

[®] = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin,

Tri-octyltin, Tri-cyclohexyltin

ND = Not Detected



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Number: SHAH01536838

Tests Conducted

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

10.Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) Content

By solvent extraction,determined by Gas Chromatography-Electron Capture Detector (GC-ECD) and Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCI-MS).

Tested Component	Result (%. w/w)
(1)	ND
(2)	ND
(3)	ND
(4)	ND
(5)	ND

Requirement:

Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Remark: Detection Limit = 0.01% (w/w)

ND = Not detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

11. Hexabromocyclododecane (HBCDD) Content

By solvent extraction and followed by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

Tested Component	Result (mg/kg)	Requirement (mg/kg) (Max.)
(3)	ND	100
(4)	ND	100
(5)	ND	100

Remark: ND=Not Detected

Detection Limit = 10mg/kg

Tested Component(s): See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

12.Phtalate Content

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Test Item	CAS No.	Result (%.w/w)						Reporting Limit (%.w/w)	Limit (%.w/w)
		(1)	(2)	(3)	(4)	(5)	(6)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	ND	ND	0.005	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	ND	ND	ND	ND	0.005	-



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Tests Conducted

Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	ND	ND	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	ND	ND	0.005	-
Sum of DBP, DEHP, BBP and DIBP	-	ND	ND	ND	ND	ND	ND	-	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

II. Annex XVII Item 52

Test Item	CAS No.	Result (%w/w)						Reporting Limit (%w/w)	Limit (%w/w)
		(1)	(2)	(3)	(4)	(5)	(6)		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	ND	ND	0.005	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	ND	ND	0.005	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	ND	ND	0.005	-
Sum of DINP, DNOP and DIDP	-	ND	ND	ND	ND	ND	ND	-	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: ND = Not Detected(Less than reporting limit)

W_{avg} = Average content of phthalate in composite samples

W_{max} = Maximum content of phthalate in individual sample

Tested Components: See component list in the last section of this report.

Date Sample Received: Jul 21, 2023

Testing Period: Jul 21, 2023 to Sep 06, 2023

Components List:

Tested components:

- (1) White coating on wood (stick)
- (2) Transparent Vanish coating on wood
- (3) Wooden sticker (surface)
- (4) Beige plastic (body)
- (5) Transparent soft plastic (chair leg pad)
- (6) Plywood
- (7) Coppery metal screw
- (8) Silvery metal screw (bottom of seat)
- (9) Wood excluding coating



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Tests Conducted



Picture 1: Submitted sample



Picture 2: Reference sample (846162)



Picture 3: Reference sample (846159)

Note:

The additional pictures "2-3" of reference sample were added to this report at the request of the client and has not been tested by Intertek. The client stated in the letter of guarantee that reference pictures "2-3" of reference sample are exactly the same as the material of the sample submitted in this report.

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End of report

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