

Flashbay Electronics
Building2, Jixun Industrial Park, Xinjiao, Dong'ao
Village, Shatian Town, Huiyang District, Huizhou
City, Guangdong Province, P.R.China

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TEST REPORT

Test Report No. : **4393785.59** Version 1

Project No. : **4393785.00**

Test Report Date : **2023-08-28**

Job No. : 22-02879

Applicant : Flashbay Electronics
Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian
Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China

Product Name : Pen Series

Model No. : Curve(CUR), Frosty(FRO), Quad (QD), Sleek(SLK)

Test Requested : Selected test(s) as requested by applicant, SVHC assessment is performed according to:
- Two hundred and thirty-five (235) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 2023 regarding Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Test Method : Please refer to next pages





Sample Received : 2022-08-16, 2023-08-16

Testing Period : 2022-08-16 to 2022-08-30, 2023-08-16 to 2023-08-25

Test Results

- following pages -

Resume:

<p>Parameter</p>	<p>Sample Photo:</p>	
		
		
<p>Two hundred and thirty-five (235) substances in the Candidate List of SVHC</p>	<p>According to the specified scope and analytical techniques, the concentration of tested SVHCs are <math><0.1(w/w)</math> in the submitted sample.</p>	

Guangzhou, August 28, 2023

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Chemical & Mechanical




Devin Ai
Laboratory Manager

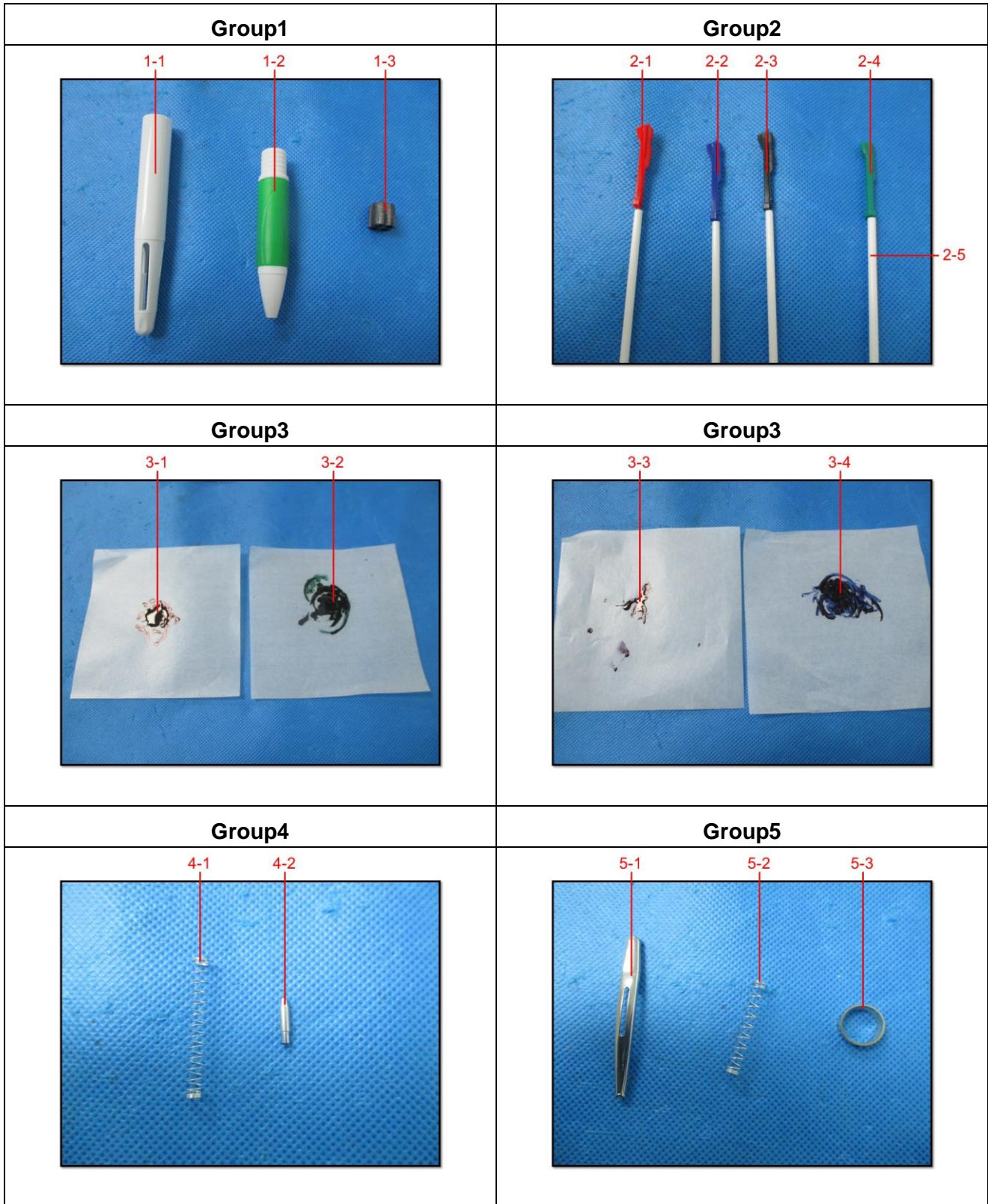
Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.


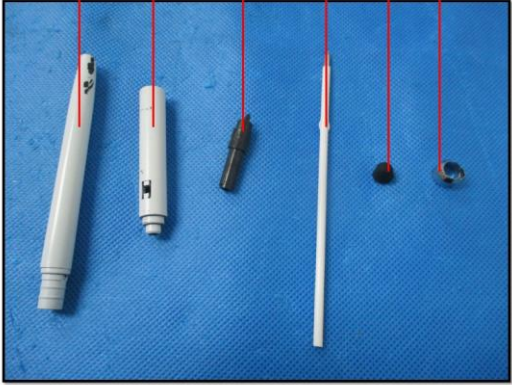
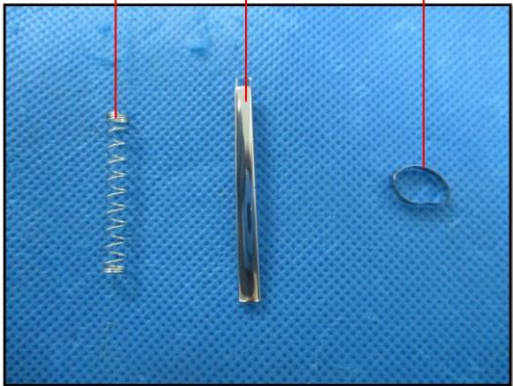

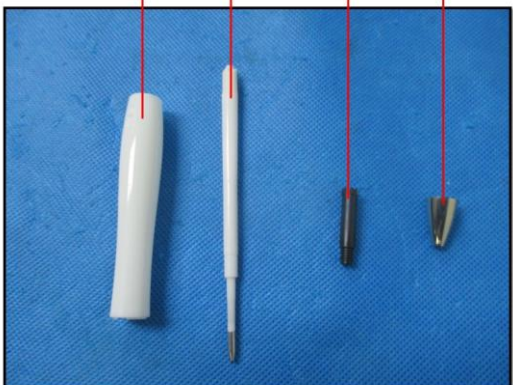
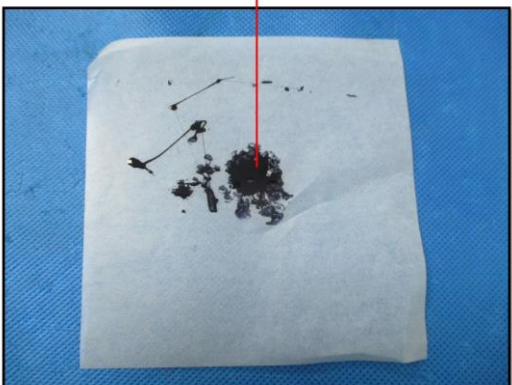
SAMPLE DESCRIPTION & QUANTITY AMOUNT


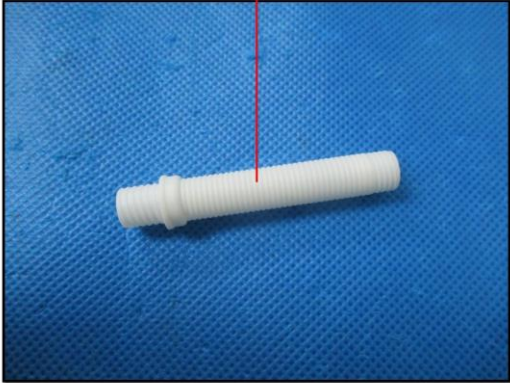
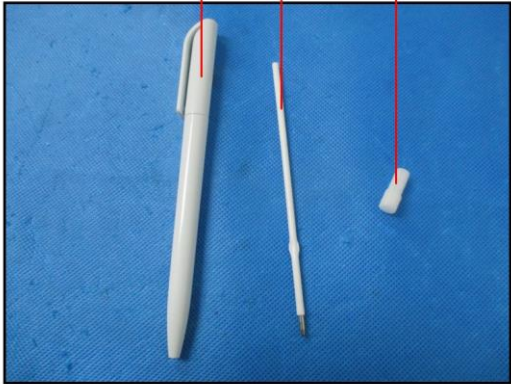
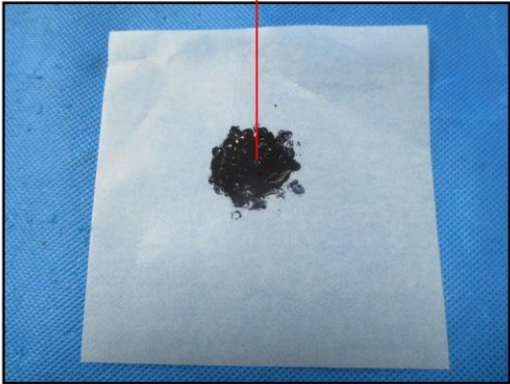

Group description:	
Group1	Plastic
Group2	Plastic
Group3	oil
Group4	Metal
Group5	Metal
Group6	Plastic
Group7	Plastic
Group8	Metal
Group9	Plastic
Group10	Plastic
Group11	Plastic
Group12	Plastic
Group13	Plastic

Note: According to client's specification, each part is same quantity sampling and perform testing.

Test group photo:



<p style="text-align: center;">Group6</p>  <p>6-1 6-2 6-3</p> <p>Group 6 contains three pens: 6-1 is a white pen with a black barrel and green accents; 6-2 is a white pen with a blue barrel and green accents; 6-3 is a white pen with a red barrel and blue accents.</p>	<p style="text-align: center;">Group7</p>  <p>7-1 7-2 7-3 7-4 7-5 7-6</p> <p>Group 7 contains six items: 7-1 is a white pen barrel; 7-2 is a white pen barrel with a clip; 7-3 is a black pen nib; 7-4 is a white pen barrel; 7-5 is a black pen nib; 7-6 is a metal ring.</p>
<p style="text-align: center;">Group8</p>  <p>8-1 8-2 8-3</p> <p>Group 8 contains three items: 8-1 is a metal spring; 8-2 is a metal pen nib; 8-3 is a metal ring.</p>	<p style="text-align: center;">Group9</p>  <p>9-1 9-2 9-3</p> <p>Group 9 contains three pens: 9-1 is a black pen; 9-2 is a blue pen; 9-3 is a red pen.</p>
<p style="text-align: center;">Group10</p>  <p>10-1 10-2 10-3 10-4</p> <p>Group 10 contains four items: 10-1 is a white pen barrel; 10-2 is a white pen barrel with a clip; 10-3 is a black pen nib; 10-4 is a metal pen nib.</p>	<p style="text-align: center;">Group10</p>  <p>10-5</p> <p>Group 10 contains a white paper with ink smudges and a pen nib, labeled 10-5.</p>

<p style="text-align: center;">Group11</p> <p style="text-align: center;">11-1 11-2 11-3</p> 	<p style="text-align: center;">Group11</p> <p style="text-align: center;">11-4</p> 
<p style="text-align: center;">Group12</p> <p style="text-align: center;">12-1 12-2 12-3</p> 	<p style="text-align: center;">Group12</p> <p style="text-align: center;">12-4</p> 
<p style="text-align: center;">Group13</p> <p style="text-align: center;">13-1 13-2 13-3</p> 	<p style="text-align: center;">BLANK</p>

TEST RESULTS

(I) SVHC testing results:

By Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), liquid chromatograph coupled with Inductively Coupled Plasma-Mass Spectrometry (LC-ICP-MS), Gas Chromatography Mass Spectrometer (GC-MS), UV-Visible Spectrophotometric and High Performance Liquid Chromatography analysis.

Chemical Substance	Result [% by Weight]				
	Tested Group(s)				
	(1)	(2)	(3)	(4)	(5)
Tested two hundred and twenty-four (224) substances in Chemical list	N.D.	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(6)	(7)	(8)	(9)
4-tert-pentylphenol (PTAP)	0.01	N.D.	N.D.	N.D.
Other tested two hundred and twenty-four (224) substances in Chemical list	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(10)	(11)	(12)	(13)
4-tert-butylphenol	0.007	N.D.	N.D.	N.D.
Other tested two hundred and twenty-four (224) substances in Chemical list	N.D.	N.D.	N.D.	N.D.

Note:

- The photo and the test data of Group1 ~ Group13 listed above were quoted from DEKRA report 4393785.50, date 2022-09-13.

Additional Eleven Substances Test Results:

Chemical Substance	Result [% by Weight]				
	Tested Group(s)				
	(1)	(2)	(3)	(4)	(5)
1,1'- [ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	N.D.	N.D.	N.D.	N.D.	N.D.
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-sulphonyldiphenol	N.D.	N.D.	N.D.	N.D.	N.D.
Barium diboron tetraoxide Δ	N.D.	N.D.	N.D.	N.D.	N.D.
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	N.D.	N.D.	N.D.	N.D.	N.D.
Isobutyl 4-hydroxybenzoate	N.D.	N.D.	N.D.	N.D.	N.D.
Melamine	N.D.	N.D.	N.D.	N.D.	N.D.
Perfluoroheptanoic acid and its salts	N.D.	N.D.	N.D.	N.D.	N.D.
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	N.D.	N.D.	N.D.	N.D.	N.D.
Bis(4-chlorophenyl) sulphone	N.D.	N.D.	N.D.	N.D.	N.D.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	N.D.	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(6)	(7)	(8)	(9)
1,1'- [ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	N.D.	N.D.	N.D.	N.D.
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(6)	(7)	(8)	(9)
4,4'-sulphonyldiphenol	N.D.	N.D.	N.D.	N.D.
Barium diboron tetraoxide Δ	N.D.	N.D.	N.D.	N.D.
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	N.D.	N.D.	N.D.	N.D.
Isobutyl 4-hydroxybenzoate	N.D.	N.D.	N.D.	N.D.
Melamine	N.D.	N.D.	N.D.	N.D.
Perfluoroheptanoic acid and its salts	N.D.	N.D.	N.D.	N.D.
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	N.D.	N.D.	N.D.	N.D.
Bis(4-chlorophenyl) sulphone	N.D.	N.D.	N.D.	N.D.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(10)	(11)	(12)	(13)
1,1'- [ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	N.D.	N.D.	N.D.	N.D.
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	N.D.	N.D.	N.D.	N.D.
4,4'-sulphonyldiphenol	N.D.	N.D.	N.D.	N.D.
Barium diboron tetraoxide Δ	N.D.	N.D.	N.D.	N.D.
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers	N.D.	N.D.	N.D.	N.D.

Chemical Substance	Result [% by Weight]			
	Tested Group(s)			
	(10)	(11)	(12)	(13)
and/or combinations thereof				
Isobutyl 4-hydroxybenzoate	N.D.	N.D.	N.D.	N.D.
Melamine	N.D.	N.D.	N.D.	N.D.
Perfluoroheptanoic acid and its salts	N.D.	N.D.	N.D.	N.D.
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	N.D.	N.D.	N.D.	N.D.
Bis(4-chlorophenyl) sulphone	N.D.	N.D.	N.D.	N.D.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	N.D.	N.D.	N.D.	N.D.

Note:

- The test results were based on the submitted sample components received in 2023-08-16.

Remark:

1. SVHC = Substance of very high concern
2. N.D. = Not detected (less than reporting limit)

(II) Tested SVHC Chemical list:

No.	Substance	CAS No.	Report Limit [%]
(1)	Anthracene	120-12-7	0.005
(2)	4,4'- Diaminodiphenylmethane	101-77-9	0.005
(3)	Dibutyl phthalate (DBP)	84-74-2	0.005
(4)	Cobalt dichloride Δ	7646-79-9	0.005
(5)	Diarsenic pentaoxide Δ	1303-28-2	0.005
(6)	Diarsenic trioxide Δ	1327-53-3	0.005
(7)	Sodium dichromate Δ	7789-12-0 10588-01-9	0.005
(8)	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.005
(9)	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.005

No.	Substance	CAS No.	Report Limit [%]
(10)	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.005
(11)	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.005
(12)	Bis(tributyltin)oxide (TBTO) Δ	56-35-9	0.005
(13)	Lead hydrogen arsenate Δ	7784-40-9	0.005
(14)	Benzyl butyl phthalate (BBP)	85-68-7	0.005
(15)	Triethyl arsenate Δ	15606-95-8	0.005
(16)	Anthracene oil	90640-80-5	0.05
(17)	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.05
(18)	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.05
(19)	Anthracene oil, anthracene-low	90640-82-7	0.05
(20)	Anthracene oil, anthracene paste	90640-81-6	0.05
(21)	Pitch, coal tar, high temp.	65996-93-2	0.05
(22)	Aluminosilicate Refractory Ceramic Fibres Δ	650-017-00-8	0.005
(23)	Zirconia Aluminosilicate, Refractory Ceramic Fibres Δ	650-017-00-8	0.005
(24)	2,4-Dinitrotoluene	121-14-2	0.01
(25)	Diisobutyl phthalate	84-69-5	0.01
(26)	Lead chromate Δ	7758-97-6	0.01
(27)	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) Δ	12656-85-8	0.005
(28)	Lead sulfochromate yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	0.01
(29)	Tris(2-chloroethyl)phosphate(TCEP)	115-96-8	0.01
(30)	Acrylamide	79-06-1	0.01
(31)	Trichloroethylene	79-01-6	0.01
(32)	Boric Acid Δ	10043-35-3 11113-50-1	0.01
(33)	Disodium tetraborate, anhydrous Δ	1303-96-4 1330-43-4 12179-04-3	0.01
(34)	Tetraboron disodium heptaoxide, hydrate Δ	12267-73-1	0.01
(35)	Sodium chromate Δ	7775-11-3	0.01
(36)	Potassium chromate Δ	7789-00-6	0.01
(37)	Ammonium dichromate Δ	7789-09-5	0.01
(38)	Potassium dichromate Δ	7778-50-9	0.01
(39)	Cobalt(II) sulphate Δ	10124-43-3	0.01
(40)	Cobalt(II) dinitrate Δ	10141-05-6	0.01
(41)	Cobalt(II) carbonate Δ	513-79-1	0.01
(42)	Cobalt(II) diacetate Δ	71-48-7	0.01
(43)	2-Methoxyethanol	109-86-4	0.01
(44)	2-Ethoxyethanol	110-80-5	0.01

No.	Substance	CAS No.	Report Limit [%]
(45)	Chromium trioxide Δ	1333-82-0	0.01
(46)	Acids generated from chromium trioxide and their oligomers: a.Chromic acid Δ b.Dichromic acid Δ c.Oligomers of chromic acid and dichromic acid Δ	7738-94-5 13530-68-2	0.01
(47)	2-Ethoxyethyl acetate (2-EEA)	111-15-9	0.01
(48)	Strontium chromate Δ	7789-06-2	0.01
(49)	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.01
(50)	Hydrazine	7803-57-8, 302-01-2	0.01
(51)	1-Methyl-2-pyrrolidone	872-50-4	0.01
(52)	1,2,3-Trichloropropane	96-18-4	0.01
(53)	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01
(54)	1,2-Dichloroethane	107-06-2	0.01
(55)	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01
(56)	2-Methoxyaniline, o-Anisidine	90-04-0	0.01
(57)	4-(1,1,3,3-Tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	0.01
(58)	Arsenic acid Δ	7778-39-4	0.01
(59)	Bis(2-methoxyethyl) ether	111-96-6	0.01
(60)	Bis(2-methoxyethyl) phthalate	117-82-8	0.01
(61)	Calcium arsenate Δ	7778-44-1	0.01
(62)	Dichromium tris(chromate) Δ	24613-89-6	0.01
(63)	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.01
(64)	Lead diazide Δ	13424-46-9	0.01
(65)	Lead dipicrate Δ	6477-64-1	0.01
(66)	Lead styphnate Δ	15245-44-0	0.01
(67)	N,N-dimethylacetamide (DMAC)	127-19-5	0.05
(68)	Pentazinc chromate octahydroxide Δ	49663-84-5	0.05
(69)	Phenolphthalein	77-09-8	0.01
(70)	Potassium hydroxyoctaoxodizincatedichromate Δ	11103-86-9	0.01
(71)	Trilead diarsenate Δ	3687-31-8	0.01
(72)	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.01
(73)	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
(74)	Diboron trioxide Δ	1303-86-2	0.01
(75)	Formamide	75-12-7	0.01
(76)	Lead(II) bis(methanesulfonate) Δ	17570-76-2	0.05
(77)	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	0.01
(78)	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	0.01
(79)	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.01

No.	Substance	CAS No.	Report Limit [%]
(80)	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.01
(81)	[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	0.01
(82)	[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	0.01
(83)	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	0.01
(84)	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	0.01
(85)	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.01
(86)	N,N-dimethylformamide; dimethyl formamide	68-12-2	0.01
(87)	Methoxy acetic acid	625-45-6	0.01
(88)	Dibutyltin dichloride (DBT) Δ	683-18-1	0.01
(89)	1,2-Diethoxyethane	629-14-1	0.01
(90)	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.01
(91)	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.01
(92)	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	-	0.01
(93)	Heptacosafuorotetradecanoic acid	376-06-7	0.01
(94)	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01
(95)	Henicosafuoroundecanoic acid	2058-94-8	0.01
(96)	N-pentyl-isopentylphthalate (iPnPP)	776297-69-9	0.01
(97)	Pentacosafuorotridecanoic acid	72629-94-8	0.01
(98)	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	0.01
(99)	Tricosafuorododecanoic acid	307-55-1	0.01
(100)	Lead bis(tetrafluoroborate) Δ	13814-96-5	0.01
(101)	Lead tetroxide (orange lead) Δ	1314-41-6	0.01

No.	Substance	CAS No.	Report Limit [%]
(102)	Diethyl sulphate	64-67-5	0.01
(103)	Dinoseb	88-85-7	0.01
(104)	Lead Titanium Zirconium Oxide Δ	12626-81-2	0.01
(105)	Acetic acid, lead salt, basic Δ	51404-69-4	0.01
(106)	Furan	110-00-9	0.01
(107)	N-methylacetamide	79-16-3	0.01
(108)	o-Toluidine; 2-Aminotoluene	95-53-4	0.01
(109)	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01
(110)	4,4'-oxydianiline and its salts	101-80-4	0.01
(111)	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	0.01
(112)	Lead titanium trioxide Δ	12060-00-3	0.01
(113)	Lead oxide sulphate Δ	12036-76-9	0.01
(114)	Lead dinitrate Δ	10099-74-8	0.01
(115)	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	0.01
(116)	Lead cyanamidate Δ	20837-86-9	0.01
(117)	Tetralead trioxide sulphate Δ	12202-17-4	0.01
(118)	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	0.01
(119)	Pyrochlore, antimony lead yellow Δ	8012-00-8	0.01
(120)	Trilead bis(carbonate)dihydroxide (basic lead carbonate) Δ	1319-46-6	0.01
(121)	Dimethyl sulphate	77-78-1	0.01
(122)	Dioxobis(stearato)trilead Δ	12578-12-0	0.01
(123)	Silicic acid, barium salt, lead-doped Δ	68784-75-8	0.01
(124)	Biphenyl-4-ylamine	92-67-1	0.01
(125)	Lead oxide (lead monoxide) Δ	1317-36-8	0.01
(126)	Pentalead tetraoxide sulphate Δ	12065-90-6	0.01
(127)	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	0.01
(128)	Silicic acid, lead salt Δ	11120-22-2	0.01
(129)	Trilead dioxide phosphonate Δ	12141-20-7	0.01
(130)	o-aminoazotoluene	97-56-3	0.01
(131)	1-bromopropane	106-94-5	0.01
(132)	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01
(133)	4,4'-methylenedi-o-toluidine	838-88-0	0.01
(134)	Tetraethyllead Δ	78-00-2	0.01
(135)	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	0.01
(136)	Fatty acids, C16-18, lead salts Δ	91031-62-8	0.01
(137)	Diisopentylphthalate	605-50-5	0.01
(138)	Diazene-1,2-dicarboxamide(C,C'-azodi(formamide))	123-77-3	0.01
(139)	Cadmium	7440-43-9	0.005
(140)	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01
(141)	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01
(142)	Dipentyl phthalate (DPP)	131-18-0	0.005

No.	Substance	CAS No.	Report Limit [%]
(143)	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]	-	0.01
(144)	Cadmium oxide Δ	1306-19-0	0.01
(145)	Cadmium sulphide Δ	1306-23-6	0.01
(146)	Di-n-hexyl phthalate (DnHP)	84-75-3	0.01
(147)	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.005
(148)	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.005
(149)	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	0.01
(150)	Lead di(acetate) Δ	301-04-2	0.01
(151)	Trixylyl phosphate	25155-23-1	0.01
(152)	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
(153)	Cadmium chloride Δ	10108-64-2	0.005
(154)	Sodium perborate; perboric acid, sodium salt Δ	-	0.01
(155)	Sodium peroxometaborate Δ	7632-04-4	0.01
(156)	Cadmium fluoride Δ	7790-79-6	0.01
(157)	Cadmium sulphate Δ	10124-36-4; 31119-53-6	0.01
(158)	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01
(159)	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
(160)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	15571-58-1	0.01
(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	15571-58-1; 27107-89-7	0.01
(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	68515-51-5; 68648-93-1	0.01
(163)	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	117933-89-8	0.01
(164)	1,3-propanesultone	1120-71-4	0.01
(165)	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)	3864-99-1	0.01
(166)	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	36437-37-3	0.01
(167)	Nitrobenzene	98-95-3	0.01
(168)	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1	0.01

No.	Substance	CAS No.	Report Limit [%]
		21049-39-8 4149-60-4	
(169)	Benzo[def]chrysene	50-32-8	0.01
(170)	4,4'-isopropylidenediphenol (bisphenol A)	80-5-7	0.01
(171)	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.01
(172)	4-heptylphenol, branched and linear (4-HPbl)	---	0.01
(173)	4-tert-pentylphenol (PTAP)	80-46-6	0.01
(174)	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	--	0.005
(175)	Chrysene	218-01-9	0.005
(176)	Benz[a]anthracene	56-55-3	0.005
(177)	Cadmium nitrate Δ	10325-94-7	0.005
(178)	Cadmium carbonate Δ	513-78-0	0.005
(179)	Cadmium hydroxide Δ	21041-95-2	0.005
(180)	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3	0.005
(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]	--	0.005
(182)	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.02
(183)	Decamethylcyclopentasiloxane (D5)	541-02-6	0.02
(184)	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.02
(185)	Lead	7439-92-1	0.005
(186)	Disodium octaborate Δ	12008-41-2	0.005
(187)	Benzo[ghi]perylene	191-24-2	0.005
(188)	Terphenyl hydrogenated	61788-32-7	0.005
(189)	Ethylenediamine (EDA)	107-15-3	0.005
(190)	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimelliticanhydride) (TMA)	552-30-7	0.005
(191)	Dicyclohexyl phthalate (DCHP)	84-61-7	0.005
(192)	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.005
(193)	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.005
(194)	Benzo[k]fluoranthene	207-08-9	0.005
(195)	Fluoranthene	206-44-0; 93951-69-0	0.005
(196)	Phenanthrene	85-01-8	0.005
(197)	Pyrene	129-00-0; 1718-52-1	0.005
(198)	2-methoxyethyl acetate	110-49-6	0.005
(199)	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq	--	0.005

No.	Substance	CAS No.	Report Limit [%]
	0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		
(200)	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--	0.005
(201)	4-tert-butylphenol	98-54-4	0.005
(202)	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.005
(203)	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.005
(204)	Diisohexyl phthalate	71850-09-4	0.005
(205)	Perfluorobutane sulfonic acid (PFBS) and its salts	--	0.005
(206)	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	0.005
(207)	butyl 4-hydroxybenzoate	94-26-8	0.005
(208)	2-methylimidazole	693-98-1	0.005
(209)	1-vinylimidazole	1072-63-5	0.005
(210)	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.005
(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	--	0.01
(212)	1,4-dioxane	123-91-1	0.01
(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	0.01
(214)	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	0.01
(215)	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.01
(216)	Glutaral	111-30-8	0.01
(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)	--	0.01
(218)	Orthoboric acid, sodium salt	13840-56-7	0.01
(219)	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	0.01
(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)	--	0.01
(221)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.01
(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	255881-94-8	0.01
(223)	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01

No.	Substance	CAS No.	Report Limit [%]
(224)	N-(hydroxymethyl)acrylamide	924-42-5	0.01
(225)	1,1'- [ethane-1,2- diylbisoxy]bis[2,4,6- tribromobenzene]	37853-59-1	0.01
(226)	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol	79-94-7	0.01
(227)	4,4'-sulphonyldiphenol	80-09-1	0.01
(228)	Barium diboron tetraoxide Δ	13701-59-2	0.01
(229)	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	0.01
(230)	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
(231)	Melamine	108-78-1	0.01
(232)	Perfluoroheptanoic acid and its salts	--	0.01
(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	--	0.01
(234)	Bis(4-chlorophenyl) sulphone	80-07-9	0.01
(235)	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01

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

Notes:

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

---End of Report---