

Test Report No.: 0164129716b 001

Page 1 of 16

Client: Hangzhou Hikvision Digital Technology Co., Ltd.
No.555 Qianmo Road,Binjiang District Hangzhou, P. R. China

Test item(s): Color Camera

**Identification/
Model No(s):** Test Model No(s): DS-2CE19H8T-AIT3ZF, DS-2CE79H8T-TI3ZF

Sample Receiving date: 2018-05-23, 2018-06-25

Testing Period: 2018-06-28 to 2018-07-06

Test specification:

Customer Requirement:

1. Risk Assessment of Articles: Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013 ,(EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA), according to the EU Court of Justice rules on SVHCs in articles (Guidance on requirements for substances in articles, June 2017)

Substances identified to be included in the candidate list of SVHCs- defined in Articles 57 of Regulation (EC) No. 1907/2006 according to commission implementing decision (EU) 2018/594 and (EU) 2018/636

Test result:

Please refer to page 6-14

Other Information:

According to customer's requirement, only the appointed materials have been tested.

**For and on behalf of
TÜV Rheinland (Shenzhen) Co., Ltd.**



2018-07-18 Patrick Wan / Senior Project Engineer

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



Reference Style No(s). DS-2CE19H8T-IT3ZF, DS-2CE59H8T-AVPIT3ZF, DS-2CE56H8T-AITZF, DS-2CE5AH8T-AVPIT3ZF, DS-2CE59H8T-VPIT3ZF, DS-2CE56H8T-ITZF, DS-2CE5AH8T-VPIT3ZF, DS-2CE19U1T-AIT3ZF, DS-2CE19U1T-IT3ZF, DS-2CE59U1T-AVPIT3ZF, DS-2CE59U1T-VPIT3ZF, DS-2CE5AU1T-VPIT3ZF, DS-2CE56U1T-AITZF, DS-2CE56U1T-ITZF, DS-2CE79U1T-IT3ZF, DS-2CE19U7T-AIT3ZF, DS-2CE19U7T-IT3ZF, DS-2CE59U7T-AVPIT3ZF, DS-2CE59U7T-VPIT3ZF, DS-2CE79U7T-IT3ZF, DS-2CE5AU7T-AVPIT3ZF, DS-2CE5AU7T-VPIT3ZF, DS-2CE19H8T-IT3ZFUHK, DS-2CE19H8T-IT3ZFCKV, DS-2CE19H8T-IT3ZFUVS, DS-2CE19H8T-IT3ZFKVO, DS-2CE19H8T-IT3ZFHUN, DS-2CE19H8T-AIT3ZFUHK, DS-2CE19H8T-AIT3ZFCKV, DS-2CE19H8T-AIT3ZFUVS, DS-2CE19H8T-AIT3ZFKVO, DS-2CE19H8T-AIT3ZFHUN, DS-2CE79H8T-IT3ZFUHK, DS-2CE79H8T-IT3ZFCKV, DS-2CE79H8T-IT3ZFUVS, DS-2CE79H8T-IT3ZFKVO, DS-2CE79H8T-IT3ZFHUN, DS-2CE59H8T-AVPIT3ZFUHK, DS-2CE59H8T-AVPIT3ZFCKV, DS-2CE59H8T-AVPIT3ZFUVS, DS-2CE59H8T-AVPIT3ZFKVO, DS-2CE59H8T-AVPIT3ZFHUN, DS-2CE56H8T-AITZFUHK, DS-2CE56H8T-AITZFCKV, DS-2CE56H8T-AITZFUVS, DS-2CE56H8T-AITZFKVO, DS-2CE56H8T-AITZFHUN, DS-2CE5AH8T-AVPIT3ZFUHK, DS-2CE5AH8T-AVPIT3ZFCKV, DS-2CE5AH8T-AVPIT3ZFUVS, DS-2CE5AH8T-AVPIT3ZFKVO, DS-2CE5AH8T-AVPIT3ZFHUN, DS-2CE59H8T-VPIT3ZFUHK, DS-2CE59H8T-VPIT3ZFCKV, DS-2CE59H8T-VPIT3ZFUVS, DS-2CE59H8T-VPIT3ZFKVO, DS-2CE59H8T-VPIT3ZFHUN, DS-2CE56H8T-ITZFUHK, DS-2CE56H8T-ITZFCKV, DS-2CE56H8T-ITZFUVS, DS-2CE56H8T-ITZFKVO, DS-2CE56H8T-ITZFHUN, DS-2CE5AH8T-VPIT3ZFUHK, DS-2CE5AH8T-VPIT3ZFCKV, DS-2CE5AH8T-VPIT3ZFUVS, DS-2CE5AH8T-VPIT3ZFKVO, DS-2CE5AH8T-VPIT3ZFHUN, DS-2CE19U1T-AIT3ZFUHK, DS-2CE19U1T-AIT3ZFCKV, DS-2CE19U1T-AIT3ZFUVS, DS-2CE19U1T-AIT3ZFKVO, DS-2CE19U1T-AIT3ZFHUN, DS-2CE19U7T-AIT3ZFUHK, DS-2CE19U7T-AIT3ZFCKV, DS-2CE19U7T-AIT3ZFUVS, DS-2CE19U7T-AIT3ZFKVO, DS-2CE19U7T-AIT3ZFHUN, DS-2CE19U1T-IT3ZFUHK, DS-2CE19U1T-IT3ZFCKV, DS-2CE19U1T-IT3ZFUVS, DS-2CE19U1T-IT3ZFKVO, DS-2CE19U1T-IT3ZFHUN, DS-2CE19U7T-IT3ZFUHK, DS-2CE19U7T-IT3ZFCKV, DS-2CE19U7T-IT3ZFUVS, DS-2CE19U7T-IT3ZFKVO, DS-2CE19U7T-IT3ZFHUN, DS-2CE59U1T-AVPIT3ZFUHK, DS-2CE59U1T-AVPIT3ZFCKV, DS-2CE59U1T-AVPIT3ZFUVS, DS-2CE59U1T-AVPIT3ZFKVO, DS-2CE59U1T-AVPIT3ZFHUN, DS-2CE59U7T-AVPIT3ZFUHK, DS-2CE59U7T-AVPIT3ZFCKV, DS-2CE59U7T-AVPIT3ZFUVS, DS-2CE59U7T-AVPIT3ZFKVO, DS-2CE59U7T-AVPIT3ZFHUN, DS-2CE59U1T-VPIT3ZFUHK, DS-2CE59U1T-VPIT3ZFCKV, DS-2CE59U1T-VPIT3ZFUVS, DS-2CE59U1T-VPIT3ZFKVO, DS-2CE59U1T-VPIT3ZFHUN, DS-2CE59U7T-VPIT3ZFUHK, DS-2CE59U7T-VPIT3ZFCKV, DS-2CE59U7T-VPIT3ZFUVS, DS-2CE59U7T-VPIT3ZFKVO, DS-2CE59U7T-VPIT3ZFHUN, DS-2CE5AU1T-AVPIT3ZFUHK, DS-2CE5AU1T-AVPIT3ZFCKV, DS-2CE5AU1T-AVPIT3ZFUVS, DS-2CE5AU1T-AVPIT3ZFKVO, DS-2CE5AU1T-AVPIT3ZFHUN, DS-2CE5AU7T-AVPIT3ZFUHK, DS-2CE5AU7T-AVPIT3ZFCKV, DS-2CE5AU7T-AVPIT3ZFUVS, DS-2CE5AU7T-AVPIT3ZFKVO, DS-2CE5AU7T-AVPIT3ZFHUN, DS-2CE5AU1T-VPIT3ZFUHK, DS-2CE5AU1T-VPIT3ZFCKV, DS-2CE5AU1T-VPIT3ZFUVS, DS-2CE5AU1T-VPIT3ZFKVO, DS-2CE5AU1T-VPIT3ZFHUN, DS-2CE5AU7T-VPIT3ZFUHK, DS-2CE5AU7T-VPIT3ZFCKV, DS-2CE5AU7T-VPIT3ZFUVS, DS-2CE5AU7T-VPIT3ZFKVO, DS-2CE5AU7T-VPIT3ZFHUN, DS-2CE5AU1T-AVPIT3ZFUHK, DS-2CE5AU1T-AVPIT3ZFCKV, DS-2CE5AU1T-AVPIT3ZFUVS, DS-2CE5AU1T-AVPIT3ZFKVO, DS-2CE5AU1T-AVPIT3ZFHUN, DS-2CE5AU1T-VPIT3ZFUHK, DS-2CE5AU1T-VPIT3ZFCKV, DS-2CE5AU1T-VPIT3ZFUVS, DS-2CE5AU1T-VPIT3ZFKVO, DS-2CE5AU1T-VPIT3ZFHUN, DS-2CE79U1T-IT3ZFUHK, DS-2CE79U1T-IT3ZFCKV, DS-2CE79U1T-IT3ZFUVS, DS-2CE79U1T-IT3ZFKVO, DS-2CE79U1T-IT3ZFHUN, DS-2CE79U7T-IT3ZFUHK, DS-2CE79U7T-IT3ZFCKV, DS-2CE79U7T-IT3ZFUVS, DS-2CE79U7T-IT3ZFKVO, DS-2CE79U7T-IT3ZFHUN



Material list

Material No.	Material	Color	Location
M001	Metal + coating	Silvery/ white	Refer to photo
M002	Metal + coating	Silvery/ white	Refer to photo
M003	Plastic	White	Refer to photo
M004	Metal	Silvery	Refer to photo
M005	Metal	Silvery	Refer to photo
M006	Plastic	Grey	Refer to photo
M007	Plastic	Grey	Refer to photo
M008	Plastic	Grey	Refer to photo
M009	Plastic	Red	Refer to photo
M010	Plastic	Green	Refer to photo
M011	Plastic	Yellow	Refer to photo
M012	Metal	Silvery	Refer to photo
M013	Plastic	Grey	Refer to photo
M014	Plastic	Grey	Refer to photo
M015	Plastic	Transparent	Refer to photo
M016	Metal	Silvery	Refer to photo
M017	Plastic	White	Refer to photo
M018	Plastic	White	Refer to photo
M019	Plastic	Brown	Refer to photo
M020	Plastic	Black	Refer to photo



Material No.	Material	Color	Location
M021	Plastic	Black	Refer to photo
M022	Metal	Silvery	Refer to photo
M023	Plastic	Black	Refer to photo
M024	Plastic	Black	Refer to photo
M025	Metal	Silvery	Refer to photo
M026	Metal	Silvery	Refer to photo
M027	Plastic	Black	Refer to photo
M028	PCB board	Dark green	Refer to photo
M029	Plastic	Black	Refer to photo
M030	Plastic + adhesive	Orange	Refer to photo
M031	Plastic	Black	Refer to photo
M032	Plastic	Red	Refer to photo
M033	Plastic	Black	Refer to photo
M034	Plastic	Red	Refer to photo
M035	Metal + coating	Silvery/ black	Refer to photo
M036	Glass	Transparent	Refer to photo
M037	Plastic	Black	Refer to photo
M038	Metal + coating	Silvery/ black	Refer to photo
M039	Plastic	Transparent	Refer to photo
M040	Plastic	Black	Refer to photo
M041	Plastic	Red	Refer to photo
M042	Plastic	Orange	Refer to photo
M043	Plastic	Yellow	Refer to photo
M044	Plastic	Purple	Refer to photo



Material No.	Material	Color	Location
M045	Plastic	Green	Refer to photo
M046	Plastic	White	Refer to photo
M047	Plastic	Black	Refer to photo
M048	Plastic	Red	Refer to photo
M049	Plastic	Blue	Refer to photo
M050	PCB board	Dark green	Refer to photo
M051	Metal	Silvery	Refer to photo
M052	Plastic + adhesive	White	Refer to photo
M053	Metal	Silvery	Refer to photo
M054	Metal + plating	Silvery/ black	Refer to photo
M055	Plastic	Black	Refer to photo
M056	Plastic	Black	Refer to photo
M057	Glass	Transparent	Refer to photo
M058	Metal + coating	Silvery/ white	Refer to photo
M059	Metal + coating	White	Refer to photo
M060	Plastic	Black	Refer to photo
M061	Plastic	Black	Refer to photo
M062	Plastic	White	Refer to photo
M063	Metal + coating	Silvery/ white	Refer to photo



1. Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA), according to the EU Court of Justice rules on SVHCs in articles.

Substances identified to be included in the candidate list of SVHCs- defined in Articles 57 of Regulation (EC) No. 1907/2006 according to commission implementing decision (EU) 2018/594 and (EU) 2018/636

Product Classification

With reference to Corrigendum to Regulation (EC) no.1907/2006 and ECHA, this product is classified as:

- Article
- Article with an integral substance/ mixture
- Combinations of an article (functioning as a container or a carrier material) and a substance/ mixture
- Substance/ mixture

Conclusion:

Conclusion			
Product Location	Acc. to authorisation list (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and candidate list by ECHA, and the EU Court of Justice rules on SVHCs in articles, the detected SVHC concentration in components level is	Obligation of Importer (*) (For article)	Detected Substance (if any)
All tested articles of Sample 1/2	<0.1%	Not necessary	No SVHCs more than 0.1% in Article

(*) To communicate information down the supply chain according to article. 33 of REACH. **OR**

- Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company.
- Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.



Test results
Screening of SVHCs subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013 and (EU) No 895/2014 and (EU) No. 2017/999 (Annex XIV of EC No 1907/2006) and SVHCs in candidate list by European Chemical Agency (ECHA), and the EU Court of Justice rules on SVHCs in articles

Substances identified to be included in the candidate list of SVHCs- defined in Articles 57 of Regulation (EC) No. 1907/2006 according to commission implementing decision (EU) 2018/594 and (EU) 2018/636

- Test Method:
- 1) Test portion is digested with acid and assisted with microwave, the elements are analysed by ICP-OES.
 - 2) Test portion is extracted by organic solvent, semi-quantitative analysis by GC-MS / UV-Vis.
 - 3) Test portion is extracted by organic solvent, the extraction solution is analyzed by Headspace-GC/MS / LC-DAD-MS / LC-MS/MS.
 - 4) A representative test portion is prepared by cryogenic milling.

Test No.:	T001	T002	T003
Material No.:	M001 + M002 + M004 + M005 + M012 + M016 + M022 + M025 + M026 + M035	M038 + M051 + M053 + M054 + M058 + M059 + M063	M003 + M017 + M018 + M019 + M020 + M027 + M055 + M056 + M060 + M061
Result (%)	n.d.	n.d.	n.d.
Test No.:	T004	T005	T006
Material No.:	M006 + M007 + M008 + M009 + M010 + M011 + M013 + M014 + M015 + M021	M023 + M024 + M029 + M030 + M031 + M032 + M033 + M034 + M037 + M040	M041 + M042 + M043 + M044 + M045 + M046 + M047 + M048 + M049 + M052
Result (%)	n.d.	n.d.	n.d.
Test No.:	T007	T008	
Material No.:	M028 + M039 + M050 + M062	M036 + M057	
Result (%)	N,N-dimethylformamide: 0.01; others: n.d.	n.d.	

Abbreviation:

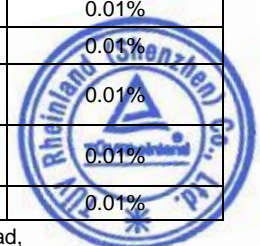
- n.d. = Not Detected (< Reporting Limit)
 RL = Reporting Limit
 % = Percentage



Remark:

(*1) The reporting limit for each individual SVHC subject to authorisation according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013, (EU) No 895/2014 and (EU) No 2017/999 (Annex XIV of EC No 1907/2006):

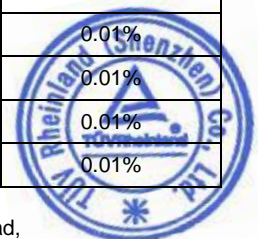
	Substances	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate	115-96-8	0.01%
10	Diarsenic pentaoxide (*3)	1303-28-2	0.01%
11	Diarsenic trioxide (*3)	1327-53-3	0.01%
12	Lead chromate (*3)(*4)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*3)(*4)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*3)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide (*4)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. (*4)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate (*3)	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate (*4)	7778-50-9	0.01%
20	Ammonium dichromate (*4)	7789-09-5	0.01%
21	Potassium chromate (*4)	7789-00-6	0.01%
22	Sodium chromate (*4)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*11)	25214-70-4	0.01%
24	1,2-Dichloroethane	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether	111-96-6	0.01%
26	Arsenic acid (*3)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*4)	24613-89-6	0.01%
29	Strontium chromate (*4)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*4)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*4)	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
33	Diisopentylphthalate	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01%
35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4	0.01%
36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%



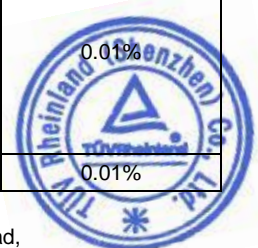
	Substances	CAS No.	Reporting Limit
37	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
38	Dipentyl phthalate (DPP)	131-18-0	0.01%
39	N-pentyl-isopentylphthalate	776297-69-9	0.01%
40	Anthracene oil (*7)	90640-80-5	0.01%(*8)
41	Pitch, coal tar, high temperature (*7)	65996-93-2	0.01%
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.01%
43	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%

(*2) The reporting limit for each individual SVHC in Candidate List by ECHA:

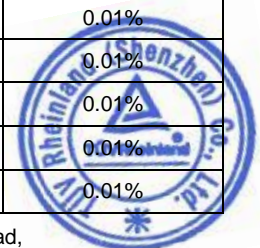
	Substances	CAS No.	Reporting Limit
44	Anthracene	120-12-7	0.01%
45	Bis(tributyltin) oxide (TBTO) (*3) (*5)	56-35-9	0.01%
46	Triethyl arsenate (*3)	15606-95-8	0.01%
47	Lead hydrogen arsenate (*3)	7784-40-9	0.01%
48	Cobalt dichloride (*3)	7646-79-9	0.01%
49	Acrylamide	79-06-1	0.01%
50	Anthracene oil, anthracene paste, distn. lights (*7)	91995-17-4	0.01%(*8)
51	Anthracene oil, anthracene paste, anthracene fraction (*7)	91995-15-2	
52	Anthracene oil, anthracene-low (*7)	90640-82-7	
53	Anthracene oil, anthracene paste (*7)	90640-81-6	
54	Boric acid (*3) (*6)	10043-35-3 / 11113-50-1	0.01%
55	Disodium tetraborate, anhydrous (*3) (*6)	1303-96-4 / 1330-43-4 / 12179-04-3	0.01%
56	Tetraboron disodium heptaoxide, hydrate (*3) (*6)	12267-73-1	0.01%
57	2-Methoxyethanol	109-86-4	0.01%
58	2-Ethoxyethanol	110-80-5	0.01%
59	Cobalt(II) sulphate (*3)	10124-43-3	0.01%
60	Cobalt(II) dinitrate (*3)	10141-05-6	0.01%
61	Cobalt(II) carbonate (*3)	513-79-1	0.01%
62	Cobalt(II) diacetate (*3)	71-48-7	0.01%
63	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.01%
64	2-Ethoxyethyl acetate	111-15-9	0.01%
65	Hydrazine	302-01-2 / 7803-57-8	0.01%
66	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.01%
67	1,2,3-Trichloropropane	96-18-4	0.01%
68	Aluminosilicate Refractory Ceramic Fibres (RCF) (*9)	-	0.01%
69	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*9)	-	0.01%
70	2-Methoxyaniline,o-Anisidine	90-04-0	0.01%
71	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%



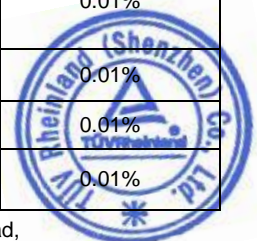
	Substances	CAS No.	Reporting Limit
72	Calcium arsenate (*3)	7778-44-1	0.01%
73	Trilead diarsenate (*3)	3687-31-8	0.01%
74	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
75	Phenolphthalein	77-09-8	0.01%
76	Lead dipicrate (*3)	6477-64-1	0.01%
77	Lead diazide, Lead azide (*3)	13424-46-9	0.01%
78	Lead styphnate (*3)	15245-44-0	0.01%
79	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.01%
80	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
81	Diboron trioxide (*3) (*6)	1303-86-2	0.01%
82	Formamide	75-12-7	0.01%
83	Lead(II) bis(methanesulfonate) (*3)	17570-76-2	0.01%
84	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01%
85	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	
86	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.01%
87	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
88	[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)] (*10)	2580-56-5	0.01%
89	[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)] (*10)	548-62-9	
90	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)] (*10)	561-41-1	
91	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)] (*10)	6786-83-0	
92	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.01%
93	Pentacosfluorotridecanoic acid	72629-94-8	0.01%
94	Tricosfluorododecanoic acid	307-55-1	0.01%
95	Henicosfluoroundecanoic acid	2058-94-8	0.01%
96	Heptacosfluorotetradecanoic acid	376-06-7	0.01%
97	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*12)	123-77-3	0.05%
98	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [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]	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
99	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
100	N,N-dimethylformamide	68-12-2	0.01%



	Substances	CAS No.	Reporting Limit
101	1,2-Diethoxyethane	629-14-1	0.01%
102	Diethyl sulphate	64-67-5	0.01%
103	Methoxyacetic acid (MAA)	625-45-6	0.01%
104	Dimethyl sulphate	77-78-1	0.01%
105	N-methylacetamide	79-16-3	0.01%
106	Furan	110-00-9	0.01%
107	Methyloxirane (Propylene oxide)	75-56-9	0.01%
108	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
109	Dibutyltin dichloride (DBTC) (*3)	683-18-1	0.01%
110	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
111	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
112	4,4'-oxydianiline and its salts	101-80-4	0.01%
113	4-Aminoazobenzene	60-09-3	0.01%
114	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
115	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
116	Biphenyl-4-ylamine	92-67-1	0.01%
117	o-aminoazotoluene	97-56-3	0.01%
118	o-Toluidine	95-53-4	0.01%
119	Acetic acid, lead salt, basic (*3)	51404-69-4	0.01%
120	Trilead bis(carbonate) dihydroxide (*3)	1319-46-6	0.01%
121	Lead oxide sulfate (*3)	12036-76-9	0.01%
122	[Phthalato(2-)]dioxotrilead (*3)	69011-06-9	0.01%
123	Dioxobis(stearato)trilead (*3)	12578-12-0	0.01%
124	Fatty acids, C16-18, lead salts (*3)	91031-62-8	0.01%
125	Lead bis(tetrafluoroborate) (*3)	13814-96-5	0.01%
126	Lead cyanamidate (*3)	20837-86-9	0.01%
127	Lead dinitrate (*3)	10099-74-8	0.01%
128	Lead monoxide (lead oxide) (*3)	1317-36-8	0.01%
129	Orange lead (lead tetroxide) (*3)	1314-41-6	0.01%
130	Lead titanium trioxide (*3)	12060-00-3	0.01%
131	Lead titanium zirconium oxide (*3)	12626-81-2	0.01%
132	Pyrochlore, antimony lead yellow (*3)	8012-00-8	0.01%
133	Pentalead tetraoxide sulphate (*3)	12065-90-6	0.01%
134	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [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] (*3)	68784-75-8	0.01%
135	Silicic acid, lead salt (*3)	11120-22-2	0.01%
136	Sulfurous acid, lead salt, dibasic (*3)	62229-08-7	0.01%
137	Tetraethyllead (*3)	78-00-2	0.01%
138	Tetralead trioxide sulphate (*3)	12202-17-4	0.01%
139	Trilead dioxide phosphonate (*3)	12141-20-7	0.01%
140	Ammonium pentadecafluorooctanoate (APFO) (*13)	3825-26-1	0.01%
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
142	Cadmium (*3)	7440-43-9	0.01%
143	Cadmium oxide (*3)	1306-19-0	0.01%



	Substances	CAS No.	Reporting Limit
144	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [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%
145	Dihexyl phthalate	84-75-3	0.01%
146	Trixylyl phosphate	25155-23-1	0.01%
147	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.01%
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01%
149	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	0.01%
150	Lead di(acetate) (*3)	301-04-2	0.01%
151	Cadmium sulphide (*3)	1306-23-6	0.01%
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01%
153	Cadmium chloride (*3)	10108-64-2	0.01%
154	Sodium perborate,perboric acid, sodium salt (*3) (*6)	-	0.01%
155	Sodium peroxometaborate (*3) (*6)	7632-04-4	0.01%
156	Cadmium fluoride (*3)	7790-79-6	0.01%
157	Cadmium sulphate (*3)	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) (*14)	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) (*15)	-	0.01%
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	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]	-	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-oi-c-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3	0.01%



	Substances	CAS No.	Reporting Limit
		3108-42-7	
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]	-	0.01%
173	<i>p</i> -(1,1-dimethylpropyl)phenol	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	0.01%
175	Chrysene	218-01-9	0.01%
176	Benz[a]anthracene	56-55-3	0.01%
177	Cadmium nitrate(*3)	10325-94-7	0.01%
178	Cadmium hydroxide(*3)	21041-95-2	0.01%
179	Cadmium carbonate(*3)	513-78-0	0.01%
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus™") [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.01%
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]	-	0.01%

Substances identified to be included in the candidate list of SVHCs- defined in Articles 57 of Regulation (EC) No. 1907/2006 according to commission implementing decision (EU) 2018/594 and (EU) 2018/636

	Substances	CAS No.	Reporting Limit
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01%

Remarks:

- (*3) The substances are tested and calculated in terms of its respective elements (e.g. As, Pb, Co, B, Cd, Sn).
- (*4) The substances are tested and calculated in terms of Cr (VI).
- (*5) The substance is tested and calculated in terms of Tributyl tin.
- (*6) The substances are confirmed and tested in terms of Boric acid when Boron is detected in the sample.
- (*7) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (*8) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (*9) The test results are based on microscopic and chemical evaluation.
- (*10) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
- (*11) The content oligomer is determined by Py-GC/MS.
- (*12) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
- (*13) The substance is tested in terms of pentadecafluorooctanoate.
- (*14) The substance is tested and calculated in terms of Dioctyl tin.
- (*15) The substance is tested and calculated in terms of Monoctyl tin and Dioctyl tin.
- (*16) The tested material(s) was screened only for selected SVHCs. Selection of tests refers to the material type and application and the possibility of contamination during production & material specific contamination of the product.
- (*17) The other SVHCs which are not mentioned in test result were either not subject to testing according to remark *16 or not detected.



Products

Test Report No.: 0164129716b 001

Page 14 of 16

2. Concentration of Detected SVHC in Article

Article: M028 of Sample 1

Weight of whole article (g): -

Detected SVHCs	Concentration of detected SVHCs in an article
N,N-dimethylformamide	0.04% (*18)

Article: M039 of Sample 1/2

Weight of whole article (g): -

Detected SVHCs	Concentration of detected SVHCs in an article
N,N-dimethylformamide	0.04% (*18)

Article: M050 of Sample 1/2

Weight of whole article (g): -

Detected SVHCs	Concentration of detected SVHCs in an article
N,N-dimethylformamide	0.04% (*18)

Article: M062 of Sample 2

Weight of whole article (g): -

Detected SVHCs	Concentration of detected SVHCs in an article
N,N-dimethylformamide	0.04% (*18)

Article: Other all tested articles of Sample 1/2

Weight of whole article (g): -

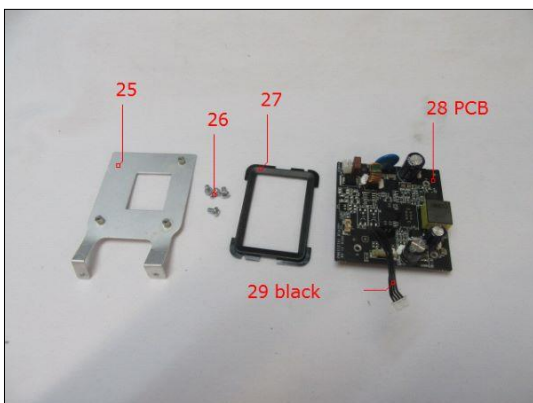
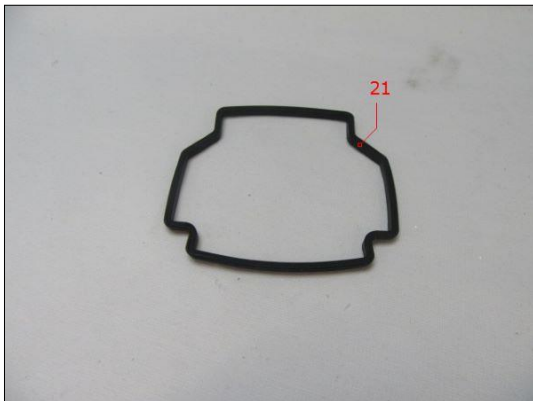
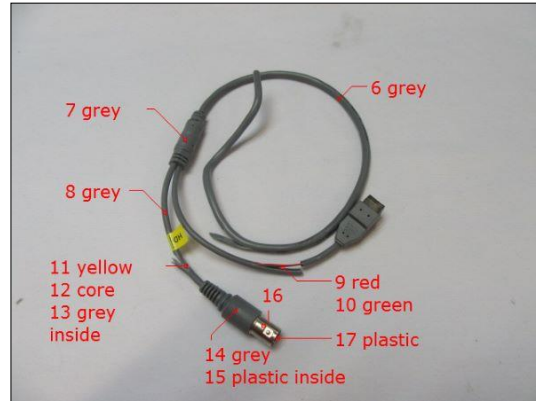
Detected SVHCs	Concentration of detected SVHCs in an article
/	/

"/" = Not Detected SVHCs

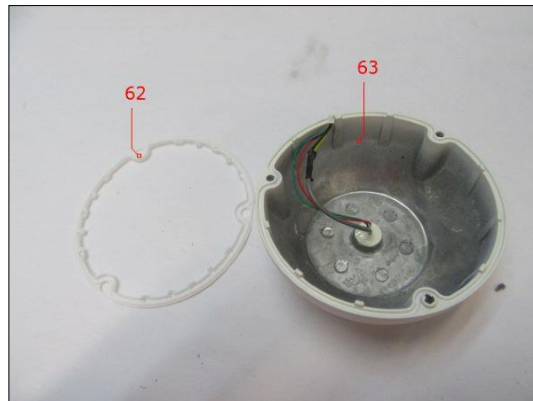
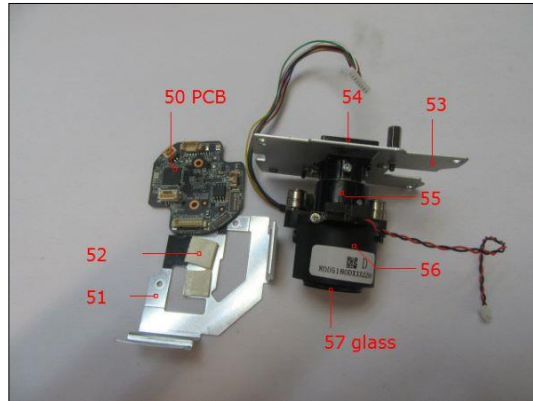
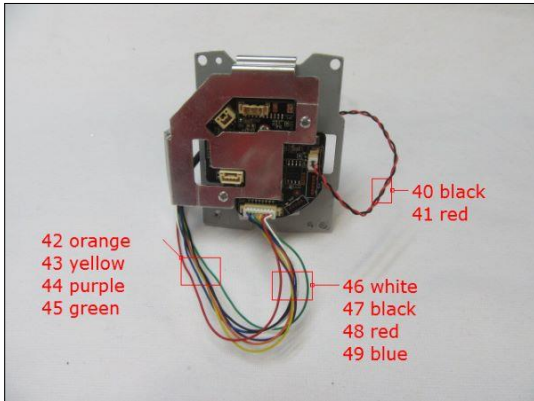
*18. The evaluation result is the possible maximum value based on the mixed sample tested.



Sample Photos



Sample Photos



Sample No. 1



Sample No. 2

---END---

