



# Test Report

Report No. ESTC-190819005

Date: 27 Sep 2019

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**APPLICANT** : **Shenzhen Interthings Technology Co., Ltd.**  
Room 303-305, T3 Building, Silicon Valley Compound,  
Longhua District, Shenzhen, China.

**DATE OF SUBMISSION** : 19 Aug 2019

**TEST PERIOD** : 19 Aug 2019 to 27 Sep 2019

**SAMPLE DESCRIPTION** : IP Camera

Model No. : IPC159

Buyer: /

Trade name : OKAA

Other information : /

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH	PASS	-

GUANGDONG EST  
TECHNOLOGY CO., LTD.

Spark Zhang  
Manager, Chemical Department



### REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 83081888 Ext. 618 E-mail: gdest@gdest.cn

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## 1. Test Part Description:

### Substances in the Candidate List of SVHC

Test Method:	In-House method, Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV.
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Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
001	All metal parts	-	-
002	All plastic parts	-	-
003	PCB & EC	-	-

Maximum Allowable Limit :	0.1% (Each of Listed)
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
001	ND	ND	%	PASS
002	ND	ND	%	PASS
003	ND	ND	%	PASS

### Note / Key:

ND = Not detected

“>” = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

10000 mg/kg = 1 %

Detection Limit (%) : See Appendix.



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## Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
1	Triethyl arsenate*	15606-95-8	427-700-2	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	0.005	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	0.005	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005	Toxic for reproduction
5	Cobalt dichloride*	7646-79-9	231-589-4	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 <sup>(1)</sup> , 10588-01-9 <sup>(2)</sup>	234-190-3	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: $\alpha$ - HBCDD $\beta$ - HBCDD $\gamma$ - HBCDD	3194-55-6 <sup>(3)</sup> , 25637-99-4 <sup>(4)</sup> 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	0.005	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.005	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.01	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.01	Carcinogenic; Mutagenic, PBT, vPvB

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20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	0.005	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres* <sup>a</sup>	Index no. 650-017-00-8		0.01	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres* <sup>b</sup>	Index no. 650-017-00-8		0.01	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.005	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	0.005	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	0.005	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4 <sup>(5)</sup> , 12179-04-3 <sup>(6)</sup> , 1303-96-4 <sup>(7)</sup>	215-540-4	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	0.005	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	0.005	Toxic for reproduction

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45	Chromium trioxide*	1333-82-0	215-607-8	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	0.01	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.005	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	0.005	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	0.005	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.005	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	0.005	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	0.005	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01	Carcinogenic
55	Potassium hydroxyoctaoxidizincatedi-chromate*	11103-86-9	234-329-8	0.01	Carcinogenic
56	Pentazine chromate octahydroxide*	49663-84-5	256-418-0	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.005	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	0.01	Toxic for reproduction

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70	Lead styphnate*	15245-44-0	239-290-0	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.005	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.005	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) <sup>§</sup>	2451-62-9	219-514-3	0.005	Mutagenic
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) <sup>§</sup>	59653-74-6	423-400-0	0.005	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.005	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.005	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.005	Carcinogenic
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.005	Carcinogenic
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.005	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.005	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative

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86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.005	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	0.005	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT) <sup>db</sup>	683-18-1	211-670-0	0.01	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	0.005	Toxic for reproduction
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	201-604-9, 236-086-3, 238-009-9	0.01	Equivalent level of concern
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	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01	Equivalent level of concern
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	-	-	0.005	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.005	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear <sup>+</sup>	84777-06-0	284-032-2	0.005	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.005	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) <sup>+</sup>	776297-69-9	-	0.005	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.005	Very persistent and very bioaccumulative
98	4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.005	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.005	Very persistent and very bioaccumulative

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100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	0.005	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	0.005	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	0.005	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.005	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.005	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.005	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.005	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	0.005	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	0.005	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.01	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01	Toxic for reproduction

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129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	0.005	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.005	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.005	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01	Toxic for reproduction
137	Diisopentylphthalate <sup>+</sup>	605-50-5	210-088-4	0.005	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.01	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) <sup>+</sup>	131-18-0	205-017-9	0.005	Toxic for reproduction
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]	-	-	0.005	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) <sup>‡</sup>	3825-26-1	223-320-4	0.005	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) <sup>‡</sup>	335-67-1	206-397-9	0.005	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	0.005	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.005	Carcinogenic

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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	217-710-3	0.005	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.005	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	0.005	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear <sup>++</sup>	68515-50-4	271-093-5	0.005	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	0.01	Toxic for reproduction
156	Cadmium fluoride*	7790-79-6	232-222-0	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
157	Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.005	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.005	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) <sup>db</sup>	15571-58-1	239-622-4	0.01	Toxic for Reproduction

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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) <sup>db</sup>	-	-	0.01	Toxic for Reproduction
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	271-094-0; 272-013-1	0.01	Toxic for reproduction
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]	-	-	0.01	Very persistent and very bioaccumulative
164	1,3-propanesultone	1120-71-4	214-317-9	0.01	Carcinogenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.005	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.005	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.01	Toxic for reproduction
168	Perfluorononan-1-oic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01	Carcinogenic ; Mutagenic ; Toxic for reproduction; PBT ; vPvB
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01	Toxic for reproduction

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171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.01	Toxic for reproduction; PBT
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01	Equivalent level of concern having probable serious effects to environment
173	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	Equivalent level of concern having probable serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts	335-46-4	206-587-1	0.01	vPvB
175	Dechlorane Plus(TM) and reaction products of 1,3,4-thiadiazolidine-2,5-dithione	-	13560-89-9; 135821-74-8; 135821-03-3	0.01	vPvB
176	benz[a]anthracene	200-280-6	56-55-3	0.01	PBT vPvB
177	cadmium nitrate	233-710-6	10325-94-7	0.01	Carcinogenic; Mutagenic
178	cadmium carbonate	208-168-9	513-76-0	0.01	Carcinogenic; Mutagenic
179	cadmium hydroxide	244-168-5	21041-95-2	0.01	Carcinogenic; Mutagenic
180	chrysene	205-923-4	218-01-9	0.01	PBT vPvB
181	ormaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4 heptylphenol, branched and linear]	-	-	0.01	Environmental endocrine disruptors
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01	PBT vPvB
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01	PBT vPvB
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01	PBT vPvB
185	Lead	7439-92-1	231-100-4	0.01	Toxic for reproduction

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186	Disodium octaborate	12008-41-2	234-541-0	0.01	Toxic for reproduction
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01	PBT vPvB
188	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01	vPvB
189	Terphenyl, hydrogenated (EDA)	107-15-3	203-468-6	0.01	Respiratory sensitising properties
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	209-008-0	0.01	Respiratory sensitising properties
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01	Toxic for reproduction Endocrine disrupting properties
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	0.01	Endocrine disrupting properties (Article 57(f) - environment)
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01	Toxic for reproduction (Article 57c)
194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
195	Fluoranthene	206-44-0; 93951-69-0	205-912-4	0.01	PBT (Article 57d) vPvB (Article 57e)
196	Phenanthrene	85-01-8	201-581-5	0.01	vPvB (Article 57e)
197	Pyrene	129-00-0; 1718-52-1	204-927-3	0.01	PBT (Article 57d) vPvB (Article 57e)
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	0.01	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	Toxic for reproduction (Article 57c)
200	4-tert-butylphenol	98-54-4	202-679-0	0.01	Endocrine disrupting properties (Article 57(f) - environment)
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	Endocrine disrupting properties (Article 57(f) - environment)

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- <sup>(1)</sup> CAS no. 7789-12-0 refers to sodium dichromate dihydrate
- <sup>(2)</sup> CAS no. 10588-01-9 refers to anhydrous sodium dichromate
- <sup>(3)</sup> CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane
- <sup>(4)</sup> CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition
- <sup>(5)</sup> CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous
- <sup>(6)</sup> CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate
- <sup>(7)</sup> CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate

## Remark:

- The list of Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH and is summarized in table of appendix.

The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

\*Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

\*\*Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

§TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.

aRefer to Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.

bRefer to Zirconia Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.

+ [1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.

++ [1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.

♠Result is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.



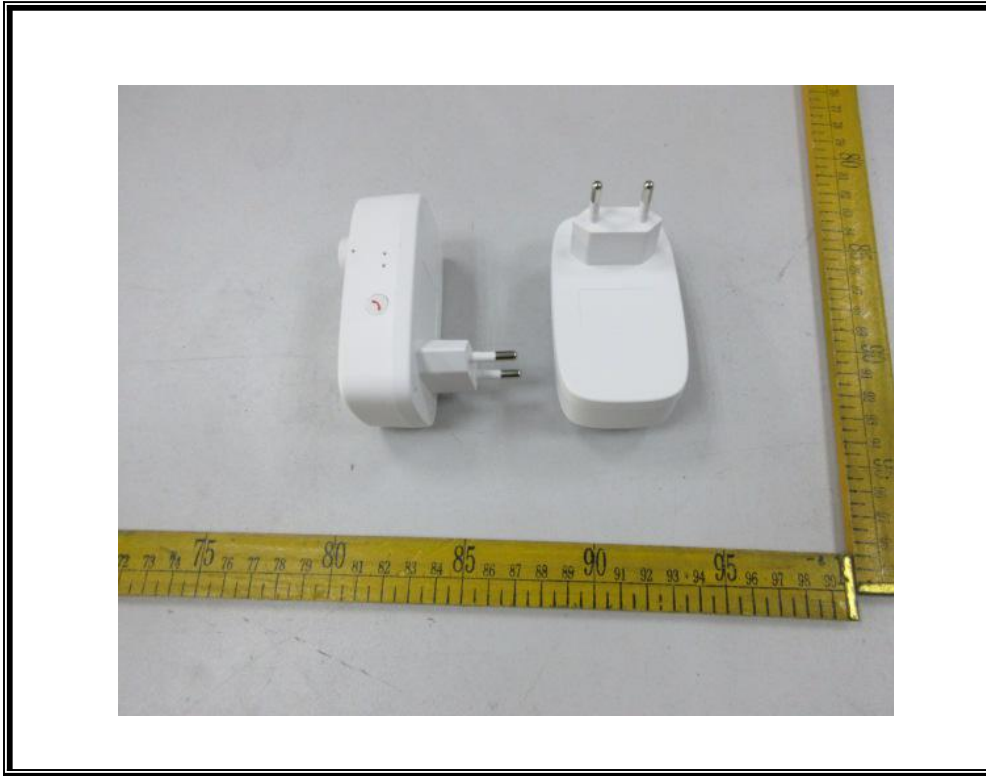
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## 3. Photo of the Submitted Sample



*EST Technology authenticate the photo on original report only*

**\*\*\* End of Report \*\*\***

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