

Test Report

Report No.: 221107165GZU-004

Date: Dec 5, 2022

Applicant: UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

Sample Description:

The following submitted sample(s) said to be:

Item Name : **AC Digital Power Clamp**
Model No. : UT219P
Date of Sample Received : Nov 8, 2022
Testing Period : Nov 8, 2022 to Nov 18, 2022

Tests conducted:

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

Summary:

According to the REACH Regulation (EC) No 1907/2006 as amended, Article 33(1) & The REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) as amended on the obligation to provide information of safe use (see REACH requirement in report for details) and analytical techniques, the concentration of each of 234 Substances of very high concern (SVHCs) is <0.1%(w/w) in the test groups (2), (3) of submitted sample.

According to the REACH Regulation (EC) No 1907/2006 as amended, Article 33(1) & The REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) as amended on the obligation to provide information of safe use (see REACH requirement in report for details) and analytical techniques, please see λ remark in the test groups (1), (4) of submitted sample.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:
Prepared by:



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Reviewed by:



Michael Pang
Asst. Technical Supervisor



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(I) SVHC Testing Results:

By Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

Item	Batch	Chemical Substance	CAS No.	Results % (w/w)	
				(1)	
156	XII	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.341 [^]	
-	-	Other tested SVHCs in Chemical list	-	ND	

Item	Batch	Chemical Substance	CAS No.	Results % (w/w)	
				(4)	
189	XIX	Lead	7439-92-1	1.531 [^]	
-	-	Other lead compounds	-	See other lead compounds list	
-	-	Other tested SVHCs in Chemical list	-	ND	

Item	Batch	Chemical Substance	CAS No.	Results % (w/w)	
				(2)	(3)
-	-	Tested SVHCs in Chemical list	-	ND	ND

SVHC = Substance of very high concern

ND = Not detected

Reporting limit = 0.1%

The test result is based on assumption of worst-case and calculated by minimum sample weight.

[^] = Confirmation testing is recommended as to verify the exact content of SVHC in each individual component.

= For Lead (Pb) was found 1.531 [^] (w/w) in tested group (4), however, as claimed by manufacturer, the lead was all from the lead elements in test group (4) and not from the compound.

Note:

1. Composite test has been performed in equal proportion for the materials per client requested
2. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on materials enough to test

As applicant's requirement, materials were screened in composite testing.

(II) Tested groups:

- (1) Plastic
- (2) Soft Plastic
- (3) PCB & electronic
- (4) Metal & glass



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Other lead compounds

Item	Batch	Chemical Substance	CAS No.	Results % (w/w)
				(4)
4	I	Lead Hydrogen Arsenate Δ	7784-40-9	ND
16	II	Lead Chromate Δ	7758-97-6	ND
17	II	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND
18	II	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
52	VI	Lead dipicrateΔ	6477-64-1	ND#
53	VI	Lead styphnateΔ	15245-44-0	ND#
54	VI	Lead azide; Lead diazideΔ	13424-46-9	ND#
58	VI	Trilead diarsenateΔ	3687-31-8	ND
76	VII	Lead (II) bis(methanesulfonate) Δ	17570-76-2	ND#
98	VIII	Lead monoxide (Lead oxide) Δ	1317-36-8	ND#
99	VIII	Orange lead (Lead tetroxide) Δ	1314-41-6	ND#
100	VIII	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND
101	VIII	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND#
102	VIII	Lead titanium trioxideΔ	12060-00-3	ND#
103	VIII	Lead titanium zirconium oxideΔ	12626-81-2	ND
104	VIII	Silicic acid, lead salt Δ	11120-22-2	ND#
105	VIII	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-dopedΔ	68784-75-8	ND#
112	VIII	Acetic acid, lead salt, basicΔ	51404-69-4	ND#
113	VIII	Lead oxide sulfateΔ	12036-76-9	ND#
114	VIII	[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND#
115	VIII	Dioxobis(stearato)trileadΔ	12578-12-0	ND#
116	VIII	Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND#
117	VIII	Lead cyanamidateΔ	20837-86-9	ND#
118	VIII	Lead dinitrateΔ	10099-74-8	ND#
119	VIII	Pentalead tetraoxide sulphateΔ	12065-90-6	ND#
120	VIII	Pyrochlore, antimony lead yellowΔ	8012-00-8	ND#
121	VIII	Sulfurous acid, lead salt, dibasicΔ	62229-08-7	ND#
122	VIII	TetraethylleadΔ	78-00-2	ND#
123	VIII	Tetralead trioxide sulphateΔ	12202-17-4	ND#
124	VIII	Trilead dioxide phosphonateΔ	12141-20-7	ND#
150	X	Lead di(acetate) Δ	301-04-2	ND#



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(III) Tested SVHC Chemical list

Tested SVHC Chemical candidate list:

Items	batch	Chemical Substance	CAS No.
1	I	Cobalt Dichloride Δ	7646-79-9
2	I	Diarsenic Pentaoxide Δ	1303-28-2
3	I	Diarsenic Trioxide Δ	1327-53-3
4	I	Lead Hydrogen Arsenate Δ	7784-40-9
5	I	Triethyl Arsenate Δ	15606-95-8
6	I	Sodium Dichromate Δ	7789-12-0, 10588-01-9
7	I	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9
8	I	Anthracene	120-12-7
9	I	4,4'-Diaminodiphenylmethane (MDA)	101-77-9
10	I	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)
11	I	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2
12	I	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7
13	I	Dibutyl Phthalate (DBP)	84-74-2
14	I	Benzyl Butyl Phthalate (BBP)	85-68-7
15	I	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8
16	II	Lead Chromate Δ	7758-97-6
17	II	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8
18	II	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2
19	II	Tris (2-Chloroethyl) Phosphate	115-96-8
20	II	2,4-Dinitrotoluene	121-14-2
21	II	Diisobutyl Phthalate (DIBP)	84-69-5
22	II	Coal Tar Pitch, High Temperature	65996-93-2
23	II	Anthracene Oil	90640-80-5
24	II	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4
25	II	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2
26	II	Anthracene Oil, Anthracene-low	90640-82-7
27	II	Anthracene Oil, Anthracene Paste	90640-81-6
28	II	Acrylamide	79-06-1
29	III	Boric Acid Δ	10043-35-3, 11113-50-1
30	III	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
31	III	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1
32	III	Sodium Chromate Δ	7775-11-3
33	III	Potassium Chromate Δ	7789-00-6
34	III	Ammonium Dichromate Δ	7789-09-5
35	III	Potassium Dichromate Δ	7778-50-9
36	III	Trichloroethylene	79-01-6
37	IV	2-Methoxyethanol	109-86-4
38	IV	2-Ethoxyethanol	110-80-5



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39	IV	Cobalt Sulphate Δ	10124-43-3
40	IV	Cobalt Dinitrate Δ	10141-05-6
41	IV	Cobalt Carbonate Δ	513-79-1
42	IV	Cobalt Diacetate Δ	71-48-7
43	IV	Chromium Trioxide Δ	1333-82-0
44	IV	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --
45	V	Strontium ChromateΔ	7789-06-2
46	V	2-ethoxyethyl acetate (2-EEA)	111-15-9
47	V	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4
48	V	Hydrazine	7803-57-8 302-01-2
49	V	1-methyl-2-pyrrolidone	872-50-4
50	V	1,2,3-trichloropropane	96-18-4
51	V	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6
52	VI	Lead dipicrateΔ	6477-64-1
53	VI	Lead styphnateΔ	15245-44-0
54	VI	Lead azide; Lead diazideΔ	13424-46-9
55	VI	Phenolphthalein	77-09-8
56	VI	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
57	VI	N,N-dimethylacetamide (DMAC)	127-19-5
58	VI	Trilead diarsenateΔ	3687-31-8
59	VI	Calcium arsenateΔ	7778-44-1
60	VI	Arsenic acidΔ	7778-39-4
61	VI	Bis(2-methoxyethyl) ether	111-96-6
62	VI	1,2-Dichloroethane	107-06-2
63	VI	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
64	VI	2-Methoxyaniline; o-Anisidine	90-04-0
65	VI	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8
66	VI	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
67	VI	Pentazinc chromate octahydroxideΔ	49663-84-5
68	VI	Potassium hydroxyoctaoxidizincate dichromateΔ	11103-86-9
69	VI	Dichromium tris(chromate)Δ	24613-89-6
70	VI	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)
71	VI	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)
72	VII	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
73	VII	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
74	VII	Diboron trioxideΔ	1303-86-2
75	VII	Formamide	75-12-7
76	VII	Lead(II) bis(methanesulfonate) Δ	17570-76-2



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77	VII	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
78	VII	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
79	VII	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
80	VII	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
81	VII	[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
82	VII	[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
83	VII	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
84	VII	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
85	VIII	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
86	VIII	Pentacosafuorotridecanoic acid	72629-94-8
87	VIII	Tricosafuorododecanoic acid	307-55-1
88	VIII	Henicosafuoroundecanoic acid	2058-94-8
89	VIII	Heptacosafuorotetradecanoic acid	376-06-7
90	VIII	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
91	VIII	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7 13149-00-3 14166-21-3
		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].	



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92	VIII	Hexahydromethylphthalic anhydride [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
93	VIII	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]	--
94	VIII	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
95	VIII	Methoxyacetic acid	625-45-6
96	VIII	N,N-dimethylformamide	68-12-2
97	VIII	Dibutyltin dichloride (DBTC) Δ	683-18-1
98	VIII	Lead monoxide (Lead oxide) Δ	1317-36-8
99	VIII	Orange lead (Lead tetroxide) Δ	1314-41-6
100	VIII	Lead bis(tetrafluoroborate) Δ	13814-96-5
101	VIII	Trilead bis(carbonate)dihydroxide Δ	1319-46-6
102	VIII	Lead titanium trioxideΔ	12060-00-3
103	VIII	Lead titanium zirconium oxideΔ	12626-81-2
104	VIII	Silicic acid, lead salt Δ	11120-22-2
105	VIII	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
106	VIII	1-bromopropane (n-propyl bromide)	106-94-5
107	VIII	Methyloxirane (Propylene oxide)	75-56-9



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108	VIII	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
109	VIII	Diisopentylphthalate (DIPP)	605-50-5
110	VIII	N-pentyl-isopentylphthalate	776297-69-9
111	VIII	1,2-diethoxyethane	629-14-1
112	VIII	Acetic acid, lead salt, basic Δ	51404-69-4
113	VIII	Lead oxide sulfate Δ	12036-76-9
114	VIII	[Phthalato(2-)]dioxotrilead Δ	69011-06-9
115	VIII	Dioxobis(stearato)trilead Δ	12578-12-0
116	VIII	Fatty acids, C16-18, lead salts Δ	91031-62-8
117	VIII	Lead cyanamate Δ	20837-86-9
118	VIII	Lead dinitrate Δ	10099-74-8
119	VIII	Pentalead tetraoxide sulphate Δ	12065-90-6
120	VIII	Pyrochlore, antimony lead yellow Δ	8012-00-8
121	VIII	Sulfurous acid, lead salt, dibasic Δ	62229-08-7
122	VIII	Tetraethyllead Δ	78-00-2
123	VIII	Tetralead trioxide sulphate Δ	12202-17-4
124	VIII	Trilead dioxide phosphonate Δ	12141-20-7
125	VIII	Furan	110-00-9
126	VIII	Diethyl sulphate	64-67-5
127	VIII	Dimethyl sulphate	77-78-1
128	VIII	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
129	VIII	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
130	VIII	4,4'-methylenedi-o-toluidine	838-88-0
131	VIII	4,4'-oxydianiline and its salts	101-80-4
132	VIII	4-aminoazobenzene	60-09-3
133	VIII	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
134	VIII	6-methoxy-m-toluidine (p-cresidine)	120-71-8
135	VIII	Biphenyl-4-ylamine	92-67-1
136	VIII	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
137	VIII	o-toluidine	95-53-4
138	VIII	N-methylacetamide	79-16-3
139	IX	Cadmium Δ	7440-43-9
140	IX	Cadmium oxide Δ	1306-19-0
141	IX	Dipentyl phthalate (DPP)	131-18-0



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142	IX	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]	--
143	IX	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
144	IX	Pentadecafluorooctanoic acid (PFOA)	335-67-1
145	X	Cadmium sulphide Δ	1306-23-6
146	X	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
147	X	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
148	X	Dihexyl phthalate (DnHP)	84-75-3
149	X	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
150	X	Lead di(acetate) Δ	301-04-2
151	X	Trixylyl phosphate	25155-23-1
152	XI	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
153	XI	Cadmium chloride Δ	10108-64-2
154	XI	Sodium perborate; perboric acid, sodium salt Δ	--
155	XI	Sodium peroxometaborate Δ	7632-04-4
156	XII	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
157	XII	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
158	XII	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
159	XII	Cadmium fluoride Δ	7790-79-6
160	XII	Cadmium sulphate Δ	10124-36-4; 31119-53-6
161	XII	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)	15571-58-1; 27107-89-7



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162	XIII	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
163	XIII	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]	117933-89-8
164	XIV	1,3-propanesultone	1120-71-4
165	XIV	Perfluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
166	XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
167	XIV	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
168	XIV	Nitrobenzene	98-95-3
169	XV	Benzo[a]pyrene	50-32-8
170	XVI	4, 4'-isopropylidenediphenol (bisphenol A)	80-05-7
171	XVI	4-Heptylphenol, branched and linear	---
172	XVI	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3
173	XVI	4-tert-pentylphenol (PTAP)	80-46-6
174	XVII	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	355-46-4
175	XVIII	Chrysene	218-01-9
176	XVIII	Benz[a]anthracene	56-55-3
177	XVIII	Cadmium nitrate Δ	10325-94-7
178	XVIII	Cadmium hydroxide Δ	21041-95-2
179	XVIII	Cadmium carbonate Δ	513-78-0
180	XVIII	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3-
181	XVIII	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]	-
182	XIX	benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7
183	XIX	Dicyclohexyl phthalate(DCHP)	84-61-7
184	XIX	Benzo[ghi]perylene	191-24-2
185	XIX	Decamethylcyclopentasiloxane (D5)	541-02-6
186	XIX	Disodium octaborate Δ	12008-41-2
187	XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6
188	XIX	Ethylenediamine	107-15-3
189	XIX	Lead	7439-92-1
190	XIX	Octamethylcyclotetrasiloxane (D4)	556-67-2
191	XIX	Terphenyl hydrogenated	61788-32-7



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192	XX	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
193	XX	Benzo[k]fluoranthene	207-08-9
194	XX	Fluoranthene	206-44-0
195	XX	Phenanthrene	85-01-8
196	XX	Pyrene	129-00-0
197	XX	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one(3-benzylidene camphor; 3-BC)	15087-24-8
198	XXI	4-tert-butylphenol (PTBP)	98-54-4
199	XXI	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-
200	XXI	2-methoxyethyl acetate	110-49-6
201	XXI	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-
202	XXII	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
203	XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
204	XXII	Diisohexyl phthalate	71850-09-4
205	XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	--
206	XXIII	1-vinylimidazole	1072-63-5
207	XXIII	2-methylimidazole	693-98-1
208	XXIII	Butyl 4-hydroxybenzoate	94-26-8
209	XXIII	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
210	XXIV	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8
211	XXIV	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	--
212	XXV	1,4-dioxane	123-91-1
213	XXV	2,2-bis(bromomethyl)propane1,3-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
214	XXV	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--
215	XXV	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7
216	XXV	Glutaral	111-30-8
217	XXV	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]	85535-85-9
218	XXV	Orthoboric acid, sodium salt	13840-56-7



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219	XXV	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)	--
220	XXVI	(±)-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)	--
221	XXVI	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
222	XXVI	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
223	XXVI	Tris(2-methoxyethoxy)vinylsilane	1067-53-4
224	XXVII	N-(hydroxymethyl)acrylamide	924-42-5

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

Tested proposed SVHC in the draft Commission Implementing Decision of June 2021:

No.	Chemical Substance	CAS No.
1	Resorcinol	108-46-3

Tested proposed SVHC in the draft Commission Implementing Decision of September 2022:

No.	Chemical Substance	CAS No.
1	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1
2	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7
3	4,4'-sulphonyldiphenol	80-09-1
4	Barium diboron tetraoxide Δ	13701-59-2
5	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--
6	Isobutyl 4-hydroxybenzoate	4247-02-3
7	Melamine	108-78-1
8	Perfluoroheptanoic acid and its salts	--
9	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	--



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REACH SVHC requirement:

Following substances may be identified as substance of very high concern (SVHC):

Substances classified as:

- (a) Carcinogenicity category 1A or 1B;
- (b) Germ cell mutagenicity category 1A or 1B;
- (c) Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- (d) Persistent, bioaccumulative and toxic (PBT)
- (e) Very persistent and very bioaccumulative (vPvB)
- (f) 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 disrupters

REACH and UK SI 2021 No. 904 Requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended & The REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) 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 submit a notification, whose measures for the implementation is subject to regulations made by the Secretary of State of UK.. 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:

- (a) Identity and contact details of the producer or importer;
- (b) Registration number(s), if available;
- (c) Identity of the substance;
- (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 REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 as amended 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.

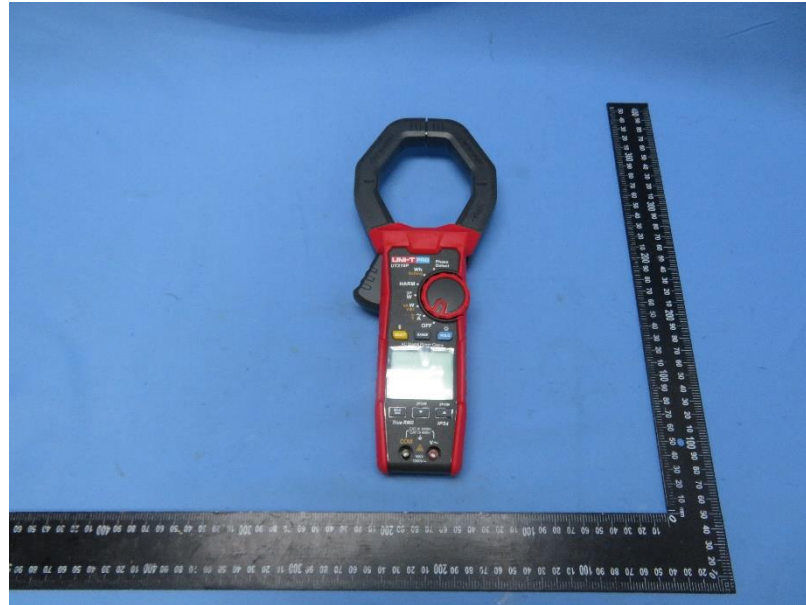
As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended & The REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight 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).

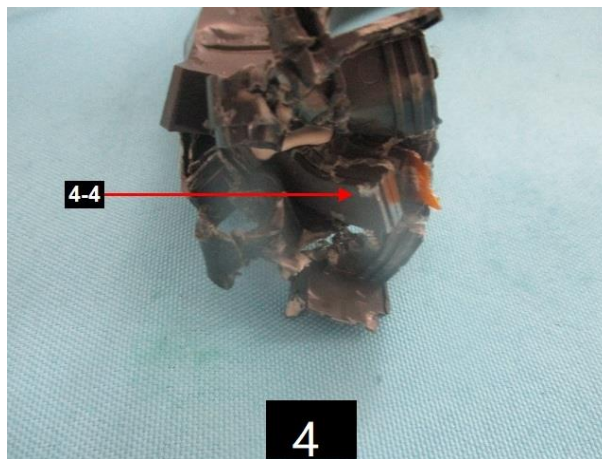
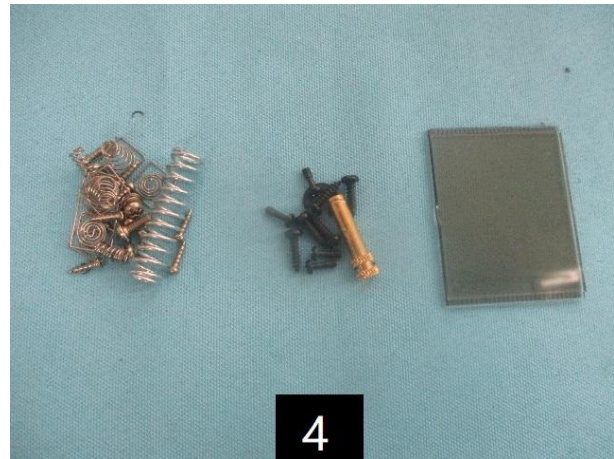
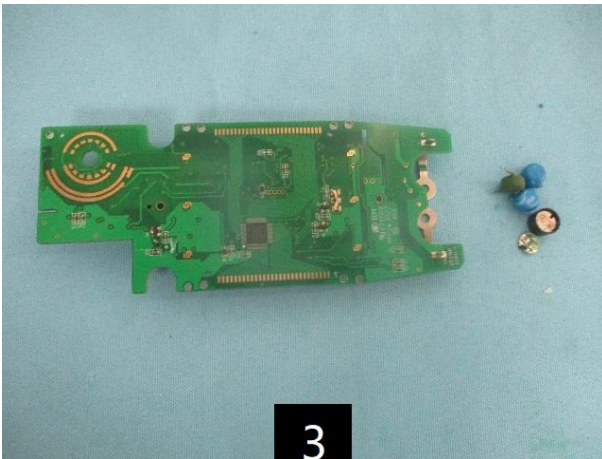
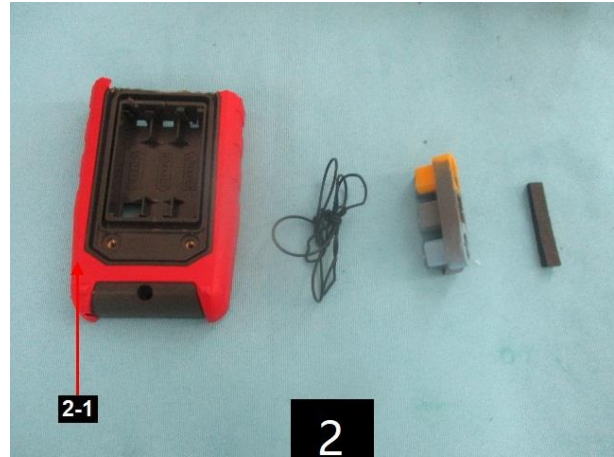
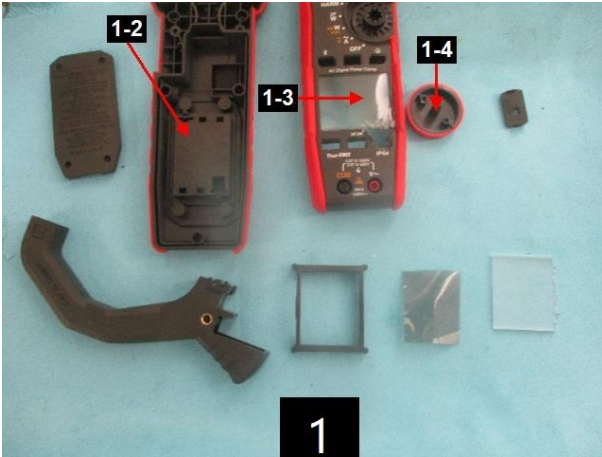
As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended & The REACH etc. (Amendment) Regulations 2021 (SI 2021 No. 904) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight 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.



Sample photo





End of report

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