

# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 1 of 26

**Applicant** : EcoFlow Inc.  
**Address** : Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District  
Shenzhen, Guangdong 518000 China  
**Sample Name** : Rechargeable Li-ion Battery Pack  
**Style/Item No.** : EFKT210-EB  
**Received Date** : Jan. 28, 2023  
**Test Period** : Jan. 28, 2023 ~ Feb. 10, 2023  
**Test Requested** : As specified by the client, according to REACH Regulation (EC) No.1907/2006, to determine the content of the Two hundred and thirty-three Substances of Very High Concern (SVHC) in the submitted sample.  
**Test Results** : Please refer to next page (s).

## Conclusion:

According to REACH Regulation (EC) No.1907/2006, the test results for the concentration of each of 233 SVHC which are in the current candidate list updated on Jan. 17, 2023 are **LESS THAN** 0.1% (wt.%) in the submitted samples.

Signed for and on behalf of  
EMTEK(Dongguan) Co., Ltd.

Prepared by:

*Polly*

Huang Fenglan, Polly  
Report Engineer

Reviewed by:

*Cindy*

Zeng Xingji, Cindy  
Supervisor

Approved by:

*Lisa*  
Li Wei, Lisa  
Authorized signatory  
Feb. 10, 2023

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 2 of 26

## Test Results:

Test Method: By using microwave digestion or solvent extraction methods, and the analysis was performed by ICP-OES, GC-MS, LC-MS, IC and UV.

Test Item	Test Result (%)	MDL (%)
	2+7+8+10+11+14+26+30+37+65+70+87+88+90+91+103	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	104+105+106+107+108+109+118+141+143+144+146+147+150+151+152+156	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	22+33+41+115+157+158+159+160+161+164+166+167+168+169+174+175+178+179+180+181+182+183	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	1+5+12+15+16+28+64+67+69+72+77	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	17+19+20+24+25+29+31+32+35+36+45+59+66	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	79+86+95+96+98+99+101+142+148+154+163+172	
233 SVHC	ND	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 3 of 26

## Test Results:

Test Item	Test Result (%)	MDL (%)
	68+71+73+78+80+81+83+84+89+92+97	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	100+102+110+121+126+133+137+145+149+153+155+162	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	165+170+171+176+184+185+186+187+188+189+190+191+192+193+194	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	3+4+6+18+21+23+27+34+38+39+40+42+43+44+46	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	47+48+49+50+51+52+53+54+55+56+57+58+60+61+62	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	63+74+75+76+82+85+93+94+111+112+113+114+116+117+119+120	
233 SVHC	ND	0.010

Test Item	Test Result (%)	MDL (%)
	9+13+122+123+124+125+127+128+129+130+131+132+134+135+136+138+139+140+173+177	
233 SVHC	ND	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 4 of 26

## Tested Materials:

Item No.	Description
1	Black hard plastic
2	Black soft plastic
3	Label
4	Label
5	Black hard plastic
6	Grey coating
7	White soft plastic
8	White soft plastic
9	Black foam with glue
10	Black soft plastic
11	Black soft plastic
12	Black translucent hard plastic
13	Black foam with glue
14	White soft plastic
15	Black hard plastic with silver coating
16	Dark grey hard plastic
17	Dark silver metal
18	Green PCB
19	Silver metal with black printing
20	Pin-silver metal
21	Black solid
22	Translucent plastic film
23	Brown paper
24	Dark silver metal
25	Silver metal
26	Black soft plastic

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 5 of 26

Item No.	Description
27	SMD capacitor
28	Beige hard plastic
29	Silver metal
30	Black soft plastic with grey printing
31	Shell-silver metal
32	Pin-silver metal
33	Translucent plastic film
34	Brown paper
35	Dark silver metal
36	Silver metal
37	Black soft plastic
38	Grey PCB
39	Black solid
40	Black glue
41	Brown translucent plastic film
42	Red enameled wire
43	Grey solid
44	SMD capacitor
45	Silver metal
46	SMD IC
47	White glue
48	SMD IC
49	SMD resister
50	SMD capacitor
51	SMD resister
52	SMD capacitor
53	SMD diode

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 6 of 26

Item No.	Description
54	SMD triode
55	SMD diode
56	SMD inductor
57	SMD capacitor
58	Black solid
59	Pin-silver metal
60	White solid
61	SMD IC
62	SMD IC
63	SMD IC
64	Shell-black hard plastic
65	Black soft plastic
66	Silver metal
67	Dark grey hard plastic
68	Contact plate-silver metal with copper plating
69	Shell-black hard plastic
70	Black soft plastic
71	Silver metal
72	Dark grey hard plastic
73	Contact plate-silver metal with copper plating
74	Black solid
75	SMD IC
76	Label
77	Button-black hard plastic
78	Fixed plate-silver metal
79	Fixed mount-black hard plastic
80	Contact plate-silver metal

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 7 of 26

Item No.	Description
81	Pin-silver metal
82	SMD led
83	Solder-silver metal
84	Silver metal
85	Grey composite material
86	Yellow hard plastic
87	Black soft plastic with grey printing
88	Black soft plastic with grey printing
89	Solder-silver metal
90	Black soft plastic with grey printing
91	Red soft plastic with black printing
92	Silver metal
93	Green PCB
94	SMD diode
95	Black hard plastic
96	Beige hard plastic
97	Silver metal
98	Yellow hard plastic
99	Yellow hard plastic
100	Solder-silver metal
101	White hard plastic
102	Silver metal
103	Black soft plastic with grey printing
104	Pink soft plastic
105	Black soft plastic
106	Green soft plastic
107	Blue soft plastic

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 8 of 26

Item No.	Description
108	White soft plastic with black printing
109	Yellow soft plastic
110	Silver metal
111	Green PCB
112	White ceramic
113	SMD resister
114	SMD diode
115	Brown translucent plastic film
116	Dark grey solid
117	Black solid
118	Translucent soft plastic
119	Yellow enameled wire
120	Black solid
121	Pin-silver metal
122	SMD diode
123	SMD diode
124	SMD diode
125	Black solid
126	Pin-silver metal
127	Dark grey solid
128	SMD IC
129	Black solid
130	Black solid
131	SMD inductor
132	SMD IC
133	Silver metal
134	SMD IC

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 9 of 26

Item No.	Description
135	SMD IC
136	SMD resister
137	Solder-silver metal
138	White solid
139	SMD IC
140	Black solid
141	Black soft plastic with grey printing
142	Yellow hard plastic
143	Black soft plastic with grey printing
144	Black soft plastic with grey printing
145	Solder-silver metal
146	Black soft plastic with grey printing
147	Red soft plastic with black printing
148	Black hard plastic
149	Solder-silver metal
150	Black soft plastic
151	Black soft plastic with grey printing
152	Red soft plastic
153	Silver metal
154	White hard plastic
155	Silver metal
156	Black soft plastic with grey printing
157	Blue soft plastic
158	Black soft plastic
159	Pink soft plastic
160	Green soft plastic
161	White soft plastic with black printing

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 10 of 26

Item No.	Description
162	Silver metal
163	Black hard plastic
164	Black plastic film with glue
165	Silver metal
166	Brown translucent plastic film
167	Black soft plastic
168	Black soft plastic
169	Black soft plastic
170	Copper metal
171	Copper metal
172	Black hard plastic
173	White glue
174	Red soft plastic
175	Black soft plastic
176	Silver metal
177	White thread
178	Blue soft plastic
179	Yellow soft plastic
180	Purple soft plastic
181	Grey soft plastic
182	White soft plastic
183	Green soft plastic
184	Silver metal with black coating
185	Silver metal
186	Silver metal
187	Silver metal
188	Silver metal

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 11 of 26

Item No.	Description
189	Silver metal
190	Silver metal
191	Silver metal
192	Silver metal
193	Silver metal
194	Silver metal

Remark: 1. As specified by the client, the samples were subjected to mixed testing, and the test results do not represent the content of any single material in the sample.

2. The tested parts were designated by client.

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 12 of 26

## Two hundred and thirty-three Substances of Very High Concern (SVHC):

Batch	No.	Substance Name	CAS No.	MDL (%)
I	1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.010
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene)	81-15-2	0.010
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) #	85535-84-8	0.010
I	4	Anthracene	120-12-7	0.010
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.010
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.010
I	7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.010
I	8	Cobalt dichloride *	7646-79-9	0.010
I	9	Diarsenic pentaoxide *	1303-28-2	0.010
I	10	Diarsenic trioxide *	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.010
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 134237-50-6 134237-51-7 134237-52-8	0.010
I	13	Lead hydrogen arsenate *	7784-40-9	0.010
I	14	Sodium dichromate *	10588-01-9 7789-12-0	0.010
I	15	Triethyl arsenate *	15606-95-8	0.010
II	16	Acrylamide	79-06-1	0.010
II	17	2,4-dinitrotoluene	121-14-2	0.010
II	18	Anthracene oil #	90640-80-5	0.010
II	19	Anthracene oil, anthracene paste #	90640-81-6	0.010
II	20	Anthracene oil, anthracene paste, anthracene fraction #	91995-15-2	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 13 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
II	21	Anthracene oil, anthracene paste, distrn. lights #	91995-17-4	0.010
II	22	Anthracene oil, anthracene-low #	90640-82-7	0.010
II	23	Diisobutyl phthalate (DIBP)	84-69-5	0.010
II	24	Lead chromate *	7758-97-6	0.010
II	25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high-temp. #	65996-93-2	0.010
II	28	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.010
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid *	11113-50-1 10043-35-3	0.010
III	31	Disodium tetraborate, anhydrous *	12179-04-3 1303-96-4 1330-43-4	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate *	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.010
IV	37	2-ethoxyethanol	110-80-5	0.010
IV	38	2-methoxyethanol	109-86-4	0.010
IV	39	Acids generated from chromium trioxide and their oligomers*	7738-94-5 13530-68-2	0.010
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 14 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.010
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.010
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.010
V	48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.010
V	49	2-ethoxyethyl acetate	111-15-9	0.010
V	50	Hydrazine	302-01-2 7803-57-8	0.010
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-dichloroethane	107-06-2	0.010
VI	53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.010
VI	54	2-Methoxyaniline, o-Anisidine	90-04-0	0.010
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.010
VI	56	Aluminosilicate Refractory Ceramic Fibres**	-	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.010
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.010
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate)*	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.010
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 15 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	0.010
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.010
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate *	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres **	-	0.010
VII	72	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.010
VII	73	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.010
VII	74	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	0.010
VII	75	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	0.010
VII	76	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	0.010
VII	77	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.010
VII	78	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	548-62-9	0.010
VII	79	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	2580-56-5	0.010
VII	80	Diboron trioxide*	1303-86-2	0.010
VII	81	Formamide	75-12-7	0.010
VII	82	Lead(II) bis(methanesulfonate) *	17570-76-2	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 16 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
VII	83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.010
VII	84	$\alpha,\alpha$ -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	0.010
VIII	85	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	0.010
VIII	86	1,2-diethoxyethane	629-14-1	0.010
VIII	87	1-bromopropane (n-propyl bromide)	106-94-5	0.010
VIII	88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.010
VIII	89	4,4'-methylenedi-o-toluidine	838-88-0	0.010
VIII	90	4,4'-oxydianiline and its salts	101-80-4	0.010
VIII	91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated #	-	0.010
VIII	92	4-aminoazobenzene	60-09-3	0.010
VIII	93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.010
VIII	94	4-Nonylphenol, branched and linear #	-	0.010
VIII	95	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.010
VIII	96	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010
VIII	98	Biphenyl-4-ylamine	92-67-1	0.010
VIII	99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.010
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride cis-cyclohexane-1,2-dicarboxylic anhydride trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.010
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	0.010
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 17 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
VIII	103	Diethyl sulphate	64-67-5	0.010
VIII	104	Diisopentyl phthalate (DIPP)	605-50-5	0.010
VIII	105	Dimethyl sulphate	77-78-1	0.010
VIII	106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.010
VIII	107	Dioxobis(stearato)trilead *	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts *	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.010
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.010
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.010
VIII	112	Hexahydromethylphthalic anhydride Hexahydro-3-methylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride	25550-51-0 57110-29-9 19438-60-9 48122-14-1	0.010
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide (lead oxide) *	1317-36-8	0.010
VIII	117	Lead oxide sulfate *	12036-76-9	0.010
VIII	118	Lead titanium trioxide*	12060-00-3	0.010
VIII	119	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	120	Methoxyacetic acid	625-45-6	0.010
VIII	121	Methyloxirane (Propylene oxide).	75-56-9	0.010
VIII	122	N,N-dimethylformamide (DMF)	68-12-2	0.010
VIII	123	N-methylacetamide	79-16-3	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 18 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
VIII	124	N-pentyl-isopentylphthalate (iPnP)	776297-69-9	0.010
VIII	125	o-aminoazotoluene	97-56-3	0.010
VIII	126	o-toluidine	95-53-4	0.010
VIII	127	Orange lead (lead tetroxide)*	1314-41-6	0.010
VIII	128	Pentacosfluorotridecanoic acid	72629-94-8	0.010
VIII	129	Pentalead tetraoxide sulphate *	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow *	8012-00-8	0.010
VIII	131	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic *	62229-08-7	0.010
VIII	134	Tetraethyllead *	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate *	12202-17-4	0.010
VIII	136	Tricosfluorododecanoic acid	307-55-1	0.010
VIII	137	Trilead bis(carbonate) dihydroxide*	1319-46-6	0.010
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated #	-	0.010
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.010
IX	141	Cadmium*	7440-43-9	0.010
IX	142	Cadmium oxide*	1306-19-0	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.010
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.010
X	145	Cadmium sulphide*	1306-23-6	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 19 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
X	146	Dihexyl phthalate (DNHP)	84-75-3	0.010
X	147	Disodium,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.010
X	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	0.010
X	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.010
X	150	Lead di(acetate) *	301-04-2	0.010
X	151	Trixylyl phosphate	25155-23-1	0.010
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.010
XI	153	Cadmium chloride *	10108-64-2	0.010
XI	154	Sodium perborate, perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate *	7632-04-4	0.010
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.010
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.010
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.010
XII	159	Cadmium fluoride *	7790-79-6	0.010
XII	160	Cadmium sulphate *	10124-36-4, 31119-53-6	0.010
XII	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)	-	0.010
XIII	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	-	0.010
XIII	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	-	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 20 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
XIV	164	1,3-propanesultone	1120-71-4	0.010
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.010
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.010
XIV	167	Nitrobenzene	98-95-3	0.010
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.010
XV	169	Benzo[a]pyrene	50-32-8	0.010
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.010
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.010
XVI	172	4-Heptylphenol, branched and linear (4-HPbl)	-	0.010
XVI	173	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	0.010
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.010
XVIII	175	Benz[a]anthracene	56-55-3	0.010
XVIII	176	Cadmium carbonate *	513-78-0	0.010
XVIII	177	Cadmium hydroxide *	21041-95-2	0.010
XVIII	178	Cadmium nitrate *	10325-94-7	0.010
XVIII	179	Chrysene	218-01-9	0.010
XVIII	180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.010
XVIII	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]	-	0.010
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 21 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	0.010
XIX	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.010
XIX	185	Lead *	7439-92-1	0.010
XIX	186	Disodium octaborate *	12008-41-2	0.010
XIX	187	Benzo[ghi]perylene	191-24-2	0.010
XIX	188	Terphenyl, hydrogenated	61788-32-7	0.010
XIX	189	Ethylenediamine (EDA)	107-15-3	0.010
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.010
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	0.010
XX	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.010
XX	193	Benzo[k]fluoranthene	207-08-9	0.010
XX	194	Fluoranthene	206-44-0	0.010
XX	195	Phenanthrene	85-01-8	0.010
XX	196	Pyrene	129-00-0	0.010
XX	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	0.010
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) (HFPO-DA)	-	0.010
XXI	199	2-methoxyethyl acetate	110-49-6	0.010
XXI	200	4-tert-butylphenol	98-54-4	0.010
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.010
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.010
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 22 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
XXII	204	Diisohexyl phthalate	71850-09-4	0.010
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.010
XXIII	206	1-vinylimidazole	1072-63-5	0.010
XXIII	207	2-methylimidazole	693-98-1	0.010
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.010
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.010
XXIV	210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.010
XXIV	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	-	0.010
XXV	212	1,4-dioxane	123-91-1	0.010
XXV	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	0.010
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.010
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.010
XXV	216	Glutaral	111-30-8	0.010
XXV	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]	-	0.010
XXV	218	Orthoboric acid, sodium salt *	13840-56-7	0.010
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.010
XXVI	220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.010
XXVI	221	Tris(2-methoxyethoxy) vinylsilane	1067-53-4	0.010

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 23 of 26

Batch	No.	Substance Name	CAS No.	MDL (%)
XXVI	222	(±)-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)	-	0.010
XXVI	223	S-(tricyclo(5.2.1.0 <sup>2,6</sup> )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	0.010
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.010
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.010
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.010
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.010
XXVIII	228	Barium diboron tetraoxide *	13701-59-2	0.010
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.010
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.010
XXVIII	231	Melamine	108-78-1	0.010
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.010
XXVIII	233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.010

**Remark:**

1. ND = Not Detected (less than MDL) MDL = Method Detection Limit 0.1%=1000mg/kg=1000ppm
2. \* = Result is based on the representative heavy metal concentration. Due to the limit of the analytical technology available, when the calculated result of target substance by chemometrics is higher than the request limit, the client is strongly advised to review the chemical formulation to ascertain.
3. # = The SVHC which is defined as UVCB substance (substances of **U**nknown or **V**ariable composition, **C**omplex reaction products or **B**iological materials) under REACH regulation cannot be sufficiently identified by its chemical composition as the number of constituents is relatively large and/or the composition is, to a significant part, unknown and/or the variability of composition is relatively large or poorly predictable. So the test result is calculated as per the selected identifiers of the SVHC basing on the worst-case scenario.
4. According to the REACH regulation (EC) No. 1907/2006, the request limit is 0.1% for SVHC in the article.
5. If a SVHC is found over the request limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by further request of quantitative analysis.

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 24 of 26

## Sample Photo



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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 25 of 26

## Notes:

1. The limit of 0.1% (w / w) applies to an article. The results were calculated assuming that the submitted sample was an article. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, the definitions of article, substance or mixture are:
  - i. Article - An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.
  - ii. Substance - A chemical element and its compound in the natural state or obtained by any manufacturing process.
  - iii. Mixture (Previously known as "Preparation") - A mixture or solution composed of two or more substances.
2. In accordance with Article 7 of Regulation (EC) No. 1907 / 2006 (REACH regulation) – Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meeting the criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w / w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.
3. In accordance with Article 33 of Regulation (EC) No. 1907 / 2006 (REACH regulation) – Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in concentration above 0.1% weight by weight (w / w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.

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

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# Test Report

No.: EDG2211250039C00201R

Date: Feb. 10, 2023

Page 26 of 26

## 声明 Statement

1. 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。  
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.
2. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担相关责任。  
The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by the judgment method, and EMTEK shall not bear related responsibilities.
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Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.





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All samples and goods are accepted by the EMTEK (Dongguan) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告（以下简称[报告]），本公司会严格为客户保密。未经本公司的书面同意，报告的整体或部分不得复制，也不得用于广告或授权的其他用途。然而，客户可以将本公司印制的报告或认可的副本，向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求，否则未经客户同意，本公司不得将报告内容向任何第三方讨论或披露。  
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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋庸，也并无义务到法院对有关报告作证。  
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。  
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。  
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。  
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8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。  
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

