



Enjoy Life

Test Report

No. A190606001002

Date: Aug 02, 2019

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SHENZHEN INTERTHINGS TECHNOLOGY CO.,LTD
305, T3 BUILDING, SILICON VALLEY COMPOUND, LONGHUA DISTRICT, SHENZHEN, CHINA.

Sample Description:	IP CAMERA	Buyer:	/
Color:	/	Factory:	YINGHE DIGITAL TECHNOLOGY (GUANGDONG) CO.,LTD.
Order No.:	/	Exported to:	/
Style No.:	IPC128/ALT-285/SM01-OCB20	Product End Use:	/
Content:	/	Trademark:	ALTEC LANSING, LANBERG
Age Group:	/	Report Date:	Aug 02, 2019
Sample Receive Date:	Jun 06, 2019	Contact Information:	/
Test Period:	From Jun 06, 2019 to Aug 01, 2019		

Test Requested: 197 Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

Test Result: Refer to following page(s)

Conclusion:

- 1 Base on the said test, the concentration of Lead is > 0.1%(w/w) in the submitted sample(s).
- 2 Base on the said test, the concentration of other SVHC is < 0.1%(w/w) in the submitted sample(s).

Signed for and on behalf of
Anrray Test Co., Ltd.

Tony Tang Manager, Chemical Lab

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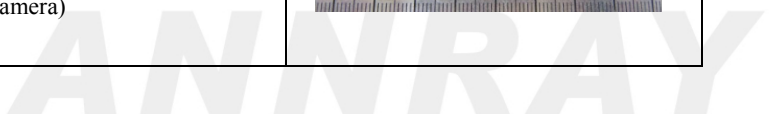
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TESTED SUBJECT DESCRIPTION

Sample Number	Tested Material Description	Photo
001	Black coated white plastic(Case,camera)	
002	Silvery metal(Gasket,camera)	
003	Black plastic(Cover,camera)	
004	Grey plastic(Adhesive,camera)	
005	Silver coated white plastic(Cap,camera)	
006	Black coated white plastic(Holder,screen,camera)	
007	Black printed transparent glass(Screen,camera)	
008	Grey soft plastic(Washer,screen,camera)	
009	Transparent plastic(Cap,LED,camera)	
010	Silvery metal(Screw,PCB,camera)	





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Sample Number	Tested Material Description	Photo	
011	Beige glue(Glue,mic,camera)		
012	Black soft plastic(Sleeve,mic,camera)		
013	Black fabric with adhesive(Net fabric,mic,camera)		
014	Silvery metal(Case,mic,camera)		
015	White plastic(Sleeve,mic,camera)		
016	Silvery metal(Tube,mic,camera)		
017	Silvery metal(Gasket,mic,camera)		
018	Silvery metal(Ring,mic,camera)		
019	Black body(Audion,PCB,mic)		
020	White body(Capacitor,PCB,mic)		
021	Green printed brown plastic with coppery metal(PCB,mic)		
022	White soft plastic(Wire jacket,PCB,mic)		
023	Red soft plastic(Wire jacket,PCB,mic)		
024	Silvery metal(Wire,PCB,mic)		
025	Silvery metal(Fastener,mic)		
026	White plastic(Socket,mic)		

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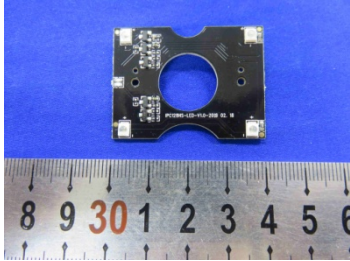
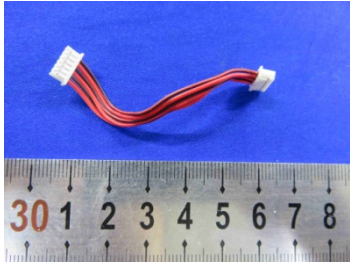
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Sample Number	Tested Material Description	Photo	
027	Transparent plastic(LED(big),PCB)		
028	Black body(Audion,PCB)		
029	Brown body(Capacitor,PCB)		
030	Black body(Capacitor,PCB)		
031	Grey body(Capacitor,PCB)		
032	Transparent plastic(LED(small),PCB)		
033	White printed black body(Resistor,PCB)		
034	Black printed beige plastic with coppery metal(PCB)		
035	White plastic(Socket,PCB)		
036	Silvery metal(Fastener,PCB)		
037	Black printed red soft plastic(Wire jacket,PCB)		
038	Black coated red soft plastic(Wire jacket,PCB)		
039	Silvery metal(Wire,PCB)		

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Sample Number	Tested Material Description	Photo
040	Black soft plastic(Sleeve,PCB)	
041	Grey soft plastic(Wire jacket,PCB)	
042	Silvery metal(Wire,PCB)	
043	Brass metal(Tube,PCB)	
044	Silvery metal(Solder,PCB)	
045	Transparent soft plastic(Wire jacket,PCB)	
046	Black coated silvery metal(Screw,PCB)	
047	White plastic(Holder,battery,camera)	
048	Silvery metal(Contact plate,lens)	
049	Coppery metal(Coil,lens)	
050	Green printed brown plastic with coppery metal(PCB,lens)	
051	Red soft plastic(Wire jacket,lens)	
052	Black soft plastic(Wire jacket,lens)	
053	Silvery metal(Wire,lens)	

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Sample Number	Tested Material Description	Photo	
054	Black plastic(Frame,lens)		
055	Transparent glass(Lens,camera)		
056	Black magnet(Magnet,lens)		
057	Black plastic(Holder,magnet,lens)		
058	Black plastic(Holder,lens)		
059	Black coated silvery metal(Nut,lens)		
060	Black coated silvery metal(Tube,lens)		
061	Black printed transparent glass(Glass,lens)		
062	Transparent glass(Lens(big),camera)		
063	Transparent glass(Lens(small),lens)		
064	Black coated silvery metal(Gasket,lens)		
065	Black coated silvery metal(Stopper,lens)		
066	Black plastic(Cap,crystal,camera)		

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Sample Number	Tested Material Description	Photo
067	Silvery metal(Cap,crystal,PCB)	
068	Silvery metal(Base,crystal,PCB)	
069	Silvery metal(Pin,crystal,PCB)	
070	Pewter glass(Glass,crystal,PCB)	
071	White plastic(Sleeve,pin,crystal,PCB)	
072	Black body(IC(small),PCB)	
073	Brown body(Capacitor(big),PCB)	
074	Brown body(Capacitor(small),PCB)	
075	Silvery metal(Case,switch,PCB)	
076	Black plastic(Switch,PCB)	
077	Silvery metal(Contact plate,switch)	
078	Brown plastic(Washer,switch,PCB)	
079	Silvery metal(Pin,switch,PCB)	
080	Black body(IC(big),PCB)	
081	Black body(Resistor,PCB)	

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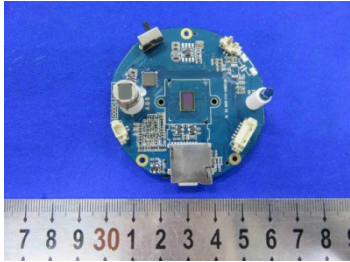
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Sample Number	Tested Material Description	Photo
082	Black body(Capacitor,PCB)	
083	Black body(Inductor,PCB)	
084	White body(Capacitor,PCB)	
085	Transparent glass(IC,PCB)	
086	Black body(Audion,PCB)	
087	White printed black body(Resistor,PCB)	
088	Silvery metal(SD,socket,PCB)	
089	Black plastic(SD,socket,PCB)	
090	Silvery metal(Spring,PCB)	
091	Silvery metal(Pin,SD,socket,PCB)	
092	Ivory plastic(Socket,PCB)	
093	Silvery metal(Holder,socket,PCB)	
094	Silvery metal(Pin,socket,PCB)	
095	Blue plastic(LED,PCB)	
096	Silvery metal(Pin,PCB)	

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Sample Number	Tested Material Description	Photo
097	Black body(IC(big rectangle),PCB(big))	
098	Brown body(Capacitor,PCB(big))	
099	Black body(Diode,PCB(big))	
100	Silvery metal(Case,PCB(small))	
101	Black body(Capacitor,PCB(small))	
102	Brown body(Capacitor(big),PCB(small))	
103	Brown body(Capacitor(small),PCB(small))	
104	White body(Capacitor,PCB(small))	
105	Golden metal(Crystal,PCB(small))	
106	Black body(IC,PCB(small))	
107	White printed black body(Resistor,PCB(big))	
108	Black body(IC(small),PCB(big))	
109	Black body(IC(middle),PCB(big))	
110	Black body(IC(big),PCB(big))	
111	Black body(IC(small rectangle),PCB(big))	
112	Golden metal(Crystal,PCB(big))	

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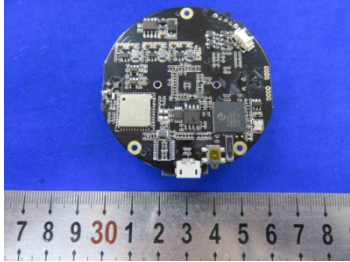
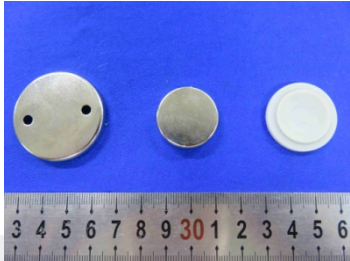
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Sample Number	Tested Material Description	Photo	
113	Black body(Diode,PCB)		
114	Silvery metal(Socket,PCB(big))		
115	Black plastic(Socket,PCB(big))		
116	Silvery metal(Pin,socket,PCB(big))		
117	Silvery metal(Case,switch,PCB)		
118	Black plastic(Switch,PCB)		
119	Transparent brown plastic(Film,switch,PCB)		
120	Silvery metal(Gasket,switch,PCB)		
121	Black plastic(Base,switch,PCB)		
122	Silvery metal(Contact plate,switch,PCB)		
123	Black printed beige plastic with coppery metal(PCB(small))		
124	Blue/black printed beige plastic with coppery metal(PCB(big))		
125	Silvery metal(Cap,holder,camera)		
126	Silvery magnet(Magnet,holder,camera)		
127	Grey soft plastic(Cushion,holder,camera)		

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Sample Number	Tested Material Description	Photo
128	Black soft plastic(Binding,cable)	
129	Silvery metal(Binding,cable)	
130	Black soft plastic(USB,cable)	
131	Silvery metal(USB,cable)	
132	White plastic(USB,cable)	
133	Golden/silvery metal(Pin,USB,cable)	
134	White printed black soft plastic(Wire jacket(outer),cable)	
135	Red soft plastic(Wire jacket(inner),cable)	
136	Green soft plastic(Wire jacket(inner),cable)	
137	White soft plastic(Wire jacket(inner),cable)	
138	Black soft plastic(Wire jacket(inner),cable)	
139	Coppery metal(Wire,cable)	
140	Black soft plastic(DC plug,cable)	
141	Silvery metal(DC plug,cable)	
142	Grey plastic(DC plug,cable)	
143	Silvery metal(Pin,DC plug,cable)	
144	Light golden metal(Pin,DC plug,cable)	



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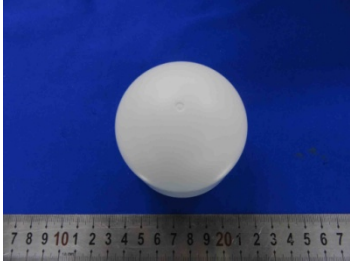

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Sample Number	Tested Material Description	Photo
145	White plastic(Case,camera)	
146	White soft plastic(Binding,cable)	
147	Silvery metal(Binding,cable)	
148	White soft plastic(USB,cable)	
149	Silvery metal(USB,cable)	
150	White plastic(USB,cable)	
151	White soft plastic(USB(inner),cable)	
152	Golden/silvery metal(Pin,USB,cable)	
153	White soft plastic(DC plug,cable)	
154	Silvery metal(DC plug,cable)	
155	Grey plastic(DC plug,cable)	
156	Silvery metal(Pin,DC plug,cable)	
157	Light golden metal(Pin,DC plug,cable)	
158	White soft plastic(Wire jacket(outer),cable)	

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TEST RESULT

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

Test Method: In-house method were used and Analysis is based on GC-MS, LC-MS, ICP-OES, UV-Vis and other detection techniques.

Test Item	Result (%)
	001+003+004+005+006+009+011++013+015
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	026+027+032+035+047+054+057+058
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	066+071+076+078+089+092+095+115
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	118+119+121+132+142+145+151+155
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	008+012+022+023+037+038+040+041+045
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	051+052+127+128+130+134+135
Bis (2-ethylhexyl) phthalate (DEHP) (CAS 117-81-7)	0.016
Other substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	136+137+138+140+146+148+151+153+158
Each of 197 substances of very high concern (SVHCs) [△]	ND

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TEST RESULT

Test Item	Result (%)
	002+010+014+016+017+018+024+025+036+039
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	042+043+044+046+048+049+053+056+059+060
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	064+065+067+068+069+075+077+079+088+090
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	091+093+094+096+100+105+112+114+116
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	117+120+122+125+126+129+131+133+139
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	141+143+144+147+149+152+154+156+157
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	021+034+050+123+124
Each of 197 substances of very high concern (SVHCs) [△]	ND



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TEST RESULT

Test Item	Result (%)
	007+055+061+062+063+070+085
Pb(CAS 7439-92-1)	0.6188
Other substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	019+020+028+029+030+031+033+072+073+074
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	080+081+082+083+084+086+087+097+098+099
Each of 197 substances of very high concern (SVHCs) [△]	ND

Test Item	Result (%)
	101+102+103+104+106+107+108+109+111+113
Each of 197 substances of very high concern (SVHCs) [△]	ND

Note / Key : “%” denotes percent by weight

ND = Not detected(<Reporting Limit)

Reporting Limit (%) : 0.01(Each)

“△” refer to APPENDIX for detailed of SVHCs

-As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of article must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

Remark: Composite testing(s) was/were specified by client.

Tested part(s) was/were specified by client.



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APPENDIX 1 - 197 SUBSTANCES OF VERY HIGH CONCERN (SVHCs)

1. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN OCTOBER 2008 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
1	Anthracene	120-12-7	204-371-1	PBT
2	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	Carcinogenic
3	Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction Endocrine disrupting properties
4	Cobalt dichloride*	7646-79-9	231-589-4	Carcinogenic
5	Diarsenic pentaoxide*	1303-28-2	215-116-9	Carcinogenic
6	Diarsenic trioxide*	1327-53-3	215-481-4	Carcinogenic
7	Sodium dichromate*	7789-12-0 ⁽¹⁾ , 10588-01-9 ⁽²⁾	234-190-3	Carcinogenic; Mutagenic; Toxic for reproduction
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	vPvB
9	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	Toxic for reproduction Endocrine disrupting properties
10	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ , 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	PBT
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	PBT, vPvB
12	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	PBT
13	Lead hydrogen arsenate*	7784-40-9	232-064-2	Carcinogenic; Toxic for reproduction
14	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction Endocrine disrupting properties
15	Triethyl arsenate*	15606-95-8	427-700-2	Carcinogenic



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2. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2010 AND MARCH 2010 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
16	Anthracene oil	90640-80-5	292-602-7	Carcinogenic, PBT, vPvB
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	Carcinogenic; Mutagenic, PBT, vPvB
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	Carcinogenic; Mutagenic, PBT, vPvB
21	Coal tar pitch, high temperature	65996-93-2	266-028-2	Carcinogenic, PBT, vPvB
22	2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic
23	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	Toxic for reproduction Endocrine disrupting properties
24	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	Toxic for reproduction
25	Lead chromate*	7758-97-6	231-846-0	Carcinogenic; Toxic for reproduction
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	Carcinogenic; Toxic for reproduction
27	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	Carcinogenic; Toxic for reproduction
28	Acrylamide	79-06-1	201-173-7	Carcinogenic; Mutagenic

3. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2010 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
29	Trichloroethylene	79-01-6	201-167-4	Carcinogenic
30	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	Toxic for reproduction
31	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	Toxic for reproduction
32	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	Toxic for reproduction
33	Sodium chromate*	7775-11-3	231-889-5	Carcinogenic; Mutagenic; Toxic for reproduction
34	Potassium chromate*	7789-00-6	232-140-5	Carcinogenic; Mutagenic
35	Ammonium dichromate*	7789-09-5	232-143-1	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium dichromate*	7778-50-9	231-906-6	Carcinogenic; Mutagenic; Toxic for reproduction

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4. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2010 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
37	Cobalt(II) sulphate*	10124-43-3	233-334-2	Carcinogenic; Toxic for reproduction
38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	Carcinogenic; Toxic for reproduction
39	Cobalt(II) carbonate*	513-79-1	208-169-4	Carcinogenic; Toxic for reproduction
40	Cobalt(II) diacetate*	71-48-7	200-755-8	Carcinogenic; Toxic for reproduction
41	2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction
42	2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction
43	Chromium trioxide*	1333-82-0	215-607-8	Carcinogenic; Mutagenic
44	Acid generated from chromium trioxide and their oligomers:	7738-94-5 13530-68-2 Not yet assigned	231-801-5 236-881-5 Not yet assigned	Carcinogenic

5. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2011 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction
46	Strontium Chromate*	7789-06-2	232-142-6	Carcinogenic
47	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	Toxic for reproduction
48	Hydrazine	302-01-2 7803-57-8	206-114-9	Carcinogenic
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	Toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	202-486-1	Toxic for reproduction
51	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	Toxic for reproduction

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6. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2011 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
52	1,2-Dichloroethane	107-06-2	203-458-1	Carcinogenic
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	Carcinogenic
54	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic
55	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	Equivalent level of concern
56	Aluminosilicate, Refractory Ceramic Fibres* ^a (RCF)	-	Index no. 650-017-00-8	Carcinogenic
57	Arsenic acid*	7778-39-4	231-901-9	Carcinogenic
58	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction
59	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction
60	Calcium arsenate*	7778-44-1	231-904-5	Carcinogenic
61	Dichromium tris(chromate)*	24613-89-6	246-356-2	Carcinogenic
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	Carcinogenic
63	Lead azide, Lead diazide*	13424-46-9	236-542-1	Toxic for reproduction
64	Lead dipicrate*	6477-64-1	229-335-2	Toxic for reproduction
65	Lead styphnate*	15245-44-0	239-290-0	Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	Toxic for reproduction
67	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	Carcinogenic
69	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	Carcinogenic
70	Trilead diarsenate*	3687-31-8	222-979-5	Carcinogenic; Toxic for reproduction
71	Zirconia Aluminosilicate, Refractory Ceramic Fibres* ^b (Zr-RCF)	-	Index no. 650-017-00-8	Carcinogenic



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7. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2012 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H, 3H,5H)-trione) §	2451-62-9	219-514-3	Mutagenic
78	β-TGIC (1,3,5-tris[(2S and2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione) §	59653-74-6	423-400-0	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic
81	[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	Carcinogenic
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dim ethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	Carcinogenic
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	Carcinogenic
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	Carcinogenic



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8. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2012 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	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	Equivalent level of concern
91	Hexahydro-1,3-dimethylphthalic 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	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	-	-	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0	284-032-2	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) ⁺	776297-69-9	-	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	Toxic for reproduction

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106	Furan	110-00-9	203-727-3	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Equivalent level of concern



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9. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2013 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
139	Cadmium*	7440-43-9	231-152-8	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	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]	-	-	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [‡]	3825-26-1	223-320-4	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) [‡]	335-67-1	206-397-9	Toxic for reproduction; PBT

10. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2013 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
145	Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic; Equivalent level of concern
146	Diethyl phthalate	84-75-3	201-559-5	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	Carcinogenic
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	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	Toxic for reproduction
150	Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction
151	Triethyl phosphate	25155-23-1	246-677-8	Toxic for reproduction



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11. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2014 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
152	Cadmium chloride	10108-64-2	233-296-7	Carcinogenic, Equivalent level of concern having probable serious effects to the environment
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction
154	Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt	-	239-172-9 234-390-0	Toxic for reproduction

12. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2014 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
156	Cadmium fluoride *	7790-79-6	232-222-0	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	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	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for Reproduction
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)	573-58-0	209-358-4	Carcinogenic



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13. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2015 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5 68648-93-1	271-094-0 272-013-1	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 stereoisomers of [1] and [2] or any combination thereof]	-	-	Very bioaccumulative

14. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2015 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
164	Nitrobenzene	98-95-3	202-716-0	Toxic for Reproduction
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	vPvB
167	1,3-propanesultone	1120-71-4	214-317-9	Carcinogenic
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	Toxic for Reproduction PBT

15. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2016 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	Carcinogenic Mutagenic Toxic for Reproduction PBT



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16. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2017 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	Toxic for Reproduction Endocrine disrupting properties for the environment
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	206-400-3	Toxic for Reproduction PBT
172	4-heptylphenol, branched and linear (4-HPbl)	-	-	endocrine-disrupting properties for the environment
173	4-tert-pentylphenol (PTAP)	80-46-6	201-280-9	endocrine-disrupting properties for the environment

17. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2017 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	206-587-1	vPvB

18. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2018 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3	-	vPvB
176	Benz[a]anthracene	56-55-3	200-280-6	Carcinogenic PBT vPvB
177	Cadmium nitrate	10325-94-7	233-710-6	Carcinogenic Toxic
178	Cadmium carbonate	513-78-0	208-168-9	Carcinogenic Toxic
179	Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic Toxic
180	Chrysene	218-01-9	205-923-4	Carcinogenic PBT vPvB
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]	-	-	Endocrine-disrupting properties for the environment



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19. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2018 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	PBT vPvB
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	PBT vPvB
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	PBT vPvB
185	Lead	7439-92-1	231-100-4	Toxic for reproduction
186	Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction
187	Benzo[ghi]perylene	191-24-2	205-883-8	PBT vPvB
188	Terphenyl hydrogenated	61788-32-7	262-967-7	vPvB
189	Ethylenediamine (EDA)	107-15-3	203-468-6	Respiratory sensitizing properties
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	Respiratory sensitizing properties
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	Toxic for reproduction Endocrine disrupting properties

20. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2019 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	Toxic for reproduction
193	Benzo[k]fluoranthene	207-08-9	205-916-6	Carcinogenic Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
194	Fluoranthene	206-44-0	205-912-4	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
195	Phenanthrene	85-01-8	201-581-5	Very persistent and very bioaccumulative
196	Pyrene	129-00-0	204-927-3	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	Endocrine-disrupting properties for the environment



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

Remark:

1. PBT = Persistent, bio accumulative and toxic as defined in Regulation (EC) No 1907/2006
2. vPvB = Very persistent and very bio accumulative as defined in Regulation (EC) No 1907/2006
3. ND = Not Detected
4. *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.
5. **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.
6. [§]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.
7. ^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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
8. ^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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
9. [†][1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.
10. [‡]PFOA and APFO are reported together. The result is based on PFOA 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.

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Note:

1. The limit of 0.1% (w/w) applies to an article. The results were calculated assuming as 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, definition of an article, substance and 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 of 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 meets in 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 of 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.

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Photo of the Submitted Sample



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