



Enjoy Life

# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 1 of 27

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

Sample Description/Name:	WIRELESS THERMAL PRINTER	Brand:	OKAA
Color:	/	Supplier:	/
Order No.:	/	Exported to:	/
Style No.:	PAPERGO	Product End Use:	/
Content:	/	Contact Information:	
Age:	/	Report Date:	Apr 30, 2020
Sample Receive Date:	Mar 13, 2020		
Test Period:	From Mar 13, 2020 to Apr 29, 2020		

Test Requested: 205 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: Base on the said test, the concentration of each of 205 SVHCs is < 0.1%(w/w) in the specified test component of submitted samples(s).

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

Tony Tang Manager, Chemical Lab

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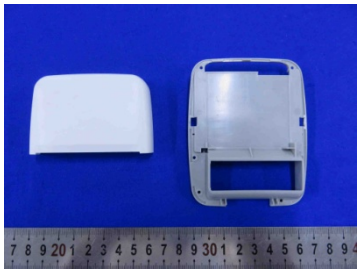

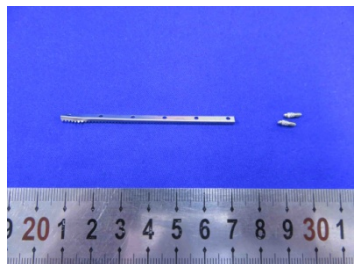
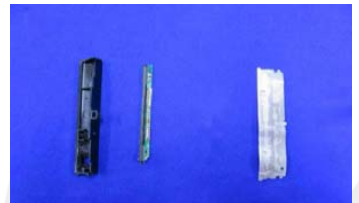
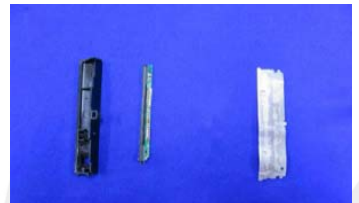
# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 2 of 27

## TESTED SUBJECT DESCRIPTION

Sample Number	Tested Material Description	Style	Photo
001	White plastic(Case,printer)	-	
002	Grey plastic(Frame,printer)	-	
003	Silver coated translucent soft plastic(Button,printer)	-	
004	Silvery metal(Screw(big),printer)	-	
005	Silvery metal(Screw(small),printer)	-	
006	Silvery metal(Spring,screw(small))	-	
007	Black coated silvery metal(Screw,printer)	-	
008	Silvery metal(Teeth,printer)	-	
009	Silvery metal(Shaft,printer)	-	
010	Black plastic(Blade,printer)	-	
011	Black glue(Glue,printer)	-	
012	Black body(Resistor,printer)	-	
013	Green plastic with coppery metal(PCB,printer)	-	

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Enjoy Life

# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 3 of 27

Sample Number	Tested Material Description	Style	Photo
014	Silvery metal(Gasket,PCB)	-	
015	White plastic(Gear,roller,printer)	-	
016	Black plastic(Washer,roller,printer)	-	
017	Black soft plastic(Roller,printer)	-	
018	Black printed silver plastic with adhesive(Sticker,printed)	-	
019	Silvery metal(Tube,shaft,motor)	-	
020	Brass metal(Rotor,motor)	-	
021	Silvery metal(Shaft,motor)	-	
022	Bronze metal(Nut(big),motor)	-	
023	White plastic(Washer,motor)	-	
024	Grey coated silvery metal(Gasket(thick),motor)	-	

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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 4 of 27

Sample Number	Tested Material Description	Style	Photo
025	Silvery metal(Case,motor)	-	
026	Grey coated silvery metal(Layer,motor)	-	
027	Coppery metal(Coil,motor)	-	
028	Black plastic(Holder,coil,motor)	-	
029	Grey magnet(Magnet,motor)	-	
030	Grey coated silvery metal(Gasket(thin),motor)	-	
031	Bronze metal(Nut(small),motor)	-	
032	Grey coated silvery metal(Holder,motor)	-	
033	Silvery metal(Spring,holder,motor)	-	
034	Black fabric with adhesive(Sticker,PCB)	-	
035	Black printed white plastic with adhesive(Sticker,PCB)	-	
036	Translucent brown plastic(Washer,PCB)	-	
037	Brown plastic with coppery metal(PCB,printer)	-	
038	Black body(IC,PCB)	-	

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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 5 of 27

Sample Number	Tested Material Description	Style	Photo
039	Beige plastic(Washer,PCB)	-	
040	Translucent blue plastic(Washer,PCB)	-	
041	Blue printed white plastic with silvery metal(PCB,printer)	-	
042	Black foam with adhesive(Washer,PCB)	-	
043	Transparent body(DS4,PCB)	-	
044	Beige plastic(Button,S1,PCB)	-	
045	Silvery metal(Cap,S1,PCB)	-	
046	Silvery/golden metal(Gasket,S1,PCB)	-	
047	Beige plastic(Base,S1,PCB)	-	
048	Silvery metal(Contact plate,S1,PCB)	-	
049	Black plastic(Stopper,P3,PCB)	-	
050	Beige plastic(P3,PCB)	-	
051	Silvery metal(Holder,P3,PCB)	-	
052	Silvery metal(Pin,P3,PCB)	-	

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Enjoy Life

# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 6 of 27

Sample Number	Tested Material Description	Style	Photo
053	Brown body(Capacitor(big),PCB(small))	-	
054	Brown body(Capacitor(small),PCB(small))	-	
055	Black body(Capacitor,PCB(small))	-	
056	White body(Capacitor,PCB(small))	-	
057	Black body(IC,PCB(small))	-	
058	Light golden metal(Crystal,PCB(small))	-	
059	Green printed translucent plastic with coppery metal(PCB(small),printer)	-	
060	White body(Capacitor,PCB(big))	-	
061	Brown body(Capacitor,PCB(big))	-	
062	White printed black body(Resistor(small),PCB(big))	-	
063	Black body(IC(big),PCB(big))	-	
064	Black body(Audion,PCB(big))	-	
065	White printed black body(Resistor(big),PCB(big))	-	
066	Black body(IC(small),PCB(big))	-	
067	Black body(IC(middle),PCB(big))	-	

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Enjoy Life

# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 7 of 27

Sample Number	Tested Material Description	Style	Photo
068	Brown body(Capacitor(small),PCB)	-	
069	Brown body(Capacitor(big),PCB)	-	
070	Black body(Audion,PCB)	-	
071	Black printed silvery metal(Case,capacitor)	-	
072	Black soft plastic(Stopper,capacitor)	-	
073	Brown body(Filler,capacitor)	-	
074	Silvery metal(Pin,capacitor)	-	
075	Black plastic(Washer,capacitor)	-	
076	Black body(Diode,PCB)	-	
077	Black plastic(Socket,PCB)	-	
078	Silvery metal(Pin,socket,PCB)	-	
079	Black body(IC,PCB)	-	
080	Black body(Inductor,PCB)	-	

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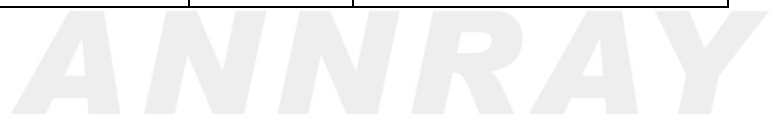
# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 8 of 27

Sample Number	Tested Material Description	Style	Photo
081	Coppery metal(Coil,inductor,PCB)	-	
082	White printed black body(Resistor,PCB)	-	
083	Silvery metal(Socket,PCB)	-	
084	Black plastic(Socket,PCB)	-	
085	Light golden metal(Pin,socket,PCB)	-	
086	White/green printed translucent plastic with coppery metal(PCB,printer)	-	
087	White printed black soft plastic(Wire jacket,PCB)	-	
088	Black printed red soft plastic(Wire jacket,PCB)	-	
089	Silvery metal(Wire,PCB)	-	
090	Transparent plastic with adhesive(Sticker,battery)	-	
091	Blue plastic(Case,battery)	-	
092	Blue plastic with adhesive(Sticker,battery)	-	



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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 9 of 27

Sample Number	Tested Material Description	Style	Photo
093	Black body(IC(big),PCB,battery)	-	
094	Black body(IC(small),PCB,battery)	-	
095	Silvery metal(Gasket,PCB,battery)	-	
096	Green printed transparent plastic with coppery (PCB,battery)	-	
097	Black foam with adhesive(Washer,PCB,battery)	-	
098	Silvery battery(battery,printer)	-	
099	White soft plastic(Binding,cable)	-	
100	Silvery metal(Binding,cable)	-	
101	White soft plastic(Case,USB,cable)	-	
102	Silvery metal(USB,cable)	-	
103	White plastic(USB,cable)	-	

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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 10 of 27

Sample Number	Tested Material Description	Style	Photo
104	Silvery/golden metal(Pin,USB,cable)	-	
105	White soft plastic(Wire jacket(outer),cable)	-	
106	Black soft plastic(Wire jacket(inner),cable)	-	
107	Red soft plastic(Wire jacket(inner),cable)	-	
108	Coppery metal(Wire,cable)	-	
109	White soft plastic(Case,DC plug)	-	
110	Silvery metal(DC plug,cable)	-	
111	Black plastic(DC plug,cable)	-	
112	Silvery metal(Contact plate,DC plug)	-	
113	Silvery metal(Pin,DC plug)	-	



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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 11 of 27

## TEST RESULT

### 205 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+002+010+011+015+016+023+028	035+036+039+040+042+044+047+049+050+018
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	075+077+084+090+091+092+097+103+111+034	003+017+072+087+088
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	099+101+105+106+107+109	004+005+006+007+008+009+012+014
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	020+021+022+024+025+026+027+029+030	031+032+033+045+046+048+051+052
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	058+071+074+078+081+083+085+089	095+100+102+104+108+110+112+113+019
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	098	013+037+041+059+086+096
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

Test Item	Result (%)	
	038+043+053+054+055+056+057+060+061	062+063+064+065+066+067+068+069
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	ND	ND

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# Test Report

No. A200313039002

Date: Apr 30, 2020

Page 12 of 27

## TEST RESULT

Test Item	Result (%)	
	070+073+076+079+080+082+093+094	-
Each of 205 substances of very high concern (SVHCs) <sup>△</sup>	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.

The test items(020-031) was/were raw materials and provided by client dated on Mar 24, 2020.

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Test Report

No. A200313039002

Date: Apr 30, 2020

Page 13 of 27

APPENDIX 1 - 205 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 <sup>(1)</sup> , 10588-01-9 <sup>(2)</sup>	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 <sup>(3)</sup> , 25637-99-4 <sup>(4)</sup> 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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 14 of 27

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 <sup>(5)</sup> , 12179-04-3 <sup>(6)</sup> , 1303-96-4 <sup>(7)</sup>	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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**Test Report**

No. A200313039002

Date: Apr 30, 2020

Page 15 of 27

**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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Test Report

No. A200313039002

Date: Apr 30, 2020

Page 16 of 27

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* <sup>a</sup> (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* <sup>b</sup> (Zr-RCF)	-	Index no. 650-017-00-8	Carcinogenic



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Test Report

No. A200313039002

Date: Apr 30, 2020

Page 17 of 27

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]dimethylammonium 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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 18 of 27

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-methylphthalic 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 <sup>+</sup>	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) <sup>+</sup>	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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 19 of 27

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 <sup>+</sup>	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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Test Report

No. A200313039002

Date: Apr 30, 2020

Page 20 of 27

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) <sup>+</sup>	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) <sup>‡</sup>	3825-26-1	223-320-4	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) <sup>‡</sup>	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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Test Report

No. A200313039002

Date: Apr 30, 2020

Page 21 of 27

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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Enjoy Life

**Test Report**

No. A200313039002

Date: Apr 30, 2020

Page 22 of 27

**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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 23 of 27

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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 24 of 27

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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Enjoy Life

Test Report

No. A200313039002

Date: Apr 30, 2020

Page 25 of 27

21. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JULY 2019 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
198	2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction
199	Tri (4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	Endocrine-disrupting properties for the environment
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	Equivalent level of concern having probable serious effects to the environment Equivalent level of concern having probable serious effects to human health
201	4-tert-butylphenol	98-54-4	202-679-0	Endocrine-disrupting properties for the environment

22. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2020 BY ECHA

No.	Substance name	CAS No.	EC No.	SVHC classification
202	Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57 (c))
203	2-benzyl-2-dimethylamino-4'-morpholinobutyronone	119313-12-1	404-360-3	Toxic for reproduction (Article 57 (c))
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57 (c))
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)

- (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



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Enjoy Life

## Test Report

No. A200313039002

Date: Apr 30, 2020

Page 26 of 27

### 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. <sup>§</sup>TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and  $\beta$ -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. <sup>a</sup>Refer 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 ( $\mu\text{m}$ ) 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. <sup>b</sup>Refer 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 ( $\mu\text{m}$ ). 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. <sup>+</sup>[1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.
10. <sup>z</sup>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.

### 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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Enjoy Life

## Test Report

No. A200313039002

Date: Apr 30, 2020

Page 27 of 27

### Photo of the Submitted Sample



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

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