

Test Report

Report No.: **NB2019092919**

Date: **October 15, 2019**

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Applicant: INNOVISTA SENSORS INDUSTRY (HUIZHOU) LTD.
3RD FLOOR, NO. 6, HUIFENG WEST 2ND ROAD, PINGNAN INDUSTRIAL
Address: PARK - ZHONGKAI HI-TECH INDUSTRIAL DEVELOPMENT
ZONE - HUIZHOU, GUANGDONG, P.R. CHINA, 516006

The following merchandise were submitted and identified by the clients as:

Sample Name: **TIMER RELAY**
Model No.: **DZ1R08MV1**

The following information were confirmed by the laboratory:

Testing Period: **From September 25, 2019 to September 30, 2019**
Test Results: **Please refer to next page(s)**

Summary of test results

Test Requested		Conclusion
1	Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH	More than 0.1%

Remark: **Composited test by client's request.**

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:

Jum
Manager



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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I001	Black plastic clasp	Time limit relay shell
I002	Light grey plastic with grey printing	Time limit relay shell
I003	Transparent plastic	Time limit relay shell
I004	Orange plastic knob	Time limit relay shell
I005	Transparent plastic	Digital display screen
I006	White foam with adhesive	Digital display screen
I007	Bright black plastic with adhesive	Digital display screen
I008	Black glue	Digital display screen
I009	Soft brown PCB with white printing	Digital display screen
I010	Light black transparent plastic	Digital display screen
I011	Transparent mirror glass with black print	Digital display screen
I012	Black plastic base	Digital display screen PCB
I013	Golden metal pin	Digital display screen PCB
I014	Brown plastic	Digital display screen PCB
I015	Beige plastic base	Digital display screen PCB
I016	Dark green PCB with white printing	Digital display screen PCB
I017	Black plastic	Time limit relay mainboard
I018	Silvery metal pin	Time limit relay mainboard
I019	Black triode body	Time limit relay mainboard
I020	Brown/silvery patch capacitor	Time limit relay mainboard
I021	Black IC body	Time limit relay mainboard
I022	Yellow cap capacitor	Time limit relay mainboard
I023	Black transformer body	Time limit relay mainboard
I024	Silvery metal pin	Time limit relay mainboard
I025	Black I inductance	Time limit relay mainboard
I026	Copper wire	Time limit relay mainboard
I027	Black body	Time limit relay mainboard
I028	Brown resistance main body	Time limit relay mainboard
I029	Silvery metal pin	Time limit relay mainboard
I030	Black plastic base	Electrolysis capacitor
I031	Silvery metal case with black printing	Electrolysis capacitor
I032	Black soft plastic plug	Electrolysis capacitor
I033	Silvery metal pin	Electrolysis capacitor
I034	Brown paper roll	Electrolysis capacitor
I035	Grey metal foil	Electrolysis capacitor

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I036	Silvery metal support	Rotary switch
I037	Black plastic shell	Rotary switch
I038	Golden plated silvery metal gasket	Rotary switch
I039	Silvery metal pin	Rotary switch
I040	Black plastic gear	Rotary switch
I041	Silvery metal axle	Rotary switch
I042	Black soft plastic washer	Rotary switch
I043	Silvery metal gasket	Rotary switch
I044	Black IC body	Time limit relay mainboard
I045	Black IC body	Time limit relay mainboard
I046	Black IC body	Time limit relay mainboard
I047	Black/silvery SMT inductor	Time limit relay mainboard
I048	White/silver patch capacitor	Time limit relay mainboard
I049	Black diode body	Time limit relay mainboard
I050	White/silver patch capacitor	Time limit relay mainboard
I051	Black/silver patch resistor	Time limit relay mainboard
I052	Brown/silver patch capacitor	Time limit relay mainboard
I053	Silver crystal oscillator body	Time limit relay mainboard
I054	Silvery metal solder	Time limit relay mainboard
I055	Silvery metal screw	Circuit board (short)
I056	Black plastic base	Circuit board (short)
I057	Silvery metal clamp	Circuit board (short)
I058	Silvery metal pin	Circuit board (short)
I059	White plastic shell with grey printing	Relay
I060	Black plastic	Relay
I061	Copper metal axle	Relay
I062	Copper wire	Relay
I063	Golden metal shrapnel	Relay
I064	Copper metal wafer (thin)	Relay
I065	Copper metal wafer (thick)	Relay
I066	Silvery metal contact	Relay
I067	Black soft plastic outer wire jacket	Circuit board (short)
I068	Black soft plastic inside wire jacket	Circuit board (short)
I069	Silvery metal wire	Circuit board (short)
I070	Silvery metal solder	Circuit board (short)

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I071	Light yellow glue	Circuit board (short)
I072	Black capacitor body	Circuit board (long)
I073	Silvery metal pin	Circuit board (long)
I074	Blue resistor body with color printing	Circuit board (long)
I075	Blue plastic shell	Potentiometer
I076	Blue filler	Potentiometer
I077	Silvery plastic film	Potentiometer
I078	Silvery metal pin	Potentiometer
I079	Transparent plastic	Battery cover
I080	Silvery metal	Battery pin
I081	White paper black printing with adhesive	Battery shell
I082	White plastic with green/black printing	Battery shell
I083	Silvery battery body	Circuit board (long)
I084	Green PCB with white printing	Circuit board (long)

Test Group	Group Description	Composition
A	All Metal	I011
B	All Metal	I013+I018+I024+I026+I029+I031+I033+I035+I036+I038
C	All Metal	I019+I020+I021+I022+I023+I025+I027+I028+I044+I045
D	All Metal	I039+I041+I043+I054+I055+I057+I058+I061+I062+I063
E	All Metal	I046+I047+I048+I049+I050+I051+I052+I053+I072+I074
F	All Metal	I064+I065+I066+I069+I070+I073+I078+I080
G	Non-metal	I001+I002+I003+I004+I005+I006+I007+I008+I009+I010
H	Non-metal	I012+I014+I015+I016+I017+I030+I032+I034+I037+I040
I	Non-metal	I042+I056+I059+I060+I067+I068+I071+I075+I076+I077
J	Non-metal	I079+I081+I082+I084
K	Other	I083

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

Test Method: Analysis is based on GC, GC-MS, HPLC, IC, ICP and UV, with various detection techniques.

Substance Name	Result (%)	
	A	B
201 items Substances of very high concern(SVHCs)	N.D.(each)	N.D.(each)

Substance Name	Result (%)	
	C	D
201 items Substances of very high concern(SVHCs)	Lead hydrogen arsenate*:0.51 Lead azide, Lead diazide*:0.43 Lead styphnate*:0.69 Lead dipicrate*:1.00 Lead(II) bis(methanesulfonate)*:0.58 Lead bis(tetrafluoroborate)*:0.56 Lead tetroxide (orange lead)*:0.34 Lead Titanium Zirconium Oxide*:0.63 Acetic acid, lead salt, basic*:0.48 [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*:0.40 Lead titanium trioxide*:0.44 Lead oxide sulphate*:0.47 Lead dinitrate*:0.49 Lead cyanamidate*:0.36 Tetralead trioxide sulphate*:0.36 Trilead bis(carbonate)dihydroxide (basic lead carbonate)*:0.38 Dioxobis(stearato)trilead*:0.60 Lead oxide (lead monoxide)*:0.33 Pentalead tetraoxide sulphate*:0.35 Silicic acid, lead salt*:0.42 Trilead dioxide phosphonate*:0.36 Tetraethyllead*:0.47 Sulfurous acid, lead salt, dibasic*:0.42 Lead di(acetate):0.48 Lead:0.30 N.D.(each)	Lead hydrogen arsenate*:0.06 Lead azide, Lead diazide*:0.05 Lead styphnate*:0.08 Lead dipicrate*:0.11 Lead(II) bis(methanesulfonate)*:0.06 Lead bis(tetrafluoroborate)*:0.06 Lead tetroxide (orange lead)*:0.04 Lead Titanium Zirconium Oxide*:0.07 Acetic acid, lead salt, basic*:0.05 [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*:0.04 Lead titanium trioxide*:0.05 Lead oxide sulphate*:0.05 Lead dinitrate*:0.05 Lead cyanamidate*:0.04 Tetralead trioxide sulphate*:0.04 Trilead bis(carbonate)dihydroxide (basic lead carbonate)*:0.04 Dioxobis(stearato)trilead*:0.07 Lead oxide (lead monoxide)*:0.04 Pentalead tetraoxide sulphate*:0.04 Silicic acid, lead salt*:0.05 Trilead dioxide phosphonate*:0.04 Tetraethyllead*:0.05 Sulfurous acid, lead salt, dibasic*:0.05 Lead di(acetate):0.05 Lead:0.03 N.D.(each)

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Substance Name	Result (%)	
	E	F
201 items Substances of very high concern(SVHCs)	Lead hydrogen arsenate*:0.35 Lead azide, Lead diazide*:0.30 Lead styphnate*:0.48 Lead dipicrate*:0.69 Lead(II) bis(methanesulfonate)*:0.41 Lead bis(tetrafluoroborate)*:0.39 Lead tetroxide (orange lead)*:0.23 Lead Titanium Zirconium Oxide*:0.43 Acetic acid, lead salt, basic*:0.33 [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*:0.28 Lead titanium trioxide*:0.31 Lead oxide sulphate*:0.33 Lead dinitrate*:0.34 Lead cyanamidate*:0.25 Tetralead trioxide sulphate*:0.25 Trilead bis(carbonate)dihydroxide (basic lead carbonate)*:0.26 Dioxobis(stearato)trilead*:0.41 Lead oxide (lead monoxide)*:0.23 Pentalead tetraoxide sulphate*:0.25 Silicic acid, lead salt*:0.29 Trilead dioxide phosphonate*:0.25 Tetraethyllead*:0.33 Sulfurous acid, lead salt, dibasic*:0.29 Lead di(acetate):0.33 Lead:0.21 N.D.(each)	N.D.(each)

Substance Name	Result (%)	
	G	H
201 items Substances of very high concern(SVHCs)	N.D.(each)	N.D.(each)

Substance Name	Result (%)	
	I	J
201 items Substances of very high concern(SVHCs)	N.D.(each)	N.D.(each)

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Substance Name	Result (%)
	K
201 items Substances of very high concern(SVHCs)	Cobalt dichloride*:0.04 Cobalt(II) sulphate*:0.06 Cobalt(II) dinitrate*:0.07 Cobalt(II) carbonate*:0.04 Cobalt(II) diacetate*:0.06 N.D.(each)

Note: N.D. = Not detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 The list of analytes is summarized in table of Appendix.

MDL= Detection Limit
 10000 mg/kg = 1 %

APPENDIX The Candidate List of Substances of Very High Concern

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

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.01	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	0.01	Toxic for reproduction
23 [^]	Aluminosilicate, Refractory Ceramic Fibres* ^a	Index no. 650-017-00-8		0.01	Carcinogenic
24 [^]	Zirconia Aluminosilicate, Refractory Ceramic Fibres* ^b	Index no. 650-017-00-8		0.01	Carcinogenic
25 [^]	Lead chromate*	7758-97-6	231-846-0	0.01	Carcinogenic; Toxic for reproduction
26 [^]	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.01	Carcinogenic; Toxic for reproduction
27 [^]	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.01	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	0.01	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	0.01	Carcinogenic
32 [^]	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	0.01	Toxic for reproduction
33 [^]	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	0.01	Toxic for reproduction
34 [^]	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.01	Toxic for reproduction
35 [^]	Sodium chromate*	7775-11-3	231-889-5	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36 [^]	Potassium chromate*	7789-00-6	232-140-5	0.01	Carcinogenic; Mutagenic
37 [^]	Ammonium dichromate*	7789-09-5	232-143-1	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38 [^]	Potassium dichromate*	7778-50-9	231-906-6	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39 [^]	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01	Carcinogenic; Toxic for reproduction
40 [^]	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01	Carcinogenic; Toxic for reproduction
41 [^]	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01	Carcinogenic; Toxic for reproduction
42 [^]	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	0.01	Toxic for reproduction

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
44	2-Ethoxyethanol	110-80-5	203-804-1	0.01	Toxic for reproduction
45 [^]	Chromium trioxide*	1333-82-0	215-607-8	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	0.01	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01	Toxic for reproduction
48 [^]	Strontium Chromate*	7789-06-2	232-142-6	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	0.01	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	0.01	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	0.01	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	0.01	Toxic for reproduction
54 [^]	Dichromium tris (chromate)*	24613-89-6	246-356-2	0.01	Carcinogenic
55 [^]	Potassium hydroxyoctaoxidizincated i-chromate*	11103-86-9	234-329-8	0.01	Carcinogenic
56 [^]	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.01	Toxic for reproduction
59	2-Methoxyaniline;o-Anisidine	90-04-0	201-963-1	0.01	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.01	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	0.01	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.01	Toxic for reproduction
63 [^]	Arsenic acid*	7778-39-4	231-901-9	0.01	Carcinogenic
64 [^]	Calcium arsenate*	7778-44-1	231-904-5	0.01	Carcinogenic
65 [^]	Trilead diarsenate*	3687-31-8	222-979-5	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.01	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.01	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.01	Carcinogenic
69 [^]	Lead azide, Lead diazide*	13424-46-9	236-542-1	0.01	Toxic for reproduction

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
70 [^]	Lead styphnate*	15245-44-0	239-290-0	0.01	Toxic for reproduction
71 [^]	Lead dipicrate*	6477-64-1	229-335-2	0.01	Toxic for reproduction
72	1,2-bis(2- methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	Toxic for reproduction
74 [^]	Diboron trioxide*	1303-86-2	215-125-8	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	0.01	Toxic for reproduction
76 [^]	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) [§]	2451-62-9	219-514-3	0.01	Mutagenic
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione) [§]	59653-74-6	423-400-0	0.01	Mutagenic
79	4,4'-bis(dimethylamino)benzo phenome (Michler's ketone)	90-94-8	202-027-5	0.01	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01	Carcinogenic
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohex a-2,5-dien-1-ylidene]dimethylammoniu m chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01	Carcinogenic
82	[4-[[4-anilino-1- naphthyl][4-(dimethylamino) phenyl]methylene]cyclohex a-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.01	Carcinogenic
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1- Methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.01	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.01	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	0.01	Toxic for reproduction ; equivalent level of concern

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	0.01	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	0.01	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01	Equivalent level of concern
91	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01	Equivalent level of concern
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	0.01	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.01	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear +	84777-06-0	284-032-2	0.01	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.01	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) +	776297-69-9	-	0.01	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.01	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.01	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.01	Very persistent and very bioaccumulative
100 [^]	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01	Toxic for reproduction
101 [^]	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	0.01	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	0.01	Toxic for reproduction
104 [^]	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.01	Toxic for reproduction
105 [^]	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	0.01	Toxic for reproduction

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
108	o-Toluidine;2-Aminotoluene	95-53-4	202-429-0	0.01	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.01	Carcinogenic; Mutagenic
111 [^]	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	0.01	Toxic for reproduction
112 [^]	Lead titanium trioxide*	12060-00-3	235-038-9	0.01	Toxic for reproduction
113 [^]	Lead oxide sulphate*	12036-76-9	234-853-7	0.01	Toxic for reproduction
114 [^]	Lead dinitrate*	10099-74-8	233-245-9	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.01	Carcinogenic
116 [^]	Lead cyanamidate*	20837-86-9	244-073-9	0.01	Toxic for reproduction
117 [^]	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine 5-(2,4-toluene-diamine)	95-80-7	202-453-1	0.01	Carcinogenic
119 [^]	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01	Toxic for reproduction
120 [^]	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	0.01	Carcinogenic
122 [^]	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01	Toxic for reproduction
123 [^]	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	0.01	Carcinogenic
125 [^]	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.01	Toxic for reproduction
126 [^]	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.01	Carcinogenic; Mutagenic
128 [^]	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01	Toxic for reproduction
129 [^]	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	0.01	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.01	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.01	Carcinogenic
134 [^]	Tetraethyllead*	78-00-2	201-075-4	0.01	Toxic for reproduction
135 [^]	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01	Toxic for reproduction
136 [^]	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	0.01	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.01	Equivalent level of concern
139 [^]	Cadmium*	7440-43-9	231-152-8	0.01	Carcinogenic; Equivalent level of concern

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
140 [^]	Cadmium oxide*	1306-19-0	215-146-2	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	0.01	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well- defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	0.01	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [≠]	3825-26-1	223-320-4	0.01	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) [≠]	335-67-1	206-397-9	0.01	Toxic for reproduction; PBT
145	Cadmium sulphide	1306-23-6	215-147-8	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	0.01	Toxic for reproduction
147	Disodium 3,3'-[[1,1'- biphenyl]-4, 4'-diylbis(azo)]bis (4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.01	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	0.01	Carcinogenic
149	Imidazolidine-2-thione (2- imidazoline-2-thiol)	96-45-7	202-506-9	0.01	Toxic for reproduction
150 [^]	Lead di(acetate)	301-04-2	206-104-4	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01	Toxic for reproduction
152 [^]	Cadmium chloride*	10108-64-2	233-296-7	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear ⁺⁺	68515-50-4	271-093-5	0.01	Toxic for reproduction
154 [^]	Sodium peroxometaborate*	7632-04-4	231-556-4	0.01	Toxic for reproduction
155 [^]	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	0.01	Toxic for reproduction

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
156 [^]	Cadmium fluoride *	7790-79-6	232-222-0	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
157 [^]	Cadmium sulphate *	10124-36-4; 31119-53-6	233-331-6	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.01	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.01	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate (DOTE) *	15571-58-1	239-622-4	0.01	Toxic for Reproduction
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate (reaction mass of DOTE and MOTE) *	-	-	0.01	Toxic for Reproduction
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	271-094-0; 272-013-1	0.01	Toxic for reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	-	0.01	Very persistent and very bioaccumulative
164	1,3-propanesultone	1120-71-4	214-317-9	0.01	Carcinogenic

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.01	Toxic for reproduction
168	Perfluorononan-1-oic acid acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (benzo[a]pyrene)	200-028-5	50-32-8	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; PBT; vPvB
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01	Toxic for reproduction
171	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] (4-Hpbl)	-	-	0.01	Equivalent level of concern having probable serious effects to the environment
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3830-45-3, 335-76-2, 3108-42-7	-, 206-400-3, 221-470-5	0.01	Toxic for reproduction; PBT
173	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	201-280-9	0.01	Equivalent level of concern having probable serious effects to the environment
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.01	vPvB
175	Chrysene	218-01-9	205-923-4	0.01	Carcinogenic; PBT; vPvB
176	Benz[a]anthracene	56-55-3	200-280-6	0.01	Carcinogenic; PBT; vPvB
177 [^]	Cadmium nitrate	10325-94-7	233-710-6	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure
178 [^]	Cadmium hydroxide	21041-95-2	244-168-5	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
179 [^]	Cadmium carbonate	513-78-0	208-168-9	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.01	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	-	-	0.01	Endocrine disrupting properties
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01	Respiratory sensitising properties
183	Dicyclohexyl Phthalate (DCHP)	84-61-7	201-545-9	0.01	Toxic for reproduction Endocrine disrupting properties
184	Benzo[ghi]perylene	191-24-2	205-883-8	0.01	PBT, vPvB
185	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01	PBT, vPvB
186 [^]	Disodium octaborate	12008-41-2	234-541-0	0.01	Toxic for reproduction
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01	PBT, vPvB
188	Ethylenediamine	107-15-3	203-468-6	0.01	Respiratory sensitising properties
189 [^]	Lead	7439-92-1	231-100-4	0.01	Toxic for reproduction
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01	PBT, vPvB
191	Terphenyl hydrogenated	61788-32-7	262-967-7	0.01	vPvB
192	2,2-bis(4-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01	Toxic for reproduction
193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01	Carcinogenic, PBT, vPvB
194	Fluoranthene	206-44-0	205-912-4	0.01	PBT, vPvB
195	Phenanthrene	85-01-8	201-581-5	0.01	vPvB
196	Pyrene	129-00-0 1718-52-1	204-927-3	0.01	PBT, vPvB
197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	239-139-9	0.01	Endocrine disrupting properties

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No.	Substance name	CAS No.	EC No.	Detection Limit (%)	Basis for identification as a SVHC
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	Endocrine disrupting properties
199	4-tert-butylphenol	98-54-4	202-679-0	0.01	Endocrine disrupting properties
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	Toxic for reproduction
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	0.01	Endocrine disrupting properties

- (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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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. δ 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. \neq 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.
11. ++[1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.
12. \diamond Result is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.
13. " \wedge " = the substance tested for metallic materials.

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Samples photograph



NBTS authenticate the photograph on original report only

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