

TEST REPORT

Job No./Report No TR1719732

Date:22 April 2020 Page 1 of 34

KUAS TEKNOLOJİ ELEKTRONİK YAZILIM VE ISI SİSTEMLERİ SAN. TİC. LTD. ŞTİ.

Akçaburgaz Mahallesi 3078 Sokak No:2 Kırşehir-Esenyurt / İSTANBUL

TEL: 0212 871 37 71

FAX: 0212 871 37 70

To the attention of Fehmi Aydın

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

SGS Job No. : TR 1719732
Product Name : Infrared Panel Radiator Electric Heater
Brand Name : KUAS
Model No. : ISP 300-1100 & Hybridboard 600-1400
Date of Sample Received : 19 March 2020
Testing Period : 22 April 2020

Test Requested :

As requested by client, SVHC screening is performed according to:

- Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before July 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.
- Four (4) substances newly included in the Consultation List of Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on January 16, 2020 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

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Unless otherwise requested SGS applies shared risk decision rule

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

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Summary:

According to the specified scope and analytical techniques, SVHC with concentration > 0.1% (w/w) detected in the submitted sample:

- Lead

Potential SVHC with concentration > 0.1% (w/w) that could be present in the submitted sample:

- Boric acid*
- Disodium tetraborate, anhydrous*
- Tetraboron disodium heptaoxide, hydrate*
- Disodium octaborate*

WARNING

* Please refer to Note 2 on the following page

The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd
Kontrol Servisleri A.Ş.

Uğur Yılmaz
Hardline & CPCH Customer Services Team Leader

Bora Şirinbilek
Hardline & CPCH Testing Services Manager



Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

- <https://echa.europa.eu/candidate-list-table>(Candidate list)

The lists are under evaluation by ECHA and may subject to change in the future.

2. In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a 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 in the Candidate List.

If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:
Sample Description:

- A. Infrared Panel Radiator Electric Heater – Hybridboard 600-1400
- B. Infrared Panel Radiator Electric Heater – ISP 300-1100

Test Component Part:

- A1 White Metal Main
- A2 Silver Metal Back Cover Fixing Screw
- A3 Silver Metal Inner Middle Panel Fixing Nut
- A4 Bronze Metal Inner Middle Panel Fixing Screw
- A5 White Plastic Inner Middle Panel Fixing Gasket
- A6 White Metal Inner Middle Panel Main
- A7 Silver Metal Bottom Part Main Fixing Screw
- A8 Silver Metal Internal Parts Fireproof Folio
- A9 Transparent/White Plastic Folio Inner Resistance Cable
- A10 White Textile Cable Inner Main
- A11 Bronze Metal Cable Inner Wire
- A12 White Plastic Adjustment Button Outer Side Main
- A13 Black/White Plastic Adjustment Button Main
- A14 Silver Metal Resistance Mechanism Fixing Wire
- A15 Silver Metal Adjustment Button Fixing Screw (back)
- A16 Silver Plastic Adjustment Button Support Stopper (back)
- A17 Red Plastic Lamp Outer Main
- A18 Transparent Glass Lamp
- A19 Light Brown Ceramic Resistance (back lamp)
- A20 Black Plastic Lamp Outer Frame
- A21 Gold Metal Resistance Mechanism Adjustment Pin
- A22 Gold Metal Resistance Mechanism Upper Main
- A23 Black Plastic Resistance Mechanism Upper Side Main
- A24 White Ceramic Resistance Mechanism Bottom Main
- A25 Gold Metal Resistance Mechanism Screw
- A26 Silver Metal Resistance Mechanism Socket End
- A27 Black Metal Adjustment Pin Screw
- A28 White Ceramic Resistance Bell Upper Main
- A29 Silver Metal Resistance Bell Main
- A30 Silver Metal Resistance Bell Pin
- A31 Bronze Metal Resistance Inner Nail
- A32 Silver Metal Thermostat Main
- A33 Silver Metal Thermostat Wire
- A34 Silver Metal Thermic
- A35 White Plastic Cable End

Test Component Part:

A36	Black Plastic Cable (resistance)
A37	Silver Metal Cable Inner Wire
A38	Ecrú Plastic Cable (thick)
A39	Bronze Metal Cable Inner Wire (thick)
A40	Light Orange Plastic Cable (thin)
A41	Bronze Metal Cable Inner Wire (thin)
A42	Gold Metal Cable End
A43	White Plastic Plug Main
A44	Silver Metal Plug Tip
A45	Silver Metal Plug Inner Main
A46	Black Plastic Plug Inner Main
A47	White Plastic Plug Outer Cable
A48	Brown Plastic Plug Cable
A49	Blue Plastic Plug Cable
A50	Yellow/Green Plastic Plug Cable
A51	Bronze Metal Plug Cable Inner Copper Wire
A52	White Metal Wall Fixing Apparatus
A53	White Plastic Fixing Stand Main
A54	Silver Metal Fixing Screw-1
A55	Silver Metal Fixing Screw-2
A56	White Plastic Screw Dowel
B1	White Metal Outer Main
B2	Silver Metal Side Rivet Screw
B3	Silver Metal Back Fixing Screw
B4	White Metal Back Fixing Stand Main
B5	White Metal Back Fixing Stand Screw
B6	Silver Metal Back Metal Main
B7	Silver Metal Inner Main Folio
B8	White Plastic Inner Main Fiber
B9	Bronze Metal Cable Fixing Screw
B10	Silver Metal Cable Fixing Nut
B11	Silver Metal Inner Main Resistance Folio
B12	Transparent Plastic Resistance Cable
B13	Bronze Metal Resistance Cable Inner Wire
B14	White Textile Resistance Cable Inner Fabric
B15	White Plastic Cable Guard

Test Component Part:

B16	Black Plastic Thermic Cable
B17	Silver Metal Thermic Cable Inner Wire
B18	Silver Metal Thermic
B19	Gold Metal Cable Socket End
B20	White Plastic Plug Main
B21	Silver Metal Plug Tip
B22	Black Plastic Plug Middle Main
B23	Silver Metal Plug Middle Main
B24	White Plug Cable Outer Main
B25	Brown Plastic Plug Cable Inner Main
B26	Silver Plastic Plug Cable Inner Main
B27	Blue Plastic Plug Cable Inner Main
B28	Bronze Metal Cable Inner Copper Wire
B29	Silver Metal Unit Fixing Screw
B30	White Plastic Unit Fixing Dowel

Sample	Group No.	Component Description	Remark
A-B	1	A2 + A3 + A4 + A6 + B1 + B2 + B3 + B4 + B5 + B6	-
A-B	2	A5 + A9 + A12 + B8	-
A-B	3	A7 + A8 + A11 + A14 + A15 + B7 + B9 + B10 + B11 + B13	-
A-B	4	A10 + A50 + A53 + A56 + B14	-
A-B	5	A1 + A13 + A16 + B12 + B15	-
A-B	6	A17 + A20 + B16 + B20	-
A-B	7	A18 + A19 + A24 + A28	-
A-B	8	A21 + A22 + A25 + A26 + B17 + B18 + B19 + B21 + B23	-
A-B	9	A23 + B22 + B24 + B25	-
A-B	10	A27 + A29 + A30 + A31 + A32 + A33 + A34 + B28 + B29	-
A-B	11	A35 + B26 + B27 + B30	-
A-B	12	A36 + A38 + A40 + A43	-
A-B	13	A37 + A39 + A41 + A42 + A44 + A45 + A51 + A52 + A54 + A55	-
A-B	14	A46 + A47 + A48 + A49	-

Remarks:

1. INS = Insufficient sample for testing
2. The coating / printed material is tested together with the base substrate, the test result is the actual concentration from laboratory testing

Appendix
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008

No.	Substance Name	CAS No./ EC No.
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2
15	Triethyl arsenate*	15606-95-8/ 427-700-2

No.	Substance Name	CAS No./ EC No.
2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4
4	Anthracene	120-12-7/ 204-371-1
6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0
8	Cobalt dichloride*	7646-79-9/ 231-589-4
10	Diarsenic trioxide*	1327-53-3/ 215-481-4
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; ; 134237-51-7/-; 134237-52-8/-)
14	Sodium dichromate*	7789-12-0 10588-01-9/ 234-190-3

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010

No.	Substance Name	CAS No./ EC No.
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5
22	Diisobutyl phthalate	84-69-5/ 201-553-2
24	Lead chromate*	7758-97-6/ 231-846-0
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2

No.	Substance Name	CAS No./ EC No.
17	Anthracene oil*	90640-80-5/ 292-602-7
19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9
21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8
23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7
27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010

No.	Substance Name	CAS No./ EC No.
28	Acrylamide	79-06-1/ 201-173-7

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010

No.	Substance Name	CAS No./ EC No.
29	Ammonium dichromate*	7789-09-5/ 232-143-1
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4
33	Potassium dichromate*	7778-50-9/ 231-906-6
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3

No.	Substance Name	CAS No./ EC No.
30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4
32	Potassium chromate*	7789-00-6/ 232-140-5
34	Sodium chromate*	7775-11-3/ 231-889-5
36	Trichloroethylene	79-01-6/ 201-167-4

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010

No.	Substance Name	CAS No./ EC No.
37	2-Ethoxyethanol	110-80-5/ 203-804-1
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1

No.	Substance Name	CAS No./ EC No.
38	2-Methoxyethanol	109-86-4/ 203-713-7
40	Chromium trioxide*	1333-82-0/ 215-607-8
42	Cobalt(II) diacetate*	71-48-7/ 200-755-8
44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011

No.	Substance Name	CAS No./ EC No.
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2
51	Strontium chromate*	7789-06-2/ 232-142-6

No.	Substance Name	CAS No./ EC No.
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1
48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1
50	Hydrazine	7803-57-8 302-01-2/ 206-114-9

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011

No.	Substance Name	CAS No./ EC No.
52	1,2-Dichloroethane	107-06-2/ 203-458-1
54	2-Methoxyaniline	90-04-0/ 201-963-1
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4
60	Calcium arsenate*	7778-44-1/ 231-904-5
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1
64	Lead dipicrate*	6477-64-1/ 229-335-2
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4
68	Phenolphthalein	77-09-8/ 201-004-7
70	Trilead diarsenate*	3687-31-8/ 222-979-5

No.	Substance Name	CAS No./ EC No.
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4/ 202-918-9
55	4-tert-Octylphenol	140-66-9/ 205-426-2
57	Arsenic acid*	7778-39-4/ 231-901-9
59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6
61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2
63	Lead diazide*	13424-46-9/ 236-542-1
65	Lead styphnate*	15245-44-0/ 239-290-0
67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0
69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9/ 234-329-8
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012

No.	Substance Name	CAS No./ EC No.
72	[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
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5
78	Diboron trioxide*	1303-86-2/ 215-125-8
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9/ 219-514-3
84	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

No.	Substance Name	CAS No./ EC No.
73	[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
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2
79	Formamide	75-12-7/ 200-842-0
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012

No.	Substance Name	CAS No./ EC No.
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5
87	1,2-Diethoxyethane	629-14-1/ 211-076-1
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7
91	4,4'-Methylenedi-o-toluidine	838-88-0/ 212-658-8
93	4-Aminoazobenzene	60-09-3/ 200-453-6
95	4-Nonylphenol, branched and linear	-
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4
105	Dinoseb	88-85-7/ 201-861-7
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 238-009-9
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0
115	Lead dinitrate*	10099-74-8/ 233-245-9
117	Lead oxide sulphate*	12036-76-9/ 234-853-7
119	Lead titanium trioxide*	12060-00-3/ 235-038-9
121	Methoxyacetic acid	625-45-6/ 210-894-6
123	N-Methylacetamide	79-16-3/ 201-182-6
125	o-Aminoazotoluene	97-56-3/ 202-591-2
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2

No.	Substance Name	CAS No./ EC No.
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2
88	1-Bromopropane	106-94-5/ 203-445-0
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-
92	4,4'-Oxydianiline	101-80-4/ 202-977-0
94	4-Methyl-m-phenylenediamine	95-80-7/ 202-453-1
96	6-Methoxy-m-toluidine	120-71-8/ 204-419-1
98	Biphenyl-4-ylamine	92-67-1/ 202-177-1
100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8
102	Diethyl sulphate	64-67-5/ 200-589-6
104	Dimethyl sulphate	77-78-1/ 201-058-1
106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8
108	Furan	110-00-9/ 203-727-3
110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1
114	Lead cyanamidate*	20837-86-9/ 244-073-9
116	Lead monoxide*	1317-36-8/ 215-267-0
118	Lead tetroxide*	1314-41-6/ 215-235-6
120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4
122	N,N-Dimethylformamide	68-12-2/ 200-679-5
124	N-Pentyl-isopentylphthalate	776297-69-9 /-
126	o-Toluidine	95-53-4/ 202-429-0
128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7

No.	Substance Name	CAS No./ EC No.
129	Propylene oxide	75-56-9/ 200-879-2
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6

No.	Substance Name	CAS No./ EC No.
130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1
132	Silicic acid, lead salt*	11120-22-2/ 234-363-3
134	Tetraethyllead*	78-00-2/ 201-075-4
136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2
138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013

No.	Substance Name	CAS No./ EC No.
139	4-Nonylphenol, branched and linear, ethoxylated	-
141	Cadmium	7440-43-9/ 231-152-8
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9

No.	Substance Name	CAS No./ EC No.
140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4
142	Cadmium oxide*	1306-19-0/ 215-146-2
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013

No.	Substance Name	CAS No./ EC No.
145	Cadmium sulphide*	1306-23-6/ 215-147-8
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
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9
151	Trixylyl phosphate	25155-23-1/ 246-677-8

No.	Substance Name	CAS No./ EC No.
146	Diethyl phthalate	84-75-3/ 201-559-5
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
150	Lead di(acetate)*	301-04-2/ 206-104-4

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014

No.	Substance Name	CAS No./ EC No.
152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4/ 271-093-5
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390-0; 239-172-9

No.	Substance Name	CAS No./ EC No.
153	Cadmium chloride*	10108-64-2/ 233-296-7
155	Sodium peroxometaborate*	7632-04-4/ 231-556-4

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014

No.	Substance Name	CAS No./ EC No.	No.	Substance Name	CAS No./ EC No.
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	157	2-(2H-benzotriazol-2-yl)-4,6-dite rtpentylphenol (UV-328)	25973-55-1 / 247-384-8
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate e and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy] -2-oxoethyl]thio]-4-octyl-7-oxo-8- oxa-3,5-dithia-4-stannatetradeca noate (reaction mass of DOTE and MOTE)	-
160	Cadmium fluoride*	7790-79-6 / 232-222-0	161	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun15, 2015

No.	Substance Name	CAS No./ EC No.	No.	Substance Name	CAS No./ EC No.
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	163	5-sec-butyl-2-(2,4-dimethylcyclo hex-3-en-1-yl)-5-methyl-1,3-diox ane [1], 5-sec-butyl-2-(4,6-dimethylcyclo hex-3-en-1-yl)-5-methyl-1,3-diox ane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,

No.	Substance Name	CAS No./ EC No.	No.	Substance Name	CAS No./ EC No.
164	1,3-propanesultone	1120-71-4 / 214-317-9	165	2,4-di-tert-butyl-6-(5-chlorobenz otriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl) -6(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	167	Nitrobenzene	98-95-3 / 202-716-0
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-hep tadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3			

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016

No.	Substance Name	CAS No./ EC No.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017

No.	Substance Name	CAS No./ EC No.
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salt	335-76-2; 3830-45-3; 3108-42-7/ 206-400-3; -; 221-470-5

No.	Substance Name	CAS No./ EC No.
171	4-Heptylphenol, branched and linear	-
173	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201-280-9

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017

No.	Substance Name	CAS No./ EC No.
174	Perfluorohexane-1-sulphonic acid and its salts	-

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2018

No.	Substance Name	CAS No./ EC No.
175	Benz[a]anthracene	56-55-3; 1718-53-2/ 200-280-6
177	Cadmium hydroxide*	21041-95-2/ 244-168-5
179	Chrysene	218-01-9; 1719-03-5/ 205-923-4
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]	-

No.	Substance Name	CAS No./ EC No.
176	Cadmium carbonate*	513-78-0/ 208-168-9
178	Cadmium nitrate*	10022-68-1; 10325-94-7/ 233-710-6
180	Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018

No.	Substance Name	CAS No./ EC No.
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7 / 209-008-0
184	Decamethylcyclotetrasiloxane (D5)	541-02-6 / 208-764-9
186	Disodium octaborate*	12008-41-2 / 234-541-0
188	Ethylenediamine (EDA)	107-15-3 / 203-468-6
190	Octamethylcyclotetrasiloxane (D4)	556-67-2 / 209-136-7

No.	Substance Name	CAS No./ EC No.
183	Benzo[ghi]perylene	191-24-2 / 205-883-8
185	Dicyclohexyl phthalate (DCHP)	84-61-7 / 201-545-9
187	Dodecamethylcyclotetrasiloxane (D6)	540-97-6 / 208-762-8
189	Lead	7439-92-1 / 231-100-4
191	Terphenyl, hydrogenated	61788-32-7 / 262-967-7

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2019

No.	Substance Name	CAS No./ EC No.
192	2,2-Bis(4'-hydroxyphenyl)-4-methylp entane	6807-17-6 / 401-720-1
194	Fluoranthene	206-44-0 / 205-912-4
196	Pyrene	129-00-0 / 204-927-3

No.	Substance Name	CAS No./ EC No.
193	Benzo[k]fluoranthene	207-08-9 / 205-916-6
195	Phenanthrene	85-01-8 / 201-581-5
197	Undecafluorohexanoic acid and its ammonium salt	307-24-4; 21615-47-4 / 206-196-6; 244-479-6

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 16, 2019

No.	Substance Name	CAS No./ EC No.
198	2,3,3,3-Tetrafluoro-2-(heptafluoropro poxy)propionic acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	-
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-

No.	Substance Name	CAS No./ EC No.
199	2-Methoxyethyl acetate	110-49-6 / 203-772-9
201	4-tert-butylphenol	98-54-4 / 202-679-0

Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 16, 2020

No.	Substance Name	CAS No./ EC No.
202	2-benzyl-2-dimethylamino-4'-morpho linobutyrophenone	404-360-3 / 119313-12-1
204	Diisohexyl phthalate	276-090-2 / 71850-09-4

No.	Substance Name	CAS No./ EC No.
203	2-methyl-1-(4-methylthiophenyl) -2-morpholinopropan-1-one	400-600-6 / 71868-10-5
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-

TEST REPORT

Report No TR1722563

Date:22 April 2020 Page 15 of 34

Test Method :

SGS In-House Test Method RSTS-CHEM-801-3 – Analysis by ICP-OES/ICP-MS & GC-MS & UV-VIS Spectrophotometer & HPLC-DAD & HPLC-MS & Colorimetric Method

Test Result (Per individual component) :

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A5 + A9 + A12 + B8
30	Boric acid*	10043-35-3/ 233-139-2; 1113-50-1/ 234-343-4	1	0.22%
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4		B: 0.18%
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3		B: 0.18%
186	Disodium octaborate*	12008-41-2 / 234-541-0		0.15%

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A10 + A50 + A53 + A56 + B14
30	Boric acid*	10043-35-3/ 233-139-2; 1113-50-1/ 234-343-4	1	0.19%
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4		B: 0.15%
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3		B: 0.15%
186	Disodium octaborate*	12008-41-2 / 234-541-0		0.12%

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A21 + A22 + A25 + A26 + B17 + B18 + B19 + B21 + B23
189	Lead	7439-92-1 / 231-100-4	1	2.61%

TEST REPORT

Report No TR1722563

Date:22 April 2020 Page 16 of 34

Test Method :

SGS In-House Test Method RSTS-CHEM-801-3 – Analysis by ICP-OES/ICP-MS & GC-MS & UV-VIS Spectrophotometer & HPLC-DAD & HPLC-MS & Colorimetric Method

Test Result (Per individual component) :

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A37 + A39 + A41 + A42 + A44 + A45 + A51 + A52 + A54 + A55
189	Lead	7439-92-1 / 231-100-4	1	1.75%

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A2 + A3 + A4 + A6 + B1 + B2 + B3 + B4 + B5 + B6
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A7 + A8 + A11 + A14 + A15 + B7 + B9 + B10 + B11 + B13
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A1 + A13 + A16 + B12 + B15
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A17 + A20 + B16 + B20
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A18 + A19 + A24 + A28
-	All SVHC	-	1	ND

Test Method :

SGS In-House Test Method RSTS-CHEM-801-3 – Analysis by ICP-OES/ICP-MS & GC-MS & UV-VIS Spectrophotometer & HPLC-DAD & HPLC-MS & Colorimetric Method

Test Result (Per individual component) :

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A23 + B22 + B24 + B25
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A27 + A29 + A30 + A31 + A32 + A33 + A34 + B28 + B29
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A35 + B26 + B27 + B30
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A36 + A38 + A40 + A43
-	All SVHC	-	1	ND

No.	Substance Name	CAS No./ EC No.	Group No	Concentration (%)
				A46 + A47 + A48 + A49
-	All SVHC	-	1	ND

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material = 0.1%
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
NA^ = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be excluded entirely. It may be assumed that the detected element(s) have a non-SVHC source.
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario.

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.
3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
4. Test result that shown as per test group is the actual concentration from laboratory testing. The test result is calculated by minimum sample weight. Confirmation testing is recommended as to understand the exact content of SVHC in each individual component.

A



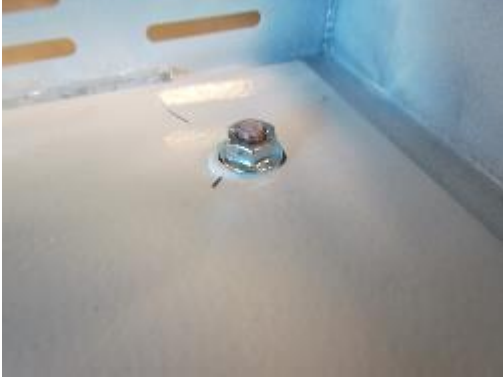
A1



A2



A3



A4



A5



A6



A7



A8



A9



A10



A11



A12



A13



A14



A15



A16



A17



A18



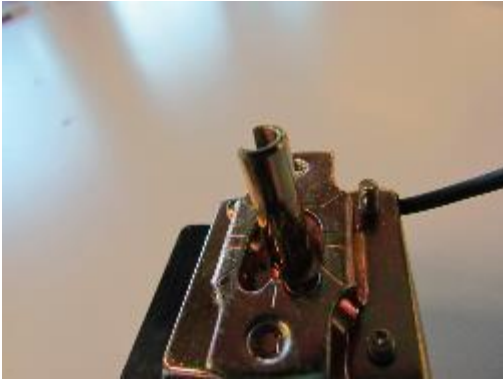
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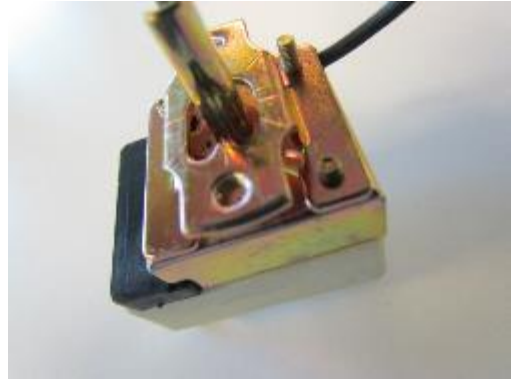
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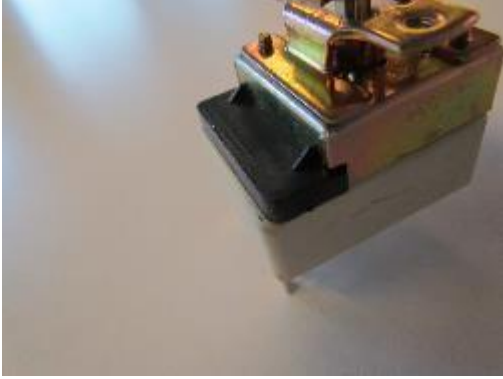
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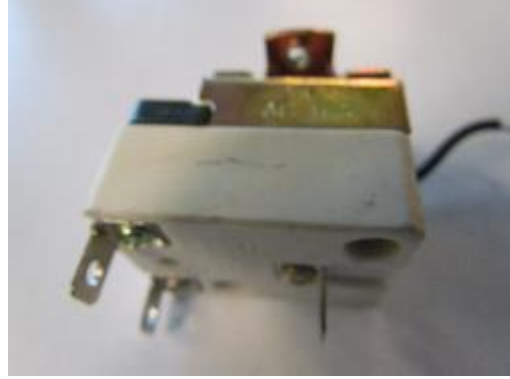
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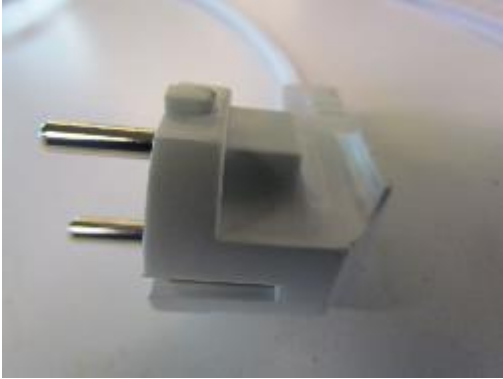
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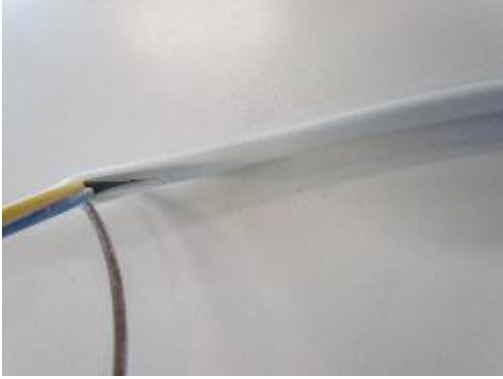
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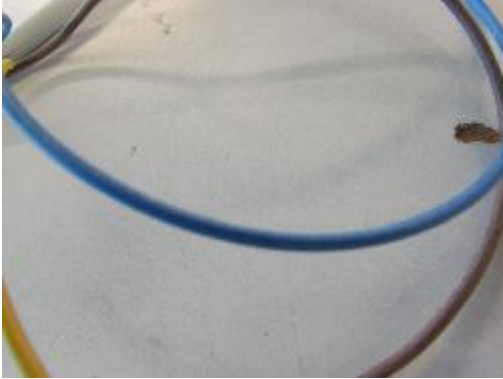
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A50



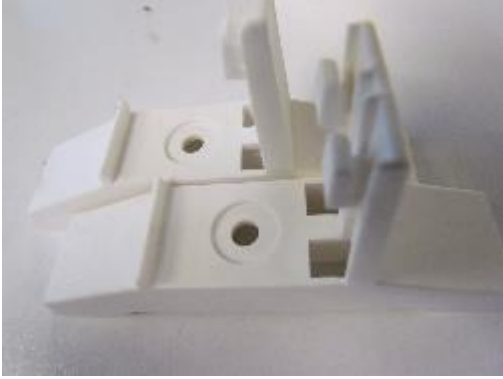
A51



A52



A53



A54



A55



A56



B



B1



B2



B3



B4



B5



B6



B7



B8



B9



B10



B11



B12



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B14



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B24



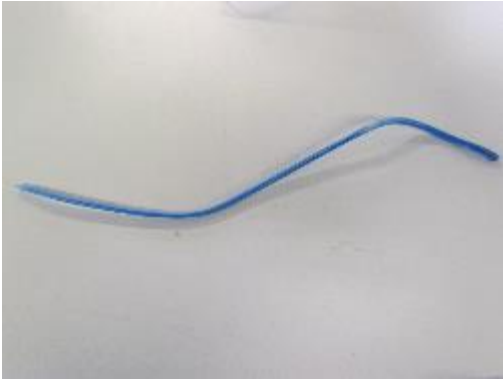
B25



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B27



B28



B29



B30



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End of Test Report

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