

HONGDUK INDUSTRIAL CO., LTD.

51 Jangheung-ro 39beon-gil, Nam-gu
Pohang-si, Gyeongbuk
Korea



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

SGS File No.	: AYGU26-00727
Product Name	: Piano Wire
Item No./Part No.	: N/A
Client Reference Data	: SWP-A,B / PW-1,2 / EN10270-1 DM,DH / SWRS82A
Received Date	: 2026. 01. 02
Test Period	: 2026. 01. 02 to 2026. 01. 12
Test Requested	: As requested by client, SVHC screening is performed according to: <ul style="list-style-type: none">- Two hundred and fifty-one (251) substances in the Candidate List of Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on November 5, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.- Three (3) substances under the SVHC process listed in the Registry of SVHC Intentions until Outcome (ROI) published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.
Report Comments	: By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.
Test Method	: Please refer to next page(s).
Test Result(s) Summary	: Please refer to next page(s). According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the articles of the submitted sample.

SGS Korea Co., Ltd.
/ Busan Branch



Taehee Kang / Technical Manager

The test results of this test report are only limited to samples and sample names provided by the client and do not guarantee the quality of all products of the client. This test report shall not be used for public relation, advertisement, lawsuit and shall not be used by excerpts from it. This test report can be checked through the <http://rohs.kr.sgs.com/checkreport/main> This test report is not related to KS Q ISO/IEC 17025 and Korea Laboratory Accreditation Scheme.

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Test Method :

SGS In-House method - Analyzed by ICP-OES, PLM, UV/VIS, LC/MS, GC/MS and colorimetric method

Remarks :

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)

https://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p_p_id=substancetypelist_WAR_substanceportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=2&p_p_col_count=4&substancetypelis

(Proposals to identify SVHC consultations)

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.

4. If a SVHC is found over 0.1% (w/w), 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.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
1	1,2,3-trichloropropane (1,2,3-TCP)	96-18-4	202-486-1	0.05	N.D.
2	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.05	N.D.
3	1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.05	N.D.
4	1,2-Dichloroethane	107-06-2	203-458-1	0.05	N.D.
5	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.05	N.D.
6	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.05	N.D.
7	2,4-Dinitrotoluene	121-14-2	204-450-0	0.05	N.D.
8	2-Ethoxyethanol	110-80-5	203-804-1	0.05	N.D.
9	2-ethoxyethyl acetate	111-15-9	203-839-2	0.05	N.D.
10	2-Methoxyaniline / o-anisidine	90-04-0	201-963-1	0.05	N.D.
11	2-Methoxyethanol	109-86-4	203-713-7	0.05	N.D.
12	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.05	N.D.
13	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.05	N.D.
14	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene)	81-15-2	201-329-4	0.05	N.D.
15	Acids generated from chromium trioxide and their oligomers Chromic acid & Dichromic acid, Oligomers of chromic acid and dichromic acid*	-	-	0.005	N.D.
16	Acrylamide	79-06-1	201-173-7	0.05	N.D.
17	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.05	N.D.
18	Aluminosilicate Refractory Ceramic Fibres* (RCF)	-	-	0.005	N.D.
19	Ammonium dichromate*	7789-09-5	232-143-1	0.005	N.D.
20	Anthracene	120-12-7	204-371-1	0.05	N.D.

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No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
21	Anthracene oil*	90640-80-5	292-602-7	0.05	N.D.
22	Anthracene oil, anthracene paste*	90640-81-6	292-603-2	0.05	N.D.
23	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	0.05	N.D.
24	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4	295-278-5	0.05	N.D.
25	Anthracene oil, anthracene-low*	90640-82-7	292-604-8	0.05	N.D.
26	Arsenic acid*	7778-39-4	231-901-9	0.005	N.D.
27	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.05	N.D.
28	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	0.05	N.D.
29	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.05	N.D.
30	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.05	N.D.
31	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.05	N.D.
32	Boric acid*	-	-	0.005	N.D.
33	Calcium arsenate*	7778-44-1	231-904-5	0.005	N.D.
34	Chromium trioxide*	1333-82-0	215-607-8	0.005	N.D.
35	Cobalt dichloride*	7646-79-9	231-589-4	0.005	N.D.
36	Cobalt(II) carbonate*	513-79-1	208-169-4	0.005	N.D.
37	Cobalt(II) diacetate*	71-48-7	200-755-8	0.005	N.D.
38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.005	N.D.
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.005	N.D.
40	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.005	N.D.
41	Diarsenic trioxide*	1327-53-3	215-481-4	0.005	N.D.
42	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.05	N.D.

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43	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.005	N.D.
44	Di-isobutyl phthalate(DIBP)	84-69-5	201-553-2	0.05	N.D.
45	Disodium tetraborate, anhydrous*	1330-43-4,1303-96-4,12179-04-3	215-540-4	0.005	N.D.
46	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.05	N.D.
47	Hexabromocyclododecane (HBCDD)	-	-	0.05	N.D.
48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.05	N.D.
49	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.005	N.D.
50	Lead chromate*	7758-97-6	231-846-0	0.005	N.D.
51	Lead diazide*	13424-46-9	236-542-1	0.005	N.D.
52	Lead dipicrate*	6477-64-1	229-335-2	0.005	N.D.
53	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.005	N.D.
54	Lead styphnate*	15245-44-0	239-290-2	0.005	N.D.
55	Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2	215-693-7	0.005	N.D.
56	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.05	N.D.
57	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.005	N.D.
58	Phenolphthalein	77-09-8	201-004-7	0.05	N.D.
59	Coal tar pitch, high temperature*	65996-93-2	266-028-2	0.05	N.D.
60	Potassium chromate*	7789-00-6	232-140-5	0.005	N.D.
61	Potassium dichromate*	7778-50-9	231-906-6	0.005	N.D.
62	Potassium hydroxyocta-oxodizincatedichromate*	11103-86-9	234-329-8	0.005	N.D.
63	Sodium chromate*	7775-11-3	231-889-5	0.005	N.D.

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No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
64	Sodium dichromate*(Sodium dichromate, dehydrate)	7789-12-0, 10588-01-9	234-190-3	0.005	N.D.
65	Strontium chromate*	7789-06-2	232-142-6	0.005	N.D.
66	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.005	N.D.
67	Trichloroethylene	79-01-6	201-167-4	0.05	N.D.
68	Triethyl arsenate*	15606-95-8	427-700-2	0.005	N.D.
69	Trilead diarsenate*	3687-31-8	222-979-5	0.005	N.D.
70	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.05	N.D.
71	Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF)*	650-017-00-8 (Index no.)	-	0.005	N.D.
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	0.05	N.D.
73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dime thylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.05	N.D.
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.05	N.D.
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.05	N.D.
76	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.05	N.D.
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.05	N.D.
78	Diboron trioxide*	1303-86-2	215-125-8	0.005	N.D.
79	Formamide	75-12-7	200-842-0	0.05	N.D.
80	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.005	N.D.

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No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.05	N.D.
82	TGIC(1,3,5-tris (oxiranyl methyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.05	N.D.
83	α,α -Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.05	N.D.
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	0.05	N.D.
85	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	69011-06-9	273-688-5	0.005	N.D.
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05	N.D.
87	1,2-Diethoxyethane	629-14-1	211-076-1	0.05	N.D.
88	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05	N.D.
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05	N.D.
90	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.05	N.D.
91	4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	0.05	N.D.
92	4,4'-oxydianiline and its salts	-	-	0.05	N.D.
93	4-Aminoazobenzene	60-09-3	200-453-6	0.05	N.D.
94	4-Methyl-m-phenylenediamine	95-80-7	202-453-1	0.05	N.D.
95	4-Nonylphenol, branched and linear (4-NP)	-	-	0.05	N.D.
96	6-Methoxy-m-toluidine	120-71-8	204-419-1	0.05	N.D.
97	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.005	N.D.
98	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05	N.D.
100	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05	N.D.
101	Dibutyltin dichloride (DBT)	683-18-1	211-670-0	0.05	N.D.
102	Diethyl sulphate (DES)	64-67-5	200-589-6	0.05	N.D.
103	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05	N.D.
104	Dimethyl sulphate (DMS)	77-78-1	201-058-1	0.05	N.D.
105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05	N.D.
106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.005	N.D.
107	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.005	N.D.
108	Furan	110-00-9	203-727-3	0.05	N.D.
109	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05	N.D.
110	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05	N.D.
111	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	-	-	0.05	N.D.
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride (MHHPA)	-	-	0.05	N.D.
113	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.005	N.D.
114	Lead cyanamidate*	20837-86-9	244-073-9	0.005	N.D.
115	Lead dinitrate*	10099-74-8	233-245-9	0.005	N.D.
116	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.005	N.D.
117	Lead oxide sulfate (basic lead sulfate)*	12036-76-9	234-853-7	0.005	N.D.
118	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.005	N.D.

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No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
119	Lead titanium trioxide*	12060-00-3	235-038-9	0.005	N.D.
120	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.005	N.D.
121	Methoxyacetic acid	625-45-6	210-894-6	0.05	N.D.
122	N,N-dimethylformamide (DMFA)	68-12-2	200-679-5	0.05	N.D.
123	N-methylacetamide	79-16-3	201-182-6	0.05	N.D.
124	N-pentyl-isopentylphthalate	776297-69-9	-	0.05	N.D.
125	o-Aminoazotoluene	97-56-3	202-591-2	0.05	N.D.
126	o-Toluidine	95-53-4	202-429-0	0.05	N.D.
127	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05	N.D.
128	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.005	N.D.
129	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05	N.D.
130	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.005	N.D.
131	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.005	N.D.
132	Silicic acid, lead salt*	11120-22-2	234-363-3	0.005	N.D.
133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.005	N.D.
134	Tetraethyllead*	78-00-2	201-075-4	0.005	N.D.
135	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.005	N.D.
136	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05	N.D.
137	Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	1319-46-6	215-290-6	0.005	N.D.
138	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.005	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
139	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]	-	799-990-1	0.05	N.D.
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.05	N.D.
141	Cadmium	7440-43-9	231-152-8	0.005	N.D.
142	Cadmium oxide*	1306-19-0	215-146-2	0.005	N.D.
143	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.05	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.05	N.D.
145	Dihexyl phthalate (DIHP)	84-75-3	201-559-5	0.05	N.D.
146	Trixylyl phosphate	25155-23-1	246-677-8	0.05	N.D.
147	Imidazolidine-2-thione; 2-imidazoline-2-thiol (Ethylene thiourea)	96-45-7	202-506-9	0.05	N.D.
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	0.05	N.D.
149	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	0.05	N.D.
150	Cadmium sulphide*	1306-23-6	215-147-8	0.005	N.D.
151	Lead di(acetate)	301-04-2	206-104-4	0.005	N.D.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	68515-50-4	271-093-5	0.05	N.D.
153	Cadmium chloride*	10108-64-2	233-296-7	0.005	N.D.
154	Sodium perborate*; perboric acid, sodium salt*	-	-	0.005	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
155	Sodium peroxometaborate*	7632-04-4	231-556-4	0.005	N.D.
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05	N.D.
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.05	N.D.
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stanna tetradecanoate (DOTE)	15571-58-1	239-622-4	0.05	N.D.
159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stanna tetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8- oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	0.05	N.D.
160	Cadmium fluoride*	7790-79-6	232-222-0	0.005	N.D.
161	Cadmium sulphate*	10124-36-4, 31119-53-6	233-331-6	0.005	N.D.
162	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]	-	-	0.05	N.D.
163	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)	-	-	0.05	N.D.
164	1,3-propanesultone	1120-71-4	214-317-9	0.05	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05	N.D.
167	Nitrobenzene	98-95-3	202-716-0	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorono nanoic acid and its sodium and ammonium salts	-	-	0.05	N.D.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.05	N.D.
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.05	N.D.
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]	-	-	0.05	N.D.
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	0.05	N.D.
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.05	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts	355-46-4	206-587-1	0.05	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropenta cyclo[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]	-	-	0.05	N.D.
176	Benz[a]anthracene	56-55-3	200-280-6	0.05	N.D.
177	Cadmium nitrate*	10325-94-7	233-710-6	0.005	N.D.
178	Cadmium carbonate*	513-78-0	208-168-9	0.005	N.D.
179	Cadmium hydroxide*	21041-95-2	244-168-5	0.005	N.D.
180	Chrysene	218-01-9	205-923-4	0.05	N.D.
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]	-	-	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	209-008-0	0.05	N.D.
183	Benzo[ghi]perylene (BgP)	191-24-2	205-883-8	0.05	N.D.
184	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.05	N.D.
185	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.05	N.D.
186	Disodium Octaborate*	12008-41-2	234-541-0	0.005	N.D.
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.05	N.D.
188	Ethylenediamine	107-15-3	203-468-6	0.05	N.D.
189	Lead	7439-92-1	231-100-4	0.005	N.D.
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.05	N.D.
191	Terphenyl hydrogenated	61788-32-7	262-967-7	0.05	N.D.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.05	N.D.
193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.05	N.D.
194	Fluoranthene	206-44-0	205-912-4	0.05	N.D.
195	Phenanthrene	85-01-8	201-581-5	0.05	N.D.
196	Pyrene	129-00-0	204-927-3	0.05	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	0.05	N.D.
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.05	N.D.
199	2-methoxyethyl acetate	110-49-6	203-772-9	0.05	N.D.
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	701-028-2	0.05	N.D.
201	4-tert-Butylphenol	98-54-4	202-679-0	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophen one	119313-12-1	404-360-3	0.05	N.D.
203	2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.05	N.D.
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.05	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.05	N.D.
206	1-vinylimidazole	1072-63-5	214-012-0	0.05	N.D.
207	2-methylimidazole	693-98-1	211-765-7	0.05	N.D.
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.05	N.D.
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	0.05	N.D.
210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.05	N.D.
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.05	N.D.
212	1,4-dioxane	123-91-1	204-661-8	0.05	N.D.
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	-	-	0.05	N.D.
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.05	N.D.
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	201-025-1	0.05	N.D.
216	Glutaral	111-30-8	203-856-5	0.05	N.D.
217	Medium-chain chlorinated paraffins (MCCP)	-	-	0.05	N.D.
218	Orthoboric acid, sodium salt*	-	-	0.005	N.D.

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No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	0.05	N.D.
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.05	N.D.
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	204-327-1	0.05	N.D.
222	S-(Tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate*	255881-94-8	401-850-9	0.05	N.D.
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.05	N.D.
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.05	N.D.
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1	253-692-3	0.05	N.D.
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (Tetrabromobis-phenol- A- (TBBPA))	79-94-7	201-236-9	0.05	N.D.
227	4,4'-sulphonyldiphenol (Bisphenol S (BPS))	80-09-1	201-250-5	0.05	N.D.
228	Barium diboron tetraoxide*	13701-59-2	237-222-4	0.005	N.D.
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.05	N.D.
230	Isobutyl 4-hydroxybenzoate (Isobutylparaben (IBP))	4247-02-3	224-208-8	0.05	N.D.
231	Melamine (1,3,5-triazine-2,4,6-triamine)	108-78-1	203-615-4	0.05	N.D.
232	Perfluoroheptanoic acid and its salts	-	-	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine (FC-770)*	-	473-390-7	0.05	N.D.
234	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.05	N.D.
235	Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	278-355-8	0.05	N.D.
236	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.05	N.D.
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	221-573-5	0.05	N.D.
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.05	N.D.
239	Bumetizole	3896-11-5	223-445-4	0.05	N.D.
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	0.05	N.D.
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	201-279-3	0.05	N.D.
242	Triphenyl phosphate(TPP)	115-86-6	204-112-2	0.05	N.D.
243	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	421-820-9	0.05	N.D.
244	Perfluamine	338-83-0	206-420-2	0.05	N.D.
245	Octamethyltrisiloxane	107-51-7	203-497-4	0.05	N.D.
246	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	701-118-1	0.05	N.D.
247	O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	0.05	N.D.
248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	241-867-7	0.05	N.D.
249	Decamethyltetrasiloxane	141-62-8	205-491-7	0.05	N.D.
250	Reactive Brown 51	-	466-490-7	0.05	N.D.

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Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit(%)	Concentration (%)
251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	284-366-9	0.05	N.D.
252	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts (BPAF)	-	-	0.05	N.D.
253	4,4'-methylenediphenol (BPF)	620-92-8	210-658-2	0.05	N.D.
254	n-Hexane	110-54-3	203-777-6	0.05	N.D.

Note :

1. RL = Reporting Limit, 0.05% (w/w) = 500 ppm = 500 mg/kg, 0.005% (w/w) = 50 ppm = 50 mg/kg

2. N.D. = Not detected (< RL)

N.A. = Not applicable for respective material type.

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 exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

3. *.The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario.

For detail information, please refer to the SGS REACH website:

www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

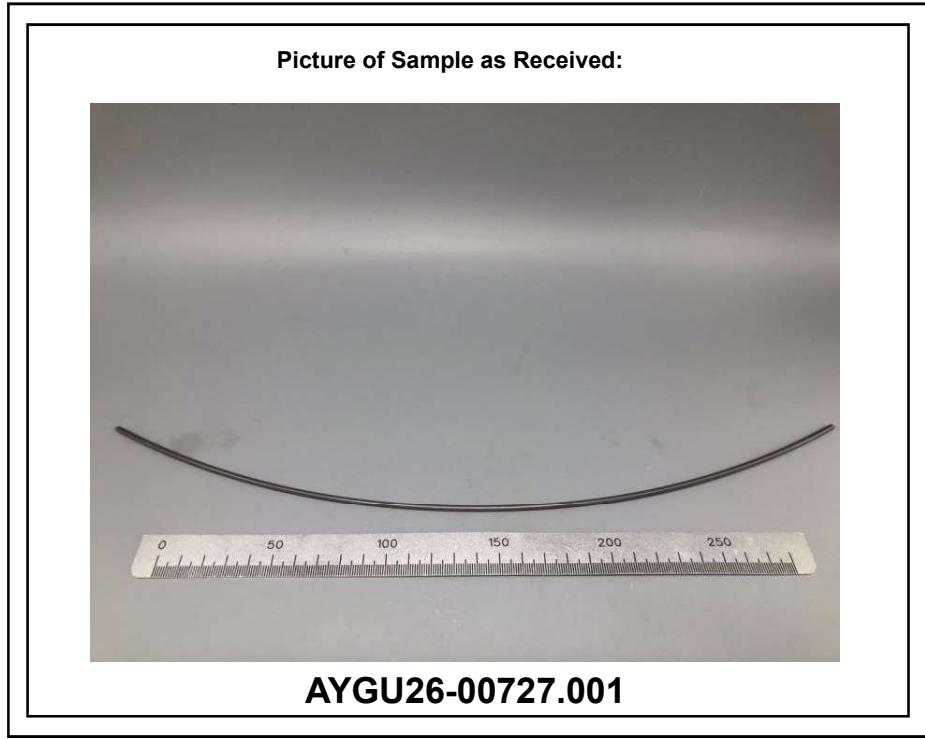
The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium(VI), silicon, aluminum, zirconium, boron, and potassium respectively), except molybdenum RL=0.0005%

4. **.b-TGIC is one of the isomers for TGIC compounds and hence, tested together. The reported test result is based the proposed ratio as according to ECHA dossier.

5. ***.The sample was diluted with solvent because of matrix effect, so there could be slight increase in MDL and it may have an effect on RL.

6. The results shown in this test report refer only to the sample(s) tested unless otherwise stated.



*** End of Report ***

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