Test Report

Date : 2025-03-04
No. : ST25020113

Applicant	:	Ruian Fangyuan Polyurethane Company Limited No. Three East Road, No. 358,High-tech Park, Nan Bin Street, Ruian
Manufacturer	:	Ruian Fangyuan Polyurethane Company Limited No. Three East Road, No. 358,High-tech Park, Nan Bin Street, Ruian
Description of Sample(s)	:	One (1) group of submitted sample(s) said to be White Polyurethane Foam Sponge
Date Sample(s) Received	:	2025-02-26
Date Tested	:	2025-02-26 to 2025-03-04
Conclusions	:	See details in Results

Result Summary:

No.	Test Requested	Conclusion	Remark
1	Semi-quantitative testing of two hundred and forty-seven (247) substances in the candidate list of substances of very high concern (SVHC) for authorization published by European chemicals agency (ECHA) on November 07, 2024 regarding to Regulation (EC) No 1907/2006 concerning the REACH	No SVHCs with concentration > 0.1% was found / SVHCs with concentration > 0.1% was found	-

Shishunjiao, Sini
Authorized Signatory

Note: When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

TEST RESULT(S):

Semi-quantitative testing of two hundred and forty-seven (247) substances in the candidate list of substances of very high concern (svhc) for authorization published by european chemicals agency (echa) on november 07, 2024 regarding to regulation (ec) no 1907/2006 concerning the reach

Method Used: In-House method, analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer (ICP-AES), UV-VIS, HPLC and Gas Chromatography with Mass Selective Detector

Test Item(s)	Result(s)			
	No.	Detected Analyte(s)	Conc.	Unit
001	-	ND	ND	%

Note(s):
- ND = Not Detected
- Results reported in percentage%(w/w)
- Detection limit: please refer to Annex
- Conc. = Concentration

Remark(s):
- 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 and /or investigation from the laboratory (for organic substance).
- Please notice that the identified SVHC substance(s) is based on the calculation from the result of selected ions. The concentration that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of SVHC substance(s).

ANNEX

Semi-quantitative testing of two hundred and forty-two (242) substances in the candidate list of substances of very high concern (SVHC) for authorization published by European chemicals agency (ECHA) and four substances were proposed to identify as SVHC

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
1	Anthracene	120-12-7	0.005	PBT
2	Benzyl butyl phthalate (BBP)	85-68-7	0.005	Toxic for Reproduction; Endocrine disrupting properties
3	Dibutyl phthalate (DBP)	84-74-2	0.005	Toxic for Reproduction; Endocrine disrupting properties

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
4	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	Toxic for Reproduction; Endocrine disrupting properties
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4/ 3194-55-6 (134237-51-7,134237-50-6,134237-52-8)	0.005	PBT
6	4,4'-Diaminodiphenylmethane	101-77-9	0.005	Carcinogenic
7	Alkanes, C10-13,chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.01	PBT ; vPvB
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.005	vPvB
9	Triethyl arsenate*	15606-95-8	0.01	Carcinogenic
10	Bis(tributyltin)oxide (TBTO) *	56-35-9	0.005	PBT
11	Cobalt dichloride*	7646-79-9	0.01	Carcinogenic; Toxic for reproduction
12	Diarsenic pentaoxide*	1303-28-2	0.01	Carcinogenic
13	Diarsenic trioxide*	1327-53-3	0.01	Carcinogenic
14	Sodium dichromate*	7789-12-0, 10588-01-9	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction
15	Lead hydrogen arsenate*	7784-40-9	0.01	Carcinogenic;Toxic for Reproduction
16	2,4-dinitrotoluene	121-14-2	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	0.01	Carcinogenic; PBT; vPvB
18	Anthracene oil,anthracene paste	90640-81-6	0.01	Carcinogenic; Mutagenic; PBT; vPvB
19	Anthracene oil,anthracene paste,anthracene fraction	91995-15-2	0.01	Carcinogenic; Mutagenic; PBT; vPvB
20	Anthracene oil,anthracene paste,distn. Lights	91995-17-4	0.01	Carcinogenic; Mutagenic; PBT; vPvB
21	Anthracene oil, anthracene-low	90640-82-7	0.01	Carcinogenic; Mutagenic; PBT; vPvB
22	Di isobutyl phthalate(DIBP)	84-69-5	0.005	Toxic for Reproduction; Endocrine disrupting properties
23	Lead chromate*	7758-97-6	0.01	Carcinogenic; Toxic for Reproduction

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.01	Carcinogenic; Toxic for Reproduction
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.01	Carcinogenic; Toxic for Reproduction
26	Pitch, coal tar, high temp.	65996-93-2	0.01	Carcinogenic; PBT;vPvB
27	Tris(2-chloroethyl) phosphate	115-96-8	0.005	Toxic for Reproduction
28	Acrylamide	79-06-1	0.005	Carcinogenic; Mutagenic
29	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.01	Toxic for Reproduction
30	Potassium chromate*	7789-00-6	0.01	Carcinogenic; Mutagenic
31	Potassium dichromate*	7778-50-9	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction
32	Sodium chromate*	7775-11-3	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction
33	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.01	Toxic for Reproduction
34	Trichloroethylene	79-01-6	0.005	Carcinogenic
35	Boric acid*	10043-35-3/11113-50-1	0.01	Toxic for Reproduction
36	Ammonium dichromate*	7789-09-5	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction
37	2-Methoxyethanol	109-86-4	0.005	Toxic for Reproduction
38	2-Ethoxyethanol	110-80-5	0.005	Toxic for Reproduction
39	Chromic acid*	7738-94-5, 13530-68-2	0.01	Carcinogenic
40	Cobalt (II) diacetate*	71-48-7	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt (II) sulphate*	10124-43-3	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt (II) dinitrate*	10141-05-6	0.01	Carcinogenic; Toxic for reproduction
43	Cobalt (II) carbonate*	513-79-1	0.01	Carcinogenic; Toxic for reproduction
44	Chromium trioxide*	1333-82-0	0.01	Carcinogenic ; Mutagenic
45	2-ethoxyethyl acetate	111-15-9	0.005	Toxic for Reproduction
46	Strontium chromate*	7789-06-2	0.01	Carcinogenic

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.005	Toxic for Reproduction
48	Hydrazine	7803-57-8 302-01-2	0.005	Carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	0.005	Toxic for Reproduction
50	1,2,3-trichloropropane	96-18-4	0.005	Carcinogenic; Toxic for Reproduction
51	1,2-Benzenedicarboxylicacid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.005	Toxic for Reproduction
52	Dichromium tris(chromate)*	24613-89-6	0.01	Carcinogenic
53	Potassium hydroxyoctaoxodizincate di-chromate*	11103-86-9	0.01	Carcinogenic
54	Pentazinc chromate octahydroxide*	49663-84-5	0.01	Carcinogenic
55	Aluminosilicate Refractory Ceramic Fibres (RCF)*	-	0.01	Carcinogenic
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*	-	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	0.005	Toxic for Reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl) phenol,	140-66-9	0.005	Endocrine disrupting properties
61	1,2-Dichloroethane	107-06-2	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	0.005	Toxic for Reproduction
63	Arsenic acid*	7778-39-4	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	0.01	Carcinogenic Toxic for Reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	0.005	Toxic for Reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.005	Carcinogenic
68	Phenolphthalein	77-09-8	0.005	Carcinogenic
69	Lead azide; Lead diazide*	13424-46-9	0.01	Toxic for Reproduction

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
70	Lead styphnate*	15245-44-0	0.01	Toxic for Reproduction
71	Lead dipicrate*	6477-64-1	0.01	Toxic for Reproduction
72	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0.01	Carcinogenic
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline	101-61-1	0.005	Carcinogenic
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.005	Mutagenic
75	Diboron trioxide*	1303-86-2	0.01	Toxic for Reproduction
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.005	Toxic for Reproduction
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	0.005	Carcinogenic
78	Lead(II) bis(methanesulfonate)*	17570-76-2	0.01	Toxic for Reproduction
79	Formamide	75-12-7	0.005	Toxic for Reproduction
80	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	0.005	Carcinogenic
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)	110-71-4	0.005	Toxic for Reproduction
82	[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	0.01	Carcinogenic
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.005	Mutagenic
84	4,4'-bis(dimethylamino)benzophenone	90-94-8	0.005	Carcinogenic
85	Pyrochlore, antimony lead yellow*	8012-00-8	0.01	Toxic for Reproduction
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.005	Carcinogenic

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
87	Henicosafluoroundecanoic acid	2058-94-8	0.005	vPvB
88	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	0.01	Respiratory sensitising properties
89	Cyclohexane-1,2-dicarboxylic anhydride , cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.01	Respiratory sensitising properties
90	Dibutyltin dichloride (DBTC)	683-18-1	0.01	Toxic for Reproduction
91	Lead bis(tetrafluoroborate)*	13814-96-5	0.01	Toxic for Reproduction
92	Lead dinitrate *	10099-74-8	0.01	Toxic for Reproduction
93	Silicic acid, lead salt *	11120-22-2	0.01	Toxic for Reproduction
94	4-Aminoazobenzene	60-09-3	0.005	Carcinogenic
95	Lead titanium zirconium oxide*	12626-81-2	0.01	Toxic for Reproduction
96	Lead monoxide (lead oxide)*	1317-36-8	0.01	Toxic for Reproduction
97	o-Toluidine	95-53-4	0.005	Carcinogenic
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01	Toxic for Reproduction
99	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped*	68784-75-8	0.01	Toxic for Reproduction
100	Trilead bis(carbonate)dihydroxide*	1319-46-6	0.01	Toxic for Reproduction
101	Furan	110-00-9	0.01	Carcinogenic
102	N,N-dimethylformamide	68-12-2	0.005	Toxic for Reproduction
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.005	Endocrine disrupting properties
104	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]	-	0.005	Endocrine disrupting properties

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
105	4,4'-methylenedi-o-toluidine	838-88-0	0.005	Carcinogenic
106	Diethyl sulphate	64-67-5	0.005	Carcinogenic; Mutagenic
107	Dimethyl sulphate	77-78-1	0.01	Carcinogenic
108	Lead oxide sulfate*	12036-76-9	0.01	Toxic for Reproduction
109	Lead titanium trioxide*	12060-00-3	0.01	Toxic for Reproduction
110	Acetic acid, lead salt, basic*	51404-69-4	0.01	Toxic for Reproduction
111	[Phthalato(2-)]dioxotrilead *	69011-06-9	0.01	Toxic for Reproduction
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.005	PBT ; vPvB
113	N-methylacetamide	79-16-3	0.005	Toxic for Reproduction
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01	Toxic for Reproduction
115	1,2-Diethoxyethane	629-14-1	0.005	Toxic for Reproduction
116	Tetralead trioxide sulphate*	12202-17-4	0.01	Toxic for Reproduction
117	N-pentyl-isopentylphthalate	776297-69-9	0.005	Toxic for Reproduction
118	Dioxobis(aphthal)trilead *	12578-12-0	0.01	Toxic for Reproduction
119	Tetraethyllead*	78-00-2	0.01	Toxic for Reproduction
120	Pentalead tetraoxide sulphate *	12065-90-6	0.01	Toxic for Reproduction
121	Pentacosafluorotridecanoic acid	72629-94-8	0.005	vPvB
122	Tricosafluorododecanoic acid	307-55-1	0.005	vPvB
123	Heptacosafluorotetradecanoic acid	376-06-7	0.005	vPvB
124	1-bromopropane (n-propyl bromide)	106-94-5	0.01	Toxic for Reproduction
125	Methoxyacetic acid	625-45-6	0.005	Toxic for Reproduction
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.005	Carcinogenic
127	Methyloxirane (Propylene oxide)	75-56-9	0.01	Carcinogenic; Mutagenic
128	Trilead dioxide phosphonate	12141-20-7	0.01	Toxic for Reproduction
129	o-aminoazotoluene	97-56-3	0.005	Carcinogenic
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.005	Toxic for Reproduction
131	4,4'-oxydianiline and its salts	101-80-4	0.005	Carcinogenic; Mutagenic
132	Orange lead (lead tetroxide)*	1314-41-6	0.01	Toxic for Reproduction
133	Biphenyl-4-ylamine	92-67-1	0.005	Carcinogenic
134	Diisopentylphthalate	605-50-5	0.005	Toxic for Reproduction
135	Fatty acids, C16-18, lead salts	91031-62-8	0.01	Toxic for Reproduction

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
136	Diazene-1,2-dicarboxamide(C,C'-azodi(formamide))	123-77-3	0.01	Respiratory sensitising properties
137	Sulfurous acid, lead salt, dibasic *	62229-08-7	0.01	Toxic for Reproduction
138	Lead cyanamidate*	20837-86-9	0.01	Toxic for Reproduction
139	Cadmium*	7440-43-9	0.005	Carcinogenic ; Specific target organ toxicity after repeated exposure
140	Cadmium oxide*	1306-19-0	0.005	Carcinogenic ; Specific target organ toxicity after repeated exposure
141	Dipentyl phthalate (DPP)	131-18-0	0.005	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	Endocrine disrupting properties
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01	Toxic for reproduction ; PBT
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01	Toxic for reproduction ; PBT
145	Cadmium sulphide*	1306-23-6	0.005	Carcinogenic ; Specific target organ toxicity after repeated exposure
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01	Carcinogenic
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) aphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01	Carcinogenic

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
148	Dihexyl phthalate	84-75-3	0.01	Toxic for reproduction
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	0.01	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHP)	68515-50-4	0.01	Toxic for reproduction
153	Cadmium chloride*	10108-64-2	0.01	Carcinogenic; Mutagenic Toxic for reproduction Specific target organ toxicity after repeated exposure
154	Sodium perborate; perboric acid, sodium salt*	-	0.01	Toxic for reproduction
155	Sodium peroxometaborate*	7632-04-4	0.01	Toxic for reproduction
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01	vPvB, PBT
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01	vPvB, PBT
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.01	Toxic for Reproduction
159	Cadmium fluoride*	7790-79-6	0.01	Carcinogenic ; Mutagenic Toxic for reproduction Specific target organ toxicity after repeated exposure
160	Cadmium sulphate*	10124-36-431119-53-6	0.01	Carcinogenic ; Mutagenic Toxic for reproduction Specific target organ toxicity after repeated exposure

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	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	68515-51-5 68648-93-1	0.01	Toxic for Reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof	-	0.01	vPvB
164	1,3-propanesultone	1120-71-4	0.01	Carcinogenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01	vPvB
167	Nitrobenzene	98-95-3	0.01	Toxic for reproduction
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01	Toxic for reproduction PBT
169	Benzo[def]chrysene	50-32-8	0.01	Carcinogenic Mutagenic Toxic for reproduction PBT vPvB

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01	Toxic for reproduction; Endocrine disrupting properties
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01	Toxic for reproduction; PBT
172	4-heptylphenol, branched and linear (4-HPbl)	-	0.01	Endocrine disrupting properties
173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.01	Endocrine disrupting properties
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.01	vPvB
175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9 9135821-74-8 135821-03-3	0.01	vPvB
176	Benz[a]anthracene	56-55-3	0.01	Carcinogenic PBT vPvB
177	Cadmium nitrate*	10325-94-7	0.01	Carcinogenic Toxic
178	Cadmium carbonate*	513-78-0	0.01	Carcinogenic Toxic
179	Cadmium hydroxide*	21041-95-2	0.01	Carcinogenic Toxic
180	Chrysene	218-01-9	0.01	Carcinogenic PBT vPvB
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.01	endocrine disruption
182	Dicyclohexyl phthalate	84-61-7	0.01	toxic for reproduction; endocrine disruption
183	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01	respiratory sensitising
184	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01	PBT vPvB

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
185	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01	PBT vPvB
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01	PBT vPvB
187	Lead*	7439-92-1	0.01	Toxic for reproduction;
188	Disodium octaborate*	12008-41-2	0.01	Toxic for reproduction;
189	Benzo[ghi]perylene	191-24-2	0.01	PBT vPvB
190	Terphenyl hydrogenated	61788-32-7	0.01	vPvB
191	Ethylenediamine (EDA)	107-15-3	0.01	respiratory sensitising
192	2,2-bis-(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01	Toxic for reproduction
193	Benzo[k]fluoranthene	207-08-9	0.01	Carcinogenic PBT vPvB
194	Fluoranthene	206-44-0	0.01	PBT vPvB
195	Phenanthrene	85-01-8	0.01	vPvB
196	Pyrene	129-00-0	0.01	PBT vPvB
197	1,7,7-trimethyl-3-(phenylmethylene)-bicyclo[2.2.1]heptan-2-one	15087-24-8	0.01	Endocrine disrupting properties
198	4-tert-butyphenol	98-54-4	0.01	Endocrine disrupting properties
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, Its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01	Equivalent level of concern having probable serious effects on the environment Equivalent level of concern having probable serious effects on human health
200	2-methoxyethyl acetate	110-49-6	0.01	Toxic for reproduction
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.01	Endocrine disrupting properties
202	Diisohexyl phthalate	71850-09-4	0.01	Toxic for reproduction
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01	Toxic for reproduction
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01	Toxic for reproduction

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01	Equivalent level of concern having probable serious effects to the environment Equivalent level of concern having probable serious effects to human health
206	1-vinylimidazole	1072-63-5	0.01	Toxic for reproduction
207	2-methylimidazole	693-98-1	0.01	Toxic for reproduction
208	Butyl 4-hydroxybenzoate	94-26-8	0.01	Endocrine disrupting properties
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.01	Toxic for reproduction
210	Dioctyltin 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	-	0.01	Toxic for reproduction
211	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01	Toxic for reproduction
212	1,4-dioxane	123-91-1	0.01	Carcinogenic Equivalent level of concern having probable serious effects to the environment Equivalent level of concern having probable serious effects to human health
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)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.01	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01	Toxic for reproduction
215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.01	Endocrine disrupting properties

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
216	glutaral	111-30-8	0.01	Respiratory sensitising properties
217	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-	0.01	PBT vPvB
218	orthoboric acid, sodium salt*	-	0.01	Toxic for reproduction
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01	Toxic for reproduction Endocrine disrupting properties
220	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01	Toxic for reproduction
221	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	0.01	PBT
222	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.01	Toxic for reproduction
223	(±)-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	Endocrine disrupting properties
224	N-(hydroxymethyl)acrylamide	924-42-5	0.01	Carcinogenic Mutagenic
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.01	vPvB
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.05	Carcinogenic
227	4,4'-sulphonyldiphenol	80-09-1	0.05	Toxic for reproduction ; Endocrine disrupting properties
228	Barium diboron tetraoxide*	13701-59-2	0.01	Toxic for reproduction

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and / or combinations thereof	-	0.01	vPvB
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01	Endocrine disrupting properties
231	Melamine	108-78-1	0.05	Equivalent level of concern having probable serious effects to the environment ; Equivalent level of concern having probable serious effects to human health
232	Perfluoroheptanoic acid and its salts	-	0.01	Toxic for reproduction ; PBT ; vPvB ; Equivalent level of concern having probable serious effects to the environment ; Equivalent level of concern having probable serious effects to human health
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	473-390-7	0.01	vPvB
234	Bis(4-chlorophenyl) sulphone	80-07-9	0.05	vPvB
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01	Toxic for Reproduction
236	2,4,6-tri-tert-butylphenol	732-26-3	0.01	Toxic for Reproduction PBT vPvB
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.01	vPvB
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01	Toxic for Reproduction
239	Bumetrizole (UV-326)	3896-11-5	0.01	vPvB

No.	Substance Name	CAS No.	For material detection limit,%	Basis for identification as a SVHC
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.01	Endocrine disrupting properties
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.01	Toxic for Reproduction
242	Triphenyl phosphate	115-86-6	0.01	Endocrine disrupting properties
243	Reaction materials of triphenyl thiophosphoric acid and tert-butylbenzene derivatives	192268-65-8	0.01	vPvB
244	The reaction material of the object	338-83-0	0.01	vPvB
245	Perfluorotripropylamine	107-51-7	0.01	vPvB
246	Octamethyltrisiloxane.	597-82-0	0.01	PBT
247	(0,0,0-triphenyl) thiocarbothioate (TPPT) 6-[(C10-C13) -alkyl- (branched chain). Unsaturated) -2,5-dioxopyrrolidine-1-yl caproic acid	2156592-54-8	0.01	Toxic for Reproduction

Remark(s): - The candidate list of SVHC for authorization may change in the future.
- Definition of classification is listed on Appendix A of this report in accordance with (EC) No 1272/2008.
- * Test results are calculated as per selected ion(s) including cadmium, cobalt, sodium, lead, arsenic, chloride, calcium, strontium, chromate, aluminum, zirconium, boron, nitrogen, and arsenate. Concentration as per compound is calculated from the test result as per selected ion. Further confirmation and quantization techniques including Ion Chromatography, UV-Vis spectrometry and Thin Layer Chromatography would be adopted whenever a positive result is found over the reporting limit.

APPENDIX A

Definition under (EC)No 1272/2008

Carcinogen Category 1 : Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.

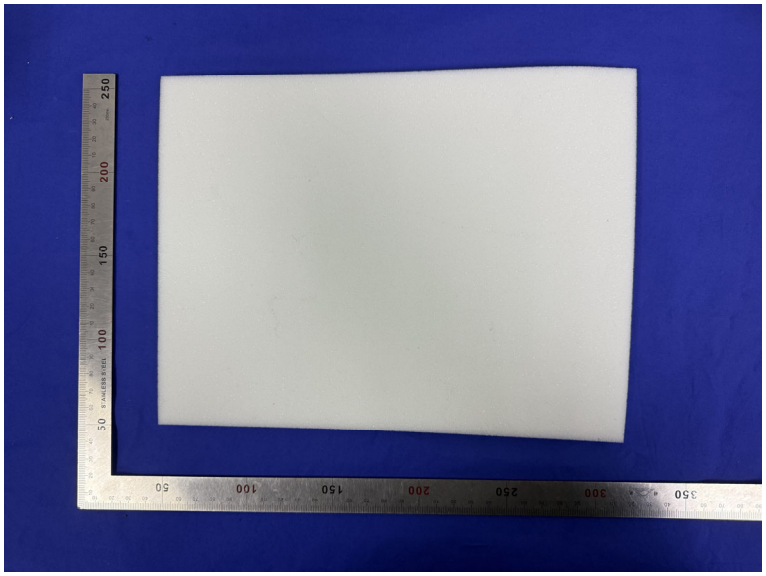
Carcinogen Category 2 : Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of :
-appropriate long-term animal studies
-other relevant information.

Mutagen : Substances known to be mutagenic to man. There is sufficient evidence to establish a causal

Category 1		association between human exposure to a substance and heritable genetic damage.
Mutagen Category 2	:	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: -appropriate animal studies -other relevant information.
Toxic to Reproduction Category 1	:	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
Toxic to Reproduction Category 2	:	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility in the basis of: -clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects,-other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of: -clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects, -other relevant information.
PBT & vPvB	:	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a “safe” concentration in the environment cannot be established with sufficient reliability.

Test Report

The photo of submitted samples



******* End of Test Report *******

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by The STC (Shanghai) Company Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3 ,the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.

4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.

6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after

12. the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

13. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.