



Test Report

Report No.: WTH23H01005436C

Date: Jan. 16, 2023

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Applicant: FOSHAN BLUE ROCKET ELECTRONICS CO., LTD

Address: NO.45 GUXIN ROAD, CHANCHENG DISTRICT, FOSHAN, GUANGDONG, P.R.C.

Sample Information:

Sample Name: Semiconductor Device

Sample Model: SOT-523

Sample Received Date: Jan. 10, 2023

Testing Period: Jan. 10, 2023 - Jan. 16, 2023

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

Test Requested:	Conclusion
1.As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen Two hundred and twenty-four (224) Substances of Very High Concern (SVHC) in the sample. The list is the one that is published by European Chemicals Administration (ECHA) on June 10, 2022.	PASS
2.As specified by client, to screen proposed Nine(9) Substances of Very High Concern (SVHC) in the sample. The list is the one that is published by European Chemicals Administration (ECHA) on September 2, 2022.	PASS
3.As specified by client, refer to G/TBT/N/EU/803, to screen the Resorcinol content in the sample.	PASS

Remark: Pass means each result of 224 SVHC and proposed 9 SVHC and Resorcinol is less than 0.1%.

Signed for and on behalf of HCT

Kathy Liu





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(SVHC)

Tested Method:

HCT In-house method HCT/SZ-SOP-WJ-PI034, HCT/SZ-SOP-YJ-PI053;

Analysis was performed by ICP-OES/GC-MS (HS)/HPLC-DAD-MS/ IC/AAS/UV-VIS.

Test Result(s):

Test Item(s)	RL(%)	Result(s)(%)
224 SVHC	/	N.D.
Proposed 9 SVHC	/	N.D.
Resorcinol	0.0100	N.D.

Note:

0.1%=1000mg/kg

mg/kg (milligram per kilogram) = ppm (parts per million)

N.D.= Not Detected (<Reporting Limit)

RL=Reporting Limit (See List of tested SVHC)

Substances in candidate list of SVHC please refer to following page(s).

Remarks:

1. As the Result of above substance that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of the substance in the sample.
2. The reporting limit is evaluated based on the representative substances.

Sample Description:

No.	HCT Sample ID	Test Part Description	
1	WTH23H01005434C~36C.1	1	Black body





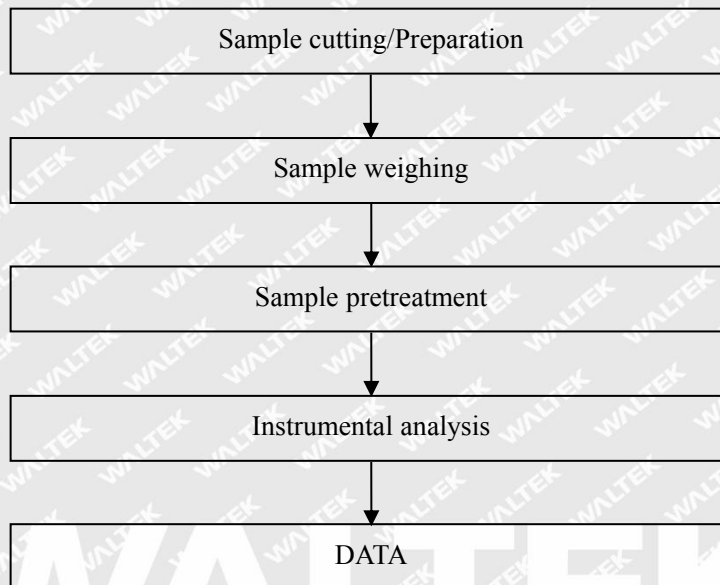
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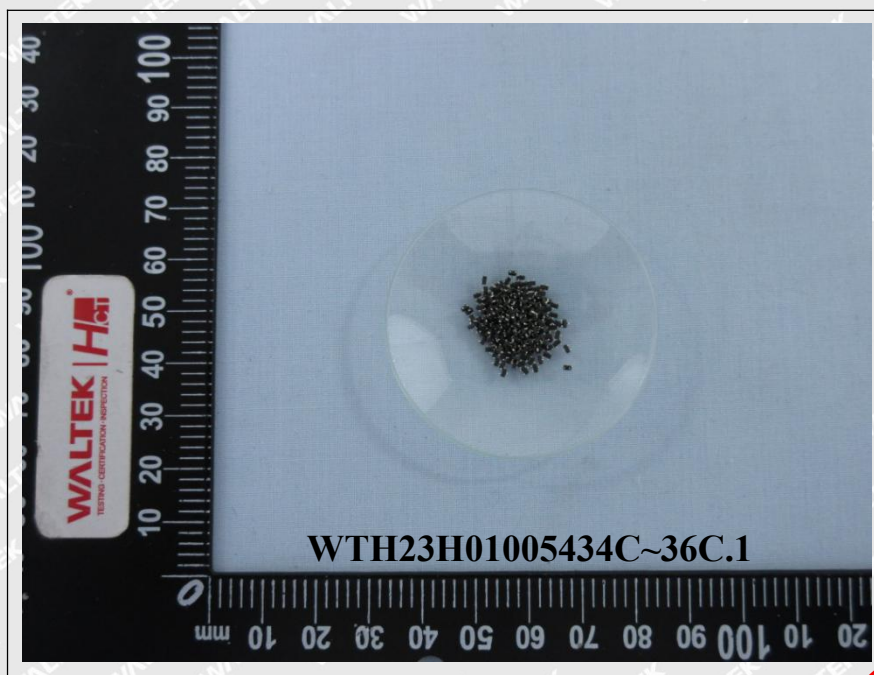
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Test Flow Chart



The photo of the sample





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Full list of tested SVHC:

The first 15 SVHC (Announced in October, 2008)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
1	Anthracene	120-12-7	204-371-1	0.0050
2	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.0050
3	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.0050
4	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	0.0050
5	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.0050
6	Bis(tributyltin) oxide (TBTO)	56-35-9	200-268-0	0.0050
7	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	201-329-4	0.0050
8	Hexabromocyclododecane (HBCDD) (and all major diastereoisomers identified)	25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.0050
9	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.0100
10	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.0500
11	Triethyl arsenate*	15606-95-8	427-700-2	0.0500
12	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.0500
13	Diarsenic trioxide*	1327-53-3	215-481-4	0.0500
14	Cobalt dichloride*	7646-79-9	231-589-4	0.0500
15	Sodium dichromate*	7789-12-0, 10588-01-9	234-190-3	0.0500





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The second 13 SVHC (Announced in January and March, 2010)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
16	^① Anthracene oil	90640-80-5	292-602-7	0.0500
17	^① Anthracene oil, anthracene paste, distn. lights****	91995-17-4	295-278-5	0.0500
18	^① Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.0500
19	^① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.0500
20	^① Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.0500
21	Diisobutyl phthalate	84-69-5	201-553-2	0.0050
22	2,4-dinitrotoluene	121-14-2	204-450-0	0.0100
23	^② Lead chromate	7758-97-6	231-846-0	0.0500
24	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.0500
25	^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.0500
26	^① Pitch, coal tar, high-temp.	65996-93-2	266-028-2	0.0500
27	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.0100
28	Acrylamide	79-06-1	201-173-7	0.0100

The third 8 SVHC (Announced in June, 2010)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
29	Trichloroethylene	79-01-6	201-167-4	0.0100
30	Boric acid* (EC No. 233-139-2 and EC No. 234-343-4)	10043-35-3/ 11113-50-1	233-139-2 234-343-4	0.0500
31	Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.0500
32	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.0500
33	Sodium chromate*	7775-11-3	231-889-5	0.0500
34	Potassium chromate*	7789-00-6	232-140-5	0.0500
35	Ammonium dichromate*	7789-09-5	232-143-1	0.0500
36	Potassium dichromate*	7778-50-9	231-906-6	0.0500





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The fourth 8 SVHC(Announced in December,2010)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
37	Chromium trioxide*	1333-82-0	215-607-8	0.0500
38	2-methoxyethanol	109-86-4	203-713-7	0.0500
39	2-ethoxyethanol	110-80-5	203-804-1	0.0500
40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.0500
41	Cobalt(II) carbonate*	513-79-1	208-169-4	0.0500
42	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.0500
43	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.0500
44	Acids generated from chromium trioxide* and their oligomers:Chromic acid,Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	0.0500

The fifth 7 SVHC(Announced in June, 2011)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.0100
46	Strontium chromate*	7789-06-2	232-142-6	0.0500
47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.0500
48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.0100
49	1-Methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	0.0100
50	1,2,3-trichloropropane	96-18-4	202-486-1	0.0100
51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.0500





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The sixth 20 SVHC (Announced in December, 2011)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
52	Aluminosilicate Refractory Ceramic Fibres	—	650-017-00-8**	0.0500
53	Zirconia Aluminosilicate Refractory Ceramic Fibres	—	650-017-00-8**	0.0500
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.0500
55	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.0500
56	Pentazinc chromate octahydroxide***	49663-84-5	256-418-0	0.0500
57	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	0.0500
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.0050
59	2-Methoxyaniline, o-Anisidine	90-04-0	201-963-1	0.0100
60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	0.0100
61	1,2-dichloroethane	107-06-2	203-458-1	0.0100
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.0100
63	Arsenic acid*	7778-39-4	231-901-9	0.0500
64	Calcium arsenate*	7778-44-1	231-904-5	0.0500
65	Trilead diarsenate*	3687-31-8	222-979-5	0.0500
66	N,N-dimethylacetamide	127-19-5	204-826-4	0.0100
67	Phenolphthalein	77-09-8	201-004-7	0.0500
68	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	0.0100
69	Lead diazide, Lead azide*	13424-46-9	236-542-1	0.0500
70	Lead styphnate*	15245-44-0	239-290-0	0.0500
71	Lead dipicrate*	6477-64-1	229-335-2	0.0500





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The seventh 13 SVHC (Announced in June, 2012)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.0100
73	1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.0100
74	Diboron trioxide*	1303-86-2	215-125-8	0.0500
75	Formamide	75-12-7	200-842-0	0.0500
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.0500
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.0500
78	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	423-400-0	0.0500
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.0100
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.0100
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethyl ammonium chloride (C.I. Basic Violet 3) (with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2))	548-62-9	208-953-6	0.0500
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2))	2580-56-5	219-943-6	0.0500
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) (with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2))	6786-83-0	229-851-8	0.0500
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2))	561-41-1	209-218-2	0.0100





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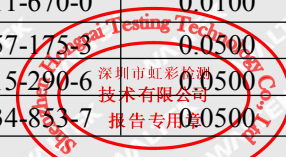
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The eighth 54 SVHC(Announced in December, 2012)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	214-604-9	0.0050
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.0100
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.0100
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.0100
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.0100
90	^① 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)	—	—	0.0100
91	^① 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)	—	—	0.0100
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	204-650-8	0.0100
93	Cyclohexane-1,2-dicarboxylic anhydride (all possible combinations of the cis- and trans-isomers)	85-42-7, 14166-21-3, 13149-00-3	201-604-9, 238-009-9, 236-086-3	0.0100
94	Hexahydromethylphthalic anhydride (including cis- and trans- stereo isomeric forms and all possible combinations of the isomers)	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.0100
95	Methoxyacetic acid	625-45-6	210-894-6	0.0100
96	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	284-032-2	0.0100
97	Diisopentyl phthalate	605-50-5	210-088-4	0.0100
98	n-pentyl-isopentyl phthalate	776297-69-9	—	0.0100
99	1,2-diethoxyethane	629-14-1	211-076-1	0.0100
100	N,N-dimethylformamide	68-12-2	200-679-5	0.0100
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.0100
102	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.0500
103	Trilead bis(carbonate) dihydroxide*	1319-46-6	215-290-6	0.0500
104	Lead oxide sulfate*	12036-76-9	234-853-7	0.0500





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No.	Substance Name(s)	CAS No.	EC No.	RL
105	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.0500
106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.0500
107	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.0500
108	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.0500
109	Lead cyanamidate*	20837-86-9	244-073-9	0.0500
110	Lead dinitrate*	10099-74-8	233-245-9	0.0500
111	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.0500
112	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.0500
113	Lead titanium trioxide*	12060-00-3	235-038-9	0.0500
114	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.0500
115	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.0500
116	Pyrochlore, antimony lead yellow***	8012-00-8	232-382-1	0.0500
117	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.0500
118	Silicic acid, lead salt*	11120-22-2	234-363-3	0.0500
119	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.0500
120	Tetraethyllead*	78-00-2	201-075-4	0.0500
121	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.0500
122	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.0500
123	Furan	110-00-9	203-727-3	0.0100
124	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.0100
125	Diethyl sulphate	64-67-5	200-589-6	0.0100
126	Dimethyl sulphate	77-78-1	201-058-1	0.0100
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (ZOLDINE MS-PLUS)	143860-04-2	421-150-7	0.0100
128	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.0100
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.0100
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.0100
131	4-aminoazobenzene	60-09-3	200-453-6	0.0100
132	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.0100
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.0100
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.0100
135	o-aminoazotoluene	97-56-3	202-591-2	0.0050
136	o-toluidine	95-53-4	202-429-0	0.0100
137	N-methylacetamide	79-16-3	201-182-6	0.0100
138	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.0100





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The ninth 6 SVHC(Announced in June, 2013)

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No.	Substance Name(s)	CAS No.	EC No.	RL
139	Cadmium	7440-43-9	231-152-8	0.0050
140	Cadmium oxide*	1306-19-0	215-146-2	0.0500
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.0100
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.0100
143	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.0100
144	①4-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)	—	—	0.0500

The tenth 7 SVHC(Announced in December, 2013)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
145	Cadmium sulphide *	1306-23-6	215-147-8	0.0100
146	Dihexyl phthalate	84-75-3	201-559-5	0.0100
147	②Disodium 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	0.0100
148	②Disodium 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	0.0100
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.0100
150	Lead di(acetate)*	301-04-2	206-104-4	0.0500
151	Trixylyl phosphate	25155-23-1	246-677-8	0.0100

The eleventh 4 SVHC(Announced in June, 2014)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.0100
153	Cadmium chloride*	10108-64-2	233-296-7	0.0100
154	Sodium perborate, perboric acid, sodium salt*	—	239-172-9, 234-390-0	0.0100
155	Sodium peroxometaborate*	7632-04-4	231-556-4	0.0100





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The twelfth 6 SVHC(Announced in December, 2014)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.0100
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.0100
158	Cadmium fluoride*	7790-79-6	232-222-0	0.0500
159	Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	0.0500
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (DOTE)	15571-58-1	239-622-4	0.0500
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-oct yl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	—	0.0500

The thirteenth 2 SVHC(Announced in June, 2015)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters (with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5))	68515-51-5 68648-93-1	271-094-0 272-013-1	0.0100
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl -1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl -1,3-dioxane [2] (covering any of the individual stereoisomers of [1] and [2] or any combination thereof)	—	—	0.0100





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The fourteenth 5 SVHC(Announced in December, 2015)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
164	Nitrobenzene	98-95-3	202-716-0	0.0100
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.0100
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.0100
167	1,3-propanesultone	1120-71-4	214-317-9	0.0100
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.0100

The fifteenth 1 SVHC(Announced in June, 2016)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.0100

The sixteenth 4 SVHC(Announced in January, 2017)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
170	4,4'-isopropylidenediphenol (Bisphenol A; BPA)	80-05-7	201-245-8	0.0100
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)	—	—	0.0500
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	-- 206-400-3 221-470-5	0.0100
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.0100

The seventeenth 1 SVHC(Announced in July, 2017)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	—	—	0.0100





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The eighteenth 7 SVHC(Announced in January, 2018)

Unit:%

No.	Substance Name(s)	CAS No.	EC No.	RL
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) (covering any of its individual anti- and syn-isomers or any combination thereof)	—	—	0.0500
176	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	0.0100
177	Cadmium nitrate*	10022-68-1, 10325-94-7	233-710-6	0.0500
178	Cadmium carbonate*	513-78-0	208-168-9	0.0500
179	Cadmium hydroxide*	21041-95-2	244-168-5	0.0500
180	Chrysene	218-01-9, 1719-03-5	205-923-4	0.0100
181	^① 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 (4-HPbl))	—	—	0.0500

The nineteenth 10 SVHC(Announced in June, 2018)

Unit:%

No.	Substance Name(s)	CAS No.	EC No.	RL
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (trimellitic anhydride; TMA)	552-30-7	209-008-0	0.0100
183	Benzo[ghi]perylene	191-24-2	205-883-8	0.0100
184	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.0100
185	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.0100
186	Disodium octaborate*	12008-41-2	234-541-0	0.0500
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.0100
188	Ethylenediamine (EDA)	107-15-3	203-468-6	0.0500
189	Lead	7439-92-1	231-100-4	0.0100
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.0100
191	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.0100





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The twentieth 6 SVHC(Announced in January, 2019)

Unit:%

No.	Substance Name(s)	CAS No.	EC No.	RL
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one(3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.0100
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane(AP-5)	6807-17-6	401-720-1	0.0100
194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.0100
195	Fluoranthene	206-44-0, 93951-69-0	205-912-4	0.0100
196	Phenanthrene	85-01-8	201-581-5	0.0100
197	Pyrene	129-00-0, 1718-52-1	204-927-3	0.0100

The twenty-first 4 SVHC(Announced in July, 2019)

Unit:%

No.	Substance Name(s)	CAS No.	EC No.	RL
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	—	—	0.0100
199	4-tert-butylphenol	98-54-4	202-679-0	0.0100
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.0100
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	—	—	0.0100

The twenty-second 4 SVHC(Announced in January , 2020)

Unit:%

No.	Substance Name(s)	CAS No.	EC No.	RL
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CG 25-369; IRGACURE 369; TK 11-319)	119313-12-1	404-360-3	0.0100
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (ACETOCURE 97; GENOCURE*PMP; IGM 4817; IRGACURE 907; SPEEDCURE 97)	71868-10-5	400-600-6	0.0100
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.0100
205	Perfluorobutane sulfonic acid (PFBS) and its salts	—	—	0.0100





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The twenty-third 4 SVHC (Announced in June, 2020)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
206	1-vinylimidazole	1072-63-5	214-012-0	0.0500
207	2-methylimidazole	693-98-1	211-765-7	0.0500
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.0100
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	0.0500

The twenty-fourth 2 SVHC (Announced in January, 2021)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	0.0100
211	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	—	—	0.0500

The twenty-fifth 8 SVHC (Announced in July, 2021)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
212	1,4-dioxane	123-91-1	204-661-8	0.0100
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	221-967-7 253-057-0 202-480-9	0.0100
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	—	—	0.0500
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	0.0100
216	glutaral	111-30-8	203-856-5	0.0100
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	—	—	0.0100
218	orthoboric acid, sodium salt*	13840-56-7	237-560-2	0.0500
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)	—	—	0.0500





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The twenty-sixth 4 SVHC (Announced in January, 2022)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
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)	—	—	0.0100
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	0.0100
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	0.0500
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.0100

The twenty-seventh 1 SVHC (Announced in June, 2022)

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.0100

Proposed 9 Substances of Very High Concern on September, 2022

Unit: %

No.	Substance Name(s)	CAS No.	EC No.	RL
1	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.0100
2	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.0100
3	4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.0100
4	Barium diboron tetraoxide*	13701-59-2	237-222-4	0.0500
5	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	—	—	0.0100
6	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.0100
7	Melamine	108-78-1	203-615-4	0.0100
8	Perfluoroheptanoic acid and its salts	—	—	0.0100
9	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	—	473-390-7	0.0100

Note:

-0.1%=1000mg/kg





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-mg/kg (milligram per kilogram) = ppm (parts per million)

-*: Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, tin, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

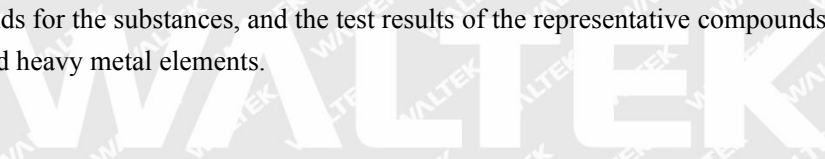
-**: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation(EC) No 1272/2008).

-***: C.I.: Colour Index

-****: Light fractions from distillation

-^① : In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-^② : In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.





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Appendix:

(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:

<http://echa.europa.eu/web/guest/candidate-list-table>

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

(2) Concerning article(s):

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).

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.

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

-a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

-a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

-a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.





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Statement:

1. This report is considered invalid without approved signature and special seal;
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of HCT, this report can't be reproduced except in full;
5. The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc. and just for internal reference;
6. The "n" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation;
7. Decision rules used in this report:
 - (1) According to the Decision rules in the regulations/standards listed in the Test Requested;
 - (2) If there is no Decision rules specified in the regulations listed in the Test Requested, then according to CNAS-GL015 Guidelines on Decision Rules and Statements of Conformity, 6.2.1, Simple Acceptance ($w=0$) of The binary Decision rule:
PASS (Accepted) - The measured value is within the tolerance interval.
FAIL (Rejected) - The measured value is outside the tolerance interval.

End

