



TEST REPORT

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Test Report No. : 6091565.50QS
Project no. : 6091565

Client : Fujian Fuan Wendy Electrical Machinery Co., Ltd.
Qin Xi Yang Industrial Zone, Fuan, Fujian 355000, P.R.China

Date sample received : 2020.11.17 / 2020.12.29

Product : water pump

Product description : Please refer to next page(s).

Manufacturer : Fujian Fuan Wendy Electrical Machinery Co., Ltd.
Qin Xi Yang Industrial Zone, Fuan, Fujian 355000, P.R.China

Test Requested : European Commission Regulation 1907/2006 (REACH Act)

Test Method : In-house method with reference to EPA: 8270D, 3052, 3050B, 6010C, 3550C, 8321B, EN14362, DIN EN ISO 17353, IEC 62321, ISO 14389, AfPS GS 2019:01 and EN 14582.

Result : Please refer to next page(s).

Conclusion : Based on the analysis on the tested materials, none of the REACH-SVHC-Substances were found in a concentration above 0.1 %; therefore the threshold values according to Regulation 1907/2006 article 33 (June 25th, 2020) for these REACH-SVHC-Substances are not exceeded.

Testing Period : 2020.11.17—2021.01.07

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd



Liu YuPing (刘宇平)
Project Manager

Wang Yueqing (王悦青)
Test Engineer

Summary and assessment:

The here tested SVHC-substances do not exceed the threshold values according to the SVHC-list of Article 59 (June 25th, 2020), Regulation 1907/2006 (REACH).

Tested Articles	Tested Plan	Summary
021	I	All tested SVHC < 0.1%
044	I	All tested SVHC < 0.1%
003	I	All tested SVHC < 0.1%
004	I	All tested SVHC < 0.1%
007	I	All tested SVHC < 0.1%
012	I	All tested SVHC < 0.1%
013	I	All tested SVHC < 0.1%
014	I	All tested SVHC < 0.1%
015	I	All tested SVHC < 0.1%
016	I	All tested SVHC < 0.1%
017	I	All tested SVHC < 0.1%
018	I	All tested SVHC < 0.1%
019	I	All tested SVHC < 0.1%
023	I	All tested SVHC < 0.1%
024	I	All tested SVHC < 0.1%
026	I	All tested SVHC < 0.1%
043	I	All tested SVHC < 0.1%
051	I	All tested SVHC < 0.1%
052	I	All tested SVHC < 0.1%
065	I	All tested SVHC < 0.1%
066	I	All tested SVHC < 0.1%
067	I	All tested SVHC < 0.1%
068	I	All tested SVHC < 0.1%
070	I	All tested SVHC < 0.1%
073	I	All tested SVHC < 0.1%
074	I	All tested SVHC < 0.1%
076	I	All tested SVHC < 0.1%
077	I	All tested SVHC < 0.1%
078	I	All tested SVHC < 0.1%
079	I	All tested SVHC < 0.1%
080	I	All tested SVHC < 0.1%
081	I	All tested SVHC < 0.1%
053	I	All tested SVHC < 0.1%
010	II	All tested SVHC < 0.1%
020	II	All tested SVHC < 0.1%
022	II	All tested SVHC < 0.1%
025	II	All tested SVHC < 0.1%
028	II	All tested SVHC < 0.1%
029	II	All tested SVHC < 0.1%

030	II	All tested SVHC < 0.1%
031	II	All tested SVHC < 0.1%
032	II	All tested SVHC < 0.1%
033	II	All tested SVHC < 0.1%
034	II	All tested SVHC < 0.1%
035	II	All tested SVHC < 0.1%
036	II	All tested SVHC < 0.1%
037	II	All tested SVHC < 0.1%
038	II	All tested SVHC < 0.1%
039	II	All tested SVHC < 0.1%
040	II	All tested SVHC < 0.1%
041	II	All tested SVHC < 0.1%
042	II	All tested SVHC < 0.1%
045	II	All tested SVHC < 0.1%
046	II	All tested SVHC < 0.1%
047	II	All tested SVHC < 0.1%
048	II	All tested SVHC < 0.1%
049	II	All tested SVHC < 0.1%
050	II	All tested SVHC < 0.1%
074	II	All tested SVHC < 0.1%
054	II	All tested SVHC < 0.1%
055	II	All tested SVHC < 0.1%
056	II	All tested SVHC < 0.1%
057	II	All tested SVHC < 0.1%
058	II	All tested SVHC < 0.1%
059	II	All tested SVHC < 0.1%
060	II	All tested SVHC < 0.1%
061	II	All tested SVHC < 0.1%
062	II	All tested SVHC < 0.1%
063	II	All tested SVHC < 0.1%
064	II	All tested SVHC < 0.1%
069	II	All tested SVHC < 0.1%
075	II	All tested SVHC < 0.1%
082	II	All tested SVHC < 0.1%
083	II	All tested SVHC < 0.1%
084	II	All tested SVHC < 0.1%
085	II	All tested SVHC < 0.1%

Above results apply for single articles within the product (including all articles, which were analyzed in mixed samples).

Test Plan I

No.	Name of the compound	CAS	Report Limit
1	2,4-Dinitrotoluene	121-14-2	n.a.
2	2-Ethoxyethanol	110-80-5	n.a.
3	2-Methoxyethanol	109-86-4	n.a.
4	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	n.a.
5	Musk xylene	81-15-2	n.a.
6	Acrylamide	79-06-1	n.a.
7	Alkanes, C 10 – C 13, chloro-	85535-84-8	n.a.
8	Aluminosilicate refractory ceramic fibres ^(a)	-	n.a.
9	Ammonium dichromate	7789-09-5	0.1%
10	Anthracene	120-12-7	n.a. ¹⁾
11	Anthracene oil	90640-80-5	n.a. ¹⁾
12	Anthracene oil, anthracene paste	90640-81-6	n.a. ¹⁾
13	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	n.a. ¹⁾
14	Anthracene oil, anthracene paste, distn.lights	91995-17-4	n.a. ¹⁾
15	Anthracene oil, anthracene-low	90640-82-7	n.a. ¹⁾
16	Benzyl butyl phthalate (BBP)	85-68-7	n.a.
17	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.a.
18	Bis(tributyltin)oxide (TBTO)	56-35-9	n.a.
19	Boric acid	10043-35-3 11113-50-1	0.1%
20	Chromic and Dichromic acid, oligomers of chromic and dichromic acid	7738-94-5 13530-68-2	0.1%
21	Chromium trioxide	1333-82-0	0.1%
22	Cobalt dichloride	7646-79-9	0.1%
23	Cobalt carbonate	513-79-1	0.1%
24	Cobalt diacetate	71-48-7	0.1%
25	Cobalt dinitrate	10141-05-6	0.1%
26	Cobalt sulphate	10124-43-3	0.1%
27	Diarsenic pentaoxide	1303-28-2	0.1%
28	Diarsenic trioxide	1327-53-3	0.1%
29	Dibutyl phthalate (DBP)	84-74-2	n.a.
30	Diisobutyl phthalate (DiBP)	84-69-5	n.a.
31	Disodium tetraborate, anhydrous	1330-43-4	0.1%
	pentahydrate	12179-04-3	0.1%
	decahydrate	1303-96-4	0.1%
32	Hexabromocyclododecane (HBCDD)	25637-99-4 (*)	n.a.
33	Lead chromate	7758-97-6	0.1%
34	Lead chromate molybdate sulphate red	12656-85-8	0.1%
35	Lead hydrogen arsenate	7784-40-9	0.1%
36	Lead sulphochromate yellow	1344-37-2	0.1%
37	Pitch, coal tar, high temp.	-	n.a.
38	Potassium chromate	7789-00-6	0.1%
39	Potassium dichromate	7778-50-9	0.1%

40	Sodium chromate	7775-11-3	0.1%
41	Sodium dichromate	7789-12-0 / 10588-01-9	0.1%
42	Tetraboron disodium heptaoxide, hydrate	12267-73-1	0.1% ²⁾
43	Trichlorethylene	79-01-6	n.a.
44	Triethyl arsenate	15606-95-8	0.1%
45	Tris(2-chlorethyl)phosphate (TCEP)	115-96-8	n.a.
46	Zirconia Aluminosilicate refractory ceramic fibres ^(b)	-	n.a.
47	2-Ethoxyethyl acetate	111-15-9	n.a.
48	1,2,3-Trichloropropane	96-18-4	n.a.
49	1-Methyl-2-pyrrolidone	872-50-4	n.a.
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	n.a.
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	n.a.
52	Strontium chromate		0.1%
53	Hydrazine	7803-57-8/ 302-01-2	n.a.
54	Lead styphnate	15245-44-0	0.1%
55	Lead diazide, Lead azide	13424-46-9	0.1%
56	Lead dipicrate	6477-64-1	0.1%
57	Phenolphthalein	77-09-8	n.a.
58	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	n.a.
59	N,N-dimethylacetamide (DMAC)	127-19-5	n.a.
60	Trilead diarsenate	3687-31-8	0.1%
61	Calcium arsenate	7778-44-1	0.1%
62	Arsenic acid	7778-39-4	0.1%
63	Bis(2-methoxyethyl) ether (Diglyme)	111-96-6	n.a.
64	1,2-Dichloroethane	107-06-2	n.a.
65	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol (Octylphenol)	140-66-9	n.a.
66	2-Methoxyaniline; o-Anisidine (Anisidine)	90-04-0	n.a.
67	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	n.a.
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	n.a.
69	Pentazinc chromate octahydroxide	49663-84-5	0.1%
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	0.1%
71	Dichromium tris(chromate)	24613-89-6	0.1%
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	n.a.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	n.a.
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	n.a. ³⁾
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	n.a.
76	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	n.a. ³⁾
77	[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	n.a. ³⁾
78	Diboron trioxide	1303-86-2	0.1%
79	Formamide	75-12-7	n.a.
80	Lead(II) bis(methanesulfonate)	17570-76-2	0.1%

81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	n.a.
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	n.a.
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	n.a. ³⁾
84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	n.a.
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	n.a.
86	Pentacosafuorotridecanoic acid	72629-94-8	n.a.
87	Tricosafuorododecanoic acid	307-55-1	n.a.
88	Henicosafuoroundecanoic acid	2058-94-8	n.a.
89	Heptacosafuorotetradecanoic acid	376-06-7	n.a.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	n.a.
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] ^(c)	85-42-7, 13149-00-3, 14166-21-3	n.a.
92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] ^(d)	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	n.a.
93	4-Nonylphenol, branched and linear ^(e)	-	n.a.
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated ^(f)	-	n.a.
95	Methoxyacetic acid	625-45-6	n.a.
96	N,N-dimethylformamide	68-12-2	n.a.
97	Dibutyltin dichloride (DBTC)	683-18-1	n.a.
98	Lead monoxide (Lead oxide)	1317-36-8	0.1%
99	Orange lead (Lead tetroxide)	1314-41-6	0.1%
100	Lead bis(tetrafluoroborate)	13814-96-5	0.1%
101	Trilead bis(carbonate)dihydroxide	1319-46-6	0.1%
102	Lead titanium trioxide	12060-00-3	0.1%
103	Lead titanium zirconium oxide	12626-81-2	0.1%
104	Silicic acid, lead salt	11120-22-2	0.1%
105	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped ^(g)	68784-75-8	0.1%
106	1-bromopropane (n-propyl bromide)	106-94-5	n.a.
107	Methyloxirane (Propylene oxide)	75-56-9	n.a.
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	n.a.
109	Diisopentylphthalate (DIPP)	605-50-5	n.a.
110	N-pentyl-isopentylphthalate	776297-69-9	n.a.
111	1,2-diethoxyethane	629-14-1	n.a.
112	Acetic acid, lead salt, basic	51404-69-4	0.1%
113	Lead oxide sulfate	12036-76-9	0.1%
114	[Phthalato(2-)]dioxotrilead	69011-06-9	0.1%
115	Dioxobis(stearato)trilead	12578-12-0	0.1%
116	Fatty acids, C16-18, lead salts	91031-62-8	0.1%
117	Lead cyanidate	20837-86-9	0.1%
118	Lead dinitrate	10099-74-8	0.1%
119	Pentalead tetraoxide sulphate	12065-90-6	0.1%
120	Pyrochlore, antimony lead yellow	8012-00-8	0.1%

121	Sulfurous acid, lead salt, dibasic	62229-08-7	0.1%
122	Tetraethyllead	78-00-2	0.1%
123	Tetralead trioxide sulphate	12202-17-4	0.1%
124	Trilead dioxide phosphonate	12141-20-7	0.1%
125	Furan	110-00-9	n.a.
126	Diethyl sulphate	64-67-5	n.a.
127	Dimethyl sulphate	77-78-1	n.a.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	n.a.
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	n.a.
130	4,4'-methylenedi-o-toluidine	838-88-0	n.a.
131	4,4'-oxydianiline and its salts	101-80-4	n.a.
132	4-aminoazobenzene	60-09-3	n.a.
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	n.a.
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	n.a.
135	Biphenyl-4-ylamine	92-67-1	n.a.
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	n.a.
137	o-toluidine	95-53-4	n.a.
138	N-methylacetamide	79-16-3	n.a.
139	Pentadecafluorooctanoic acid (PFOA)	335-67-1	n.a.
140	Cadmium oxide	1306-19-0	0.1%
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	n.a.
142	Cadmium	7440-43-9	0.1%
143	4-Nonylphenol, branched and linear, ethoxylated h)	--	n.a.
144	Dipentyl phthalate (DPP)	131-18-0	n.a.
145	Cadmium sulphide	1306-23-6	0.1%
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	n.a.
147	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	n.a.
148	Di-n-hexyl phthalate (DnHP)	84-75-3	n.a.
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	n.a.
150	Lead di(acetate)	301-04-2	0.1%
151	Triethyl phosphate	25155-23-1	n.a.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	n.a.
153	Cadmium chloride	10108-64-2	0.1%
154	Sodium perborate; perboric acid, sodium salt	15120-21-5 11138-47-9 10332-33-9 13517-20-9 10486-00-7 37244-98-7 90568-23-3 125022-34-6	0.1%
155	Sodium peroxometaborate	7632-04-4 12040-72-1 10332-33-9 13517-20-9 10486-00-7	0.1%

		37244-98-7	
156	Cadmium fluoride	7790-79-6	0.1%
157	Cadmium sulphate	10124-36-4; 31119-53-6	0.1%
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	n.a.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	n.a.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	n.a.
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)	-	n.a.
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- Benzenedicarboxylicacid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	n.a.
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] i)	-	n.a.
164	1,3-propanesultone	1120-71-4	n.a.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	n.a.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	n.a.
167	Nitrobenzene	98-95-3	n.a.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	n.a.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	n.a.
170	p-(1,1-dimethylpropyl)phenol	80-46-6	n.a.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	n.a.
172	4-Heptylphenol, branched and linear ^①	-	n.a.
173	4,4'-isopropylidenediphenol	80-05-7	n.a.
174	Perfluorohexane-1-sulphonic acid and its salts	-	n.a.
175	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)	-	n.a.
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof	-	n.a.
177	Chrysene	218-01-9, 1719-03-5	n.a.
178	Cadmium nitrate	10022-68-1, 10325-94-7	0.1%
179	Cadmium hydroxide	21041-95-2	0.1%
180	Cadmium carbonate	513-78-0	0.1%
181	Benz[a]anthracene	56-55-3, 1718-53-2	n.a.

182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	n.a.
183	Benzo[ghi]perylene	191-24-2	n.a.
184	Decamethylcyclopentasiloxane (D5)	541-02-6	n.a.
185	Dicyclohexyl phthalate (DCHP)	84-61-7	n.a.
186	Disodium octaborate	12008-41-2	0.1%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	n.a.
188	Ethylenediamine (EDA)	107-15-3	n.a.
189	Lead	7439-92-1	0.1%
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	n.a.
191	Terphenyl, hydrogenated	61788-32-7	n.a.
192	Pyrene	129-00-0; 1718-52-1	n.a.
193	Phenanthrene	85-01-8	n.a.
194	Fluoranthene	206-44-0; 93951-69-0	n.a.
195	Benzo[k]fluoranthene	207-08-9	n.a.
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	n.a.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	n.a.
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	n.a.
199	4-tert-butylphenol	98-54-4	n.a.
200	2-methoxyethyl acetate	110-49-6	n.a.
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (FRD-903), its salts and its acyl halides	-	n.a.
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	n.a.
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	n.a.
204	Diisohexyl phthalate	71850-09-4	n.a.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	n.a.
206	1-vinylimidazole	1072-63-5	n.a.
207	2-methylimidazole	693-98-1	n.a.
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	n.a.
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	n.a.

Test Plan II

No.	Name of the compound	CAS	Report Limit
1	2,4-Dinitrotoluene	121-14-2	0.1%
2	2-Ethoxyethanol	110-80-5	0.1%
3	2-Methoxyethanol	109-86-4	0.1%
4	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.1%
5	Musk xylene	81-15-2	n.a.
6	Acrylamide	79-06-1	0.1%
7	Alkanes, C 10 – C 13, chloro-	85535-84-8	0.1%
8	Aluminosilicate refractory ceramic fibres ^(a)	-	n.a.
9	Ammonium dichromate	7789-09-5	0.1%
10	Anthracene	120-12-7	0.1%
11	Anthracene oil	90640-80-5	0.1% ¹⁾
12	Anthracene oil, anthracene paste	90640-81-6	0.1% ¹⁾
13	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.1% ¹⁾
14	Anthracene oil, anthracene paste, distn.lights	91995-17-4	0.1% ¹⁾
15	Anthracene oil, anthracene-low	90640-82-7	0.1% ¹⁾
16	Benzyl butyl phthalate (BBP)	85-68-7	0.1%
17	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.1%
18	Bis(tributyltin)oxide (TBTO)	56-35-9	0.1%
19	Boric acid	10043-35-3 11113-50-1	0.1%
20	Chromic and Dichromic acid, oligomers of chromic and dichromic acid	7738-94-5 13530-68-2	0.1%
21	Chromium trioxide	1333-82-0	0.1%
22	Cobalt dichloride	7646-79-9	0.1%
23	Cobalt carbonate	513-79-1	0.1%
24	Cobalt diacetate	71-48-7	0.1%
25	Cobalt dinitrate	10141-05-6	0.1%
26	Cobalt sulphate	10124-43-3	0.1%
27	Diarsenic pentaoxide	1303-28-2	0.1%
28	Diarsenic trioxide	1327-53-3	0.1%
29	Dibutyl phthalate (DBP)	84-74-2	0.1%
30	Diisobutyl phthalate (DiBP)	84-69-5	0.1%
31	Disodium tetraborate, anhydrous	1330-43-4	0.1%
	pentahydrate	12179-04-3	0.1%
	decahydrate	1303-96-4	0.1%
32	Hexabromocyclododecane (HBCDD)	25637-99-4 (*)	0.1%
33	Lead chromate	7758-97-6	0.1%
34	Lead chromate molybdate sulphate red	12656-85-8	0.1%
35	Lead hydrogen arsenate	7784-40-9	0.1%
36	Lead sulphochromate yellow	1344-37-2	0.1%
37	Pitch, coal tar, high temp.	-	n.a.
38	Potassium chromate	7789-00-6	0.1%
39	Potassium dichromate	7778-50-9	0.1%

40	Sodium chromate	7775-11-3	0.1%
41	Sodium dichromate	7789-12-0 / 10588-01-9	0.1%
42	Tetraboron disodium heptaoxide, hydrate	12267-73-1	0.1% ²⁾
43	Trichlorethylene	79-01-6	0.1%
44	Triethyl arsenate	15606-95-8	0.1%
45	Tris(2-chlorethyl)phosphate (TCEP)	115-96-8	0.1%
46	Zirconia Aluminosilicate refractory ceramic fibres ^(b)	-	n.a.
47	2-Ethoxyethyl acetate	111-15-9	0.1%
48	1,2,3-Trichloropropane	96-18-4	0.1%
49	1-Methyl-2-pyrrolidone	872-50-4	0.1%
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.1%
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.1%
52	Strontium chromate		0.1%
53	Hydrazine	7803-57-8/ 302-01-2	n.a.
54	Lead styphnate	15245-44-0	0.1%
55	Lead diazide, Lead azide	13424-46-9	0.1%
56	Lead dipicrate	6477-64-1	0.1%
57	Phenolphthalein	77-09-8	n.a.
58	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.1%
59	N,N-dimethylacetamide (DMAC)	127-19-5	0.1%
60	Trilead diarsenate	3687-31-8	0.1%
61	Calcium arsenate	7778-44-1	0.1%
62	Arsenic acid	7778-39-4	0.1%
63	Bis(2-methoxyethyl) ether (Diglyme)	111-96-6	0.1%
64	1,2-Dichloroethane	107-06-2	0.1%
65	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol (Octylphenol)	140-66-9	0.1%
66	2-Methoxyaniline; o-Anisidine (Anisidine)	90-04-0	0.1%
67	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	0.1%
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.1%
69	Pentazinc chromate octahydroxide	49663-84-5	0.1%
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	0.1%
71	Dichromium tris(chromate)	24613-89-6	0.1%
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.1%
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.1%
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	n.a. ³⁾
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.1%
76	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	n.a. ³⁾
77	[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	n.a. ³⁾
78	Diboron trioxide	1303-86-2	0.1%
79	Formamide	75-12-7	0.1%
80	Lead(II) bis(methanesulfonate)	17570-76-2	0.1%

81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.1%
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	n.a.
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	n.a. ³⁾
84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	n.a.
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.1%
86	Pentacosafuorotridecanoic acid	72629-94-8	n.a.
87	Tricosafuorododecanoic acid	307-55-1	n.a.
88	Henicosafuoroundecanoic acid	2058-94-8	n.a.
89	Heptacosafuorotetradecanoic acid	376-06-7	n.a.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	n.a.
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] ^(c)	85-42-7, 13149-00-3, 14166-21-3	0.1%
92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] ^(d)	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.1%
93	4-Nonylphenol, branched and linear ^(e)	-	0.1%
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated ^(f)	-	0.1%
95	Methoxyacetic acid	625-45-6	n.a.
96	N,N-dimethylformamide	68-12-2	0.1%
97	Dibutyltin dichloride (DBTC)	683-18-1	0.1%
98	Lead monoxide (Lead oxide)	1317-36-8	0.1%
99	Orange lead (Lead tetroxide)	1314-41-6	0.1%
100	Lead bis(tetrafluoroborate)	13814-96-5	0.1%
101	Trilead bis(carbonate)dihydroxide	1319-46-6	0.1%
102	Lead titanium trioxide	12060-00-3	0.1%
103	Lead titanium zirconium oxide	12626-81-2	0.1%
104	Silicic acid, lead salt	11120-22-2	0.1%
105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped ^(g)	68784-75-8	0.1%
106	1-bromopropane (n-propyl bromide)	106-94-5	0.1%
107	Methyloxirane (Propylene oxide)	75-56-9	n.a.
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.1%
109	Diisopentylphthalate (DIPP)	605-50-5	0.1%
110	N-pentyl-isopentylphthalate	776297-69-9	0.1%
111	1,2-diethoxyethane	629-14-1	n.a.
112	Acetic acid, lead salt, basic	51404-69-4	0.1%
113	Lead oxide sulfate	12036-76-9	0.1%
114	[Phthalato(2-)]dioxotrilead	69011-06-9	0.1%
115	Dioxobis(stearato)trilead	12578-12-0	0.1%
116	Fatty acids, C16-18, lead salts	91031-62-8	0.1%
117	Lead cyanidate	20837-86-9	0.1%
118	Lead dinitrate	10099-74-8	0.1%
119	Pentalead tetraoxide sulphate	12065-90-6	0.1%
120	Pyrochlore, antimony lead yellow	8012-00-8	0.1%

121	Sulfurous acid, lead salt, dibasic	62229-08-7	0.1%
122	Tetraethyllead	78-00-2	0.1%
123	Tetralead trioxide sulphate	12202-17-4	0.1%
124	Trilead dioxide phosphonate	12141-20-7	0.1%
125	Furan	110-00-9	n.a.
126	Diethyl sulphate	64-67-5	n.a.
127	Dimethyl sulphate	77-78-1	n.a.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	n.a.
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	n.a.
130	4,4'-methylenedi-o-toluidine	838-88-0	0.1%
131	4,4'-oxydianiline and its salts	101-80-4	0.1%
132	4-aminoazobenzene	60-09-3	n.a.
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	95-80-7	0.1%
134	6-methoxy- <i>m</i> -toluidine (p-cresidine)	120-71-8	n.a.
135	Biphenyl-4-ylamine	92-67-1	n.a.
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	n.a.
137	o-toluidine	95-53-4	n.a.
138	N-methylacetamide	79-16-3	n.a.
139	Pentadecafluorooctanoic acid (PFOA)	335-67-1	n.a.
140	Cadmium oxide	1306-19-0	0.1%
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	n.a.
142	Cadmium	7440-43-9	0.1%
143	4-Nonylphenol, branched and linear, ethoxylated h)	--	0.1%
144	Dipentyl phthalate (DPP)	131-18-0	0.1%
145	Cadmium sulphide	1306-23-6	0.1%
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	n.a.
147	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	n.a.
148	Di-n-hexyl phthalate (DnHP)	84-75-3	0.1%
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	n.a.
150	Lead di(acetate)	301-04-2	0.1%
151	Triethyl phosphate	25155-23-1	0.1%
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.1%
153	Cadmium chloride	10108-64-2	0.1%
154	Sodium perborate; perboric acid, sodium salt	15120-21-5 11138-47-9 10332-33-9 13517-20-9 10486-00-7 37244-98-7 90568-23-3 125022-34-6	0.1%
155	Sodium peroxometaborate	7632-04-4 12040-72-1 10332-33-9 13517-20-9 10486-00-7	0.1%

		37244-98-7	
156	Cadmium fluoride	7790-79-6	0.1%
157	Cadmium sulphate	10124-36-4; 31119-53-6	0.1%
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.1%
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.1%
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.1%
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)	-	n.a.
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	0.1%
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] i)	-	n.a.
164	1,3-propanesultone	1120-71-4	0.1%
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.1%
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.1%
167	Nitrobenzene	98-95-3	0.1%
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	n.a.
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.1%
170	p-(1,1-dimethylpropyl)phenol	80-46-6	0.1%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	n.a.
172	4-Heptylphenol, branched and linear ^①	-	0.1%
173	4,4'-isopropylidenediphenol	80-05-7	0.1%
174	Perfluorohexane-1-sulphonic acid and its salts	-	n.a.
175	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)	-	0.1%
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof	-	0.1%
177	Chrysene	218-01-9, 1719-03-5	0.1%
178	Cadmium nitrate	10022-68-1, 10325-94-7	0.1%
179	Cadmium hydroxide	21041-95-2	0.1%
180	Cadmium carbonate	513-78-0	0.1%
181	Benz[a]anthracene	56-55-3, 1718-53-2	0.1%

182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	0.1%
183	Benzo[ghi]perylene	191-24-2	0.1%
184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.1%
185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.1%
186	Disodium octaborate	12008-41-2	0.1%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.1%
188	Ethylenediamine (EDA)	107-15-3	0.1%
189	Lead	7439-92-1	0.1%
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.1%
191	Terphenyl, hydrogenated	61788-32-7	n.a.
192	Pyrene	129-00-0; 1718-52-1	0.1%
193	Phenanthrene	85-01-8	0.1%
194	Fluoranthene	206-44-0; 93951-69-0	0.1%
195	Benzo[k]fluoranthene	207-08-9	0.1%
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.1%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.1%
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.1%
199	4-tert-butylphenol	98-54-4	0.1%
200	2-methoxyethyl acetate	110-49-6	0.1%
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (FRD-903), its salts and its acyl halides	-	0.1%
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.1%
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.1%
204	Diisohexyl phthalate	71850-09-4	0.1%
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	n.a
206	1-vinylimidazole	1072-63-5	n.a
207	2-methylimidazole	693-98-1	n.a
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	n.a
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	n.a

(n.a.: not analyzed; the test was not carried out because concerning the material it could be accepted that this SVHC-compound is not present)

- a. oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges; fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm); alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
- b. oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges; fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm); alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
- c. [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].
- d. [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]
- e. [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]
- f. [covering well-defined substances and UVCB substances, polymers and homologues]
- g. [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]
- h. 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.
- i. [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]
- j. [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]

(*) 25637-99-4, 3194-55-6 and all major diastereoisomers 134237-50-6, 134237-51-7, 134237-52-8

- ¹ analysed as Anthracene, Phenanthrene, Fluoranthene, Pyrene and Fluorene.
- ² value is depending on the number of hydration water in the substance; in the anhydrous form the amount has the smallest value and is increasing with the number of hydration water
- ³ if the concentration of the impurities Michler's ketone or Michler's base is equal to or higher than 0.1%

Current ECHA-homepage (REACH-SVHCs):

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp#download

Test Method lists

Parameter	Unit	MDL	Test method
REACH-SVHC-Substances Group 1 (Elements of inorganic and organic compounds)			
Arsenic	mg/kg	20	EN ISO 11885
Lead	mg/kg	20	EN ISO 11885
Cobalt	mg/kg	20	EN ISO 11885
Chromium	mg/kg	20	EN ISO 11885
Boron	mg/kg	20	EN ISO 11885
Tin	mg/kg	20	EN ISO 11885
Cadmium	mg/kg	20	EN ISO 11885
Chromium VI	mg/kg	20	IEC 62321
REACH-SVHC-Substances Group 2 (organic compounds)			
Diisobutyl phthalate (DiBP)	mg/kg	100	ISO 14389
Dibutyl phthalate (DBP)	mg/kg	100	ISO 14389
Bis(2-methoxyethyl)phthalate (DMEP)	mg/kg	100	ISO 14389
Diisopentylphthalat (DIPP)	mg/kg	100	ISO 14389
N-pentyl-Isopentylphthalat (PIPP)	mg/kg	100	ISO 14389
Benzyl butyl phthalate (BBP)	mg/kg	100	ISO 14389
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	100	ISO 14389
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters (DHNUP)	mg/kg	100	ISO 14389
Diisooheptyl phthalate (DIHP)	mg/kg	100	ISO 14389
1,2-Benzendicarboxylic acid, dipentylester, branched and linear	mg/kg	100	ISO 14389
Dipentyl phthalate (DPP)	mg/kg	100	ISO 14389
Di-n-hexyl phthalate (DnHP)	mg/kg	100	ISO 14389
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	mg/kg	100	ISO 14389
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- Benzenedicarboxylicacid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	mg/kg	200	ISO 14389
Dicyclohexyl phthalate (DCHP)	mg/kg	100	ISO 14389
Diisohexyl phthalate	mg/kg	100	ISO 14389
Acrylamide	mg/kg	100	Inhouse method / GC-MS
2,4-Dinitrotoluene	mg/kg	100	Inhouse method / GC-MS
Bis(tributyltin)oxide (TBTO)	mg/kg	100	Inhouse method / GC-MS

Cyclohexane-1,2-dicarboxylic anhydride (HHPA)	mg/kg	100	Inhouse method / GC-MS
O-Anisidine	mg/kg	100	Inhouse method / GC-MS
Tris(2-chlorethyl)phosphate (TCEP)	mg/kg	100	Inhouse method / GC-MS
Hexahydromethylphthalic anhydride (MHHPA)	mg/kg	100	Inhouse method / GC-MS
4,4'-Diaminodiphenylmethane (MDA)	mg/kg	100	Inhouse method / GC-MS
technical MDA	mg/kg	100	Inhouse method / GC-MS
4-Nonylphenol, branched and linear	mg/kg	100	Inhouse method / GC-MS
4-Tert-Octylphenol	mg/kg	100	Inhouse method / GC-MS
p-(1,1-dimethylpropyl)phenol	mg/kg	100	Inhouse method / GC-MS
4-Heptylphenol	mg/kg	100	Inhouse method / GC-MS
4,4'-isopropylidenediphenol	mg/kg	100	Inhouse method / GC-MS
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	mg/kg	100	Inhouse method / GC-MS
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	mg/kg	100	Inhouse method / GC-MS
4,4'-methylenedi-o-toluidine (MBOT)	mg/kg	100	Inhouse method / GC-MS
4,4'-oxidianiline and its salts	mg/kg	100	Inhouse method / GC-MS
tetramethymethylenedianiline (Michlers base)	mg/kg	100	Inhouse method / GC-MS
4,4 dimethylaminobenzophenon (Michlers Ketone)	mg/kg	100	Inhouse method / GC-MS
Hexabromocyclododecane (HBCDD)	mg/kg	100	Inhouse method / GC-MS
4-methyl-m-phenylenediamine	mg/kg	100	Inhouse method / GC-MS
Acenaphthylene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Anthracene	mg/kg	100	AfPS GS 2014.01 / GC-MS
4,4'-Methylen-Bis-(2-Chlor-aniline)	mg/kg	100	Inhouse method / GC-MS
Phenanthrene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Fluoranthene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Pyrene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Fluorene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Carbazole	mg/kg	100	Inhouse method / GC-MS
Acenaphthene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Benzo[def]chrysene (Benzo[a]pyrene)	mg/kg	100	AfPS GS 2014.01 / GC-MS
Benz[a]anthracene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Chrysene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Benzo[k]fluoranthene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Dibutyltin dichloride (DBTC)	mg/kg	100	DIN ISO 23161
Trixylyl phosphate	mg/kg	100	Inhouse method / GC-MS
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	mg/kg	100	Inhouse method / GC-MS
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	mg/kg	100	Inhouse method / GC-MS

2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	mg/kg	100	Inhouse method / GC-MS
1,3-propanesultone	mg/kg	100	Inhouse method / GC-MS
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	mg/kg	100	Inhouse method / GC-MS
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	mg/kg	100	Inhouse method / GC-MS
Bis(pentylbromophenyl)ether	mg/kg	100	IEC 62321
Benzo[ghi]perylene	mg/kg	100	AfPS GS 2014.01 / GC-MS
Trimellitic anhydride; TMA	mg/kg	100	Inhouse method / GC-MS
Terphenyl, hydrogenated	mg/kg	100	Inhouse method / GC-MS
Benzylidene Camphor	mg/kg	100	Inhouse method / GC-MS
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	mg/kg	100	Inhouse method / GC-MS
4-tert-butylphenol	mg/kg	100	Inhouse method / GC-MS
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 119313-12-1	mg/kg	100	Inhouse method / GC-MS
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 71868-10-5	mg/kg	100	Inhouse method / GC-MS
1,2-Dichloroethane	mg/kg	200	Inhouse method / GC-MS
2-Methoxyethanol	mg/kg	200	Inhouse method / GC-MS
Trichloroethylene	mg/kg	200	Inhouse method / GC-MS
1,2-dimethoxyethane (EGDME)	mg/kg	200	Inhouse method / GC-MS
2-Ethoxyethanol	mg/kg	200	Inhouse method / GC-MS
Formamide	mg/kg	200	Inhouse method / GC-MS
N,N-Dimethylacetamide (DMAC)	mg/kg	200	Inhouse method / GC-MS
Ethoxyethylacetate	mg/kg	200	Inhouse method / GC-MS
1,2,3-Trichloropropane	mg/kg	200	Inhouse method / GC-MS
Bis(2-methoxyethyl)ether (Diglyme)	mg/kg	200	Inhouse method / GC-MS
1-Methyl-2-pyrrolidone	mg/kg	200	Inhouse method / GC-MS
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	mg/kg	200	Inhouse method / GC-MS
1-Bromopropane	mg/kg	200	Inhouse method / GC-MS
2-methoxyethyl acetate	mg/kg	100	Inhouse method / GC-MS
Ethylenediamine (EDA)	mg/kg	200	Inhouse method / GC-MS
Alkanes, C10-13. chloro (Short chained chlorinated Paraffins)	mg/kg	100	Inhouse method / GC-ECD
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene	mg/kg	100	Inhouse method / GC-MS
REACH-SVHC-Substances Group 3 (Colours)			
4-Aminoazobenzene	mg/kg	100	Inhouse method / GC-MS

6-methoxy-m-toluidine	mg/kg	100	Inhouse method / GC-MS
Biphenyl-4-ylamine	mg/kg	100	Inhouse method / GC-MS
o-aminoazotoluene	mg/kg	100	Inhouse method / GC-MS
o-Toluidine	mg/kg	100	Inhouse method / GC-MS
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	mg/kg	100	DIN 54231 *)
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)	mg/kg	100	DIN 54231 *)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	mg/kg	100	
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	mg/kg	100	DIN 54231 *)
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	mg/kg	100	DIN 54231 *)
α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	mg/kg	100	DIN 54231 *)

*) Analysis were carried out at a partner laboratory

REACH-SVHC-Substances Group 4 (Solvents)

Methoxyacetic acid	mg/kg	100	QMA 2001.1500 / GC-MS
Diethoxyethane	mg/kg	100	QMA 2001.1500 / GC-MS
N,N'-Dimethylformamide	mg/kg	100	QMA 2001.1495 / GC-MS
Methyloxirane	mg/kg	100	QMA 2001.1495 / GC-MS

REACH-SVHC-Substances Group 5 (Fluorocarboxylic acids)

Fluor	mg/kg	100	EN14582
Pentacosafuorotridecanoic acid	mg/kg	100	LC-MS/MS *)
Tricosafuorododecanoic acid	mg/kg	100	LC-MS/MS *)
Henicosafuoroundecanoic acid	mg/kg	100	LC-MS/MS *)
Heptacosafuorotetradecanoic acid	mg/kg	100	LC-MS/MS *)
Pentadecafluorooctanoic acid (PFOA)	mg/kg	100	LC-MS/MS *)
Ammonium pentadecafluorooctanoate (APFO)	mg/kg	100	LC-MS/MS *)
Perfluorononan-1-oic-acid and its sodium and ammonium salts	mg/kg	100	LC-MS/MS *)
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (FRD-903), its salts and its acyl halides	mg/kg	100	LC-MS/MS *)

*) Analysis were carried out at a partner laboratory

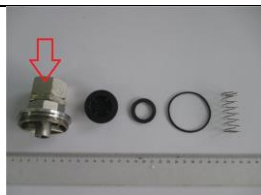
REACH-SVHC-Substances Group 6 (Educts)			
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	mg/kg	100	QMA 2001.1495 / GC-MS
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	mg/kg	100	QMA 2001.1495 / GC-MS
Imidazolidine-2-thione	mg/kg	400	GC-MS
REACH-SVHC-Substances Group 7 (special Substances)			
Phenolphthalein	mg/kg	100	Inhouse method / GC-MS
Hydrazine	mg/kg	100	Inhouse method / GC-MS
Musk Xylenes	mg/kg	100	Inhouse method / GC-MS
Aluminosilicate Refractory Ceramic Fibres	mg/kg	1000	Inhouse method / ISO 11885
Zirconia Aluminosilicate, Refractory Ceramic Fibres	mg/kg	1000	Inhouse method / ISO 11885
Pitch, coal tar, high temp.	mg/kg	100	AfPS GS 2014.01 / GC-MS
Furan	mg/kg	100	Inhouse method / GC-MS
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	mg/kg	100	Inhouse method / GC-MS
Diethyl sulphate	mg/kg	100	Inhouse method / GC-MS
Dimethyl sulphate	mg/kg	100	Inhouse method / GC-MS
N-Methylacetamide	mg/kg	100	Inhouse method / GC-MS
Dinoseb	mg/kg	100	Inhouse method / GC-MS
Diazene-1,2-dicarboxamide	mg/kg	100	Inhouse method / GC-MS
Nitrobenzene	mg/kg	100	Inhouse method / GC-MS

Comments on test results:

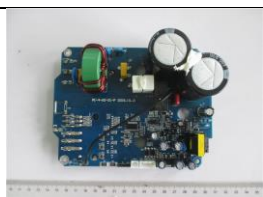
According to the judgement of the European Court of Justice of the European Union regarding SVHC in articles (Case C-106/14) of September 10th, 2015, the threshold value of 0.1% is related to each incorporated article as component of a product.

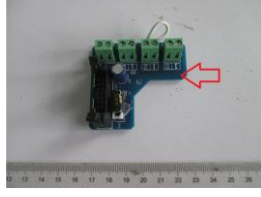
- As the content of **Boron** is below 60 mg/kg, none of the SVHC-compounds containing Boron (Boric acid, Disodium tetraborate anhydrous, Disodium tetraborate pentahydrate, Disodium tetraborate decahydrate, Diborontrioxide, Sodium perborate, Sodium peroxometaborate or Disodium octaborate) could be present in a concentration above 0.1% in the article.
- As the content of **Tin** is below 120 mg/kg, or none of the tinorganic compounds could be analysed, the SVHC-compounds containing Tin (Bis(tributyltin)oxide, Dibutyltin dichloride, 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (MOTE)) could not be present in a concentration above 0.1% in the article.
- As the content of **Fluor** is below 600 mg/kg, none of the SVHC-compounds Pentacosafuorotridecanoic acid, Tricosafuorododecanoic acid, Henicosafuoroundecanoic acid, Heptacosafuorotetradecanoic acid, Pentadecafluorooctanoic acid (PFOA) or Ammonium pentadecafluorooctanoate (APFO) could be present in a concentration above 0.1% in the article.
- As the content of **Chlorine** is below 650 mg/kg, Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) could not be present in a concentration above 0.1% in the article.
- As the content of **Arsenic** is below 150 mg/kg, none of the SVHC-compounds containing Arsenic (Triethyl arsenate, Diarsenic pentoxide, Diarsenic trioxide, Lead hydrogen arsenate, Trilead diarsenate, Calcium arsenate, Arsenic acid) could be present in a concentration above 0.1% in the article.
- As the content of **Lead** is below 250 mg/kg, none of the SVHC-compounds containing Lead (Lead chromate, Lead chromate molybdate sulphate red and Lead sulphochromate yellow, Lead diazide, Lead azide, Lead dipicrate, Trilead diarsenate, Lead styphnate, Lead(II) bis(methanesulfonate), Lead bis(tetrafluoroborate), Lead cyanamidate, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate or Lead di(acetate)) could be present in a concentration above 0.1% in the article.
- As the content of **Hexavalent Chromium** is below 80 mg/kg, none of the SVHC-Substances containing Chromate (Chromic and Dichromic acid and oligomers, Lead chromate, Chromic trioxide, Ammonium dichromate, Sodium dichromate, Sodium chromate, Potassium chromate, Potassium dichromate and Strontium chromate, Pentazinc chromate octahydroxide, Potassium hydroxyoctaoxodizincatedichromate, Dichromium tris(chromate)) could be present in a concentration above 0.1% (above 1000 mg/kg) in the article.
- As the content of **Cobalt** is below 300 mg/kg none of the SVHC-compounds containing Cobalt (Cobalt dichloride, Cobalt(II) carbonate, Cobalt(II) diacetate, Cobalt(II) dinitrate, Cobalt(II) sulphate) could be present in a concentration above 0.1% in the article.

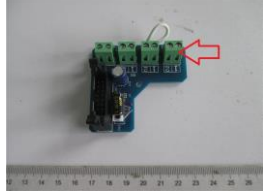
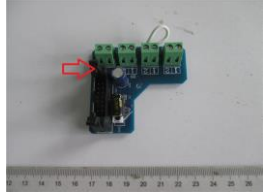
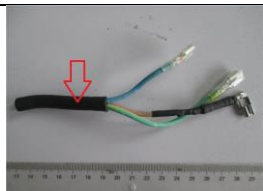
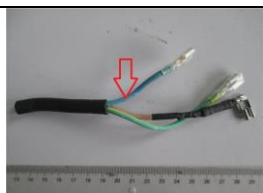
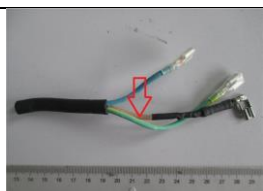
- As the content of **Cadmium** is below 450 mg/kg, none of the SVHC-compounds containing Cadmium (Cadmium, Cadmium oxide, Cadmium sulphide, Cadmium chloride, Cadmium sulphate, Cadmium fluoride, Cadmium carbonate, Cadmium hydroxide and Cadmium nitrate) could be present in a concentration above 0.1% in the article.
- As the amount (sum) of **Anthracene, Phenanthrene, Fluoranthene, Pyrene und Fluorene** is below 100 mg/kg, none of the PAH-containing REACH-SVHC-Substances (Anthracene oil; Anthracene oil, anthracene paste; Anthracene oil, anthracene paste, anthracene fraction; Anthracene oil, anthracene paste, distn.lights; Anthracene oil, anthracene-low) can be present in the article in a concentration above 0.1 %.

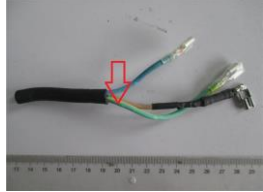
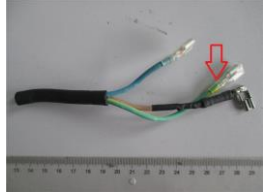
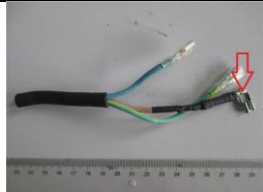
Sample No.	Description	Photo
003	black metal	
004	silvery metal	
007	silvery metal	
010	black rubber	
012	silvery metal	
013	silvery metal	
014	colorful metal	
015	silvery metal	

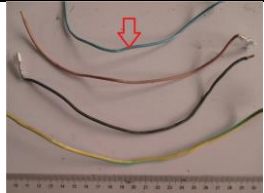
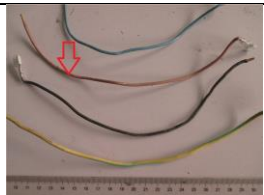
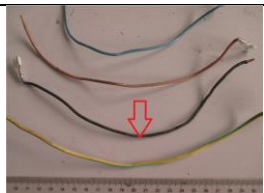
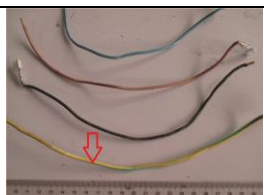
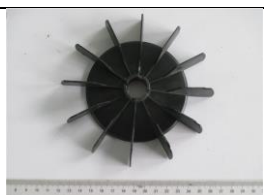
016	silvery metal	
017	silvery metal	
018	silvery metal	
019	silvery metal	
020	white plastic	
021	golden metal	
022	white plastic	
023	silvery metal	

024	silvery metal	
025	black plastic	
026	silvery metal	
028	black plastic	
029	blue PCB	
030	black plastic	
031	grey plastic	
032	blue PCB	

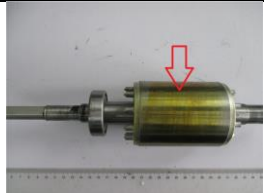
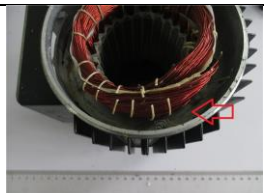
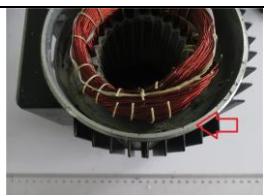
033	black plastic	
034	black plastic	
035	black plastic	
036	black plastic	
037	black plastic	
038	black rubber	
039	black rubber	
040	blue PCB	

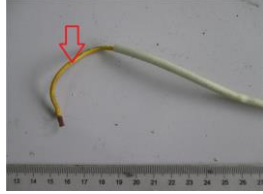
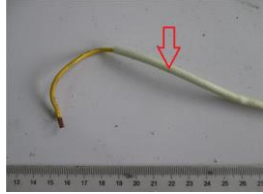
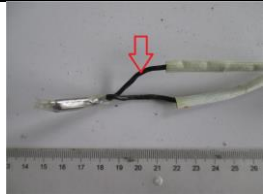
041	green plastic	
042	black plastic	
043	silvery metal	
044	silvery metal	
045	black plastic	
046	black plastic	
047	blue plastic	
048	brown plastic	

049	yellow-green plastic	
050	transparent plastic	
051	silvery metal	
052	silvery metal	
053	silvery metal	
054	black plastic	
055	black plastic	
056	brown plastic	

057	white plastic	
058	blue plastic	
059	black plastic	
060	blue plastic	
061	brown plastic	
062	black plastic	
063	yellow-green plastic	
064	black plastic	

065	black metal	
066	silvery metal	
067	silvery metal	
068	silvery metal	
069	beige plastic	
070	silvery metal	
073	silvery metal	
074	black plastic	

075	black rubber	
076	silvery metal	
077	silvery metal	
078	silvery metal	
079	copper-colored metal	
080	silvery metal	
081	silvery metal	
082	red plastic	

083	yellow plastic	
084	white fibre	
085	black plastic	

---End of Report---

Please note that every statement made in this report is only valid for the samples tested and reported herein. Samples were provided by applicant. Without consent of the testing organization, this report shall not be reproduced except in full and the clients shall not be unauthorized use of test results for improper propaganda. DEKRA declines any responsibility with deviations required by the customer that may affect the validity of result. The information is provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it. The measurement result is considered in conformance with the requirement if it is within the prescribed limit. It is not necessary to calculate the uncertainty associated with the measurement result, unless the specification, standard or customer have special requirements. This report is not used for social proof function in China market.

Annex

The information in annex is given by client, only for reference.

Submitted Model : MH170 3MF

Reference Model :

M*xyz#p (*=H,HB,HS,HP,V,VB,VS,VP,VL,VLB,VLS,VLP ; x=60,90,120,145,170; y=2M,3M,4M,5M,6M,7M,8M,9M,10M; z=1L,1LSS,2L,2LSS,19L,19LSS,24L,24LSS,50L,50LSS,60L,60LSS,100L,100LSS or null; #=E,F or null p=T or null)
L*xyz#p (*=H,S x=60,90,120,145,170; y=2M,3M,4M,5M,6M,7M,8M,9M,10M; z=1L,1LSS,2L,2LSS,19L,19LSS,24L,24LSS,50L,50LSS,60L,60LSS,100L,100LSS or null; #=E,F or null p=T or null)
MHP 4M
JSP*XY#p (*=E,F or null X=400,600,800,1000,1200,1500,1500F; Y=H,HS,S,A,G or null ; #=1L,1LSS,2L,2LSS,19L,19LSS,24L,24LSS,50L,50LSS,60L,60LSS,100L,100LSS or null p=T or null)
MAP100 MAP200
CPM170 CPM190
MFxy (x=60,65,70,80,90,100, y=B or null)
SPO55p SPO65p SPO85p SPO105p (p=T or null)
POLy (y=600,800,1000,1500,2000,2500)
WPOLx (x=600,800,100,1200)
WPLx (x=600,800,100,1200)
IDB-35 IDB-50
2CP2000 KG115 KG130 KG150