

Test Report No.

RS 5022337

Date: February 17, 2021

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Oriental Copper Co.,Ltd.
27 th FL, Bangkok Insurance / Y.W.C.A. Building , 25
Sathon Rd. Thungmahamek , Sathon Bangkok 10120 Thailand

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

Sample Name	:	Cu-OFE Copper Busbar
Sample Description	:	Copper Busbar
Manufacturer/Vendor	:	Oriental Copper Co.,Ltd
Country of Origin	:	Thailand
Country of Destination	:	Domestic & Export

The following sample(s) was/were identified by SGS as:

SGS Sample No.	:	5022337
Sample Condition	:	Sample is contained in a plastic bag.
Quantity Submitted	:	1 pc
Sample Receiving Date	:	January 29, 2021
Testing Period	:	January 29, 2021 - February 17, 2021

Test Requested:

Two hundred and eleven (211) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before January 19, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH

Summary:

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

Signed for and on behalf of
SGS (Thailand) Ltd.



Patcharee Treeporncharoen
Laboratory manager - Chemical

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Remark:

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

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

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

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

3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

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Test Sample:

Sample Description: metal

Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

Test Result:

No.	Substance Name	CAS No./EC No.	RL (%)	Concentration (%)
-	All tested SVHC	-	-	ND

Note:

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

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

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

RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, titanium, silicon, sodium, strontium, zinc and zirconium respectively), except molybdenum RL = 0.0001%

3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

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Sample photo:



SGS authenticate the photo on original report only

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Appendix

No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008			
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	0.010
2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4	0.010
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.010
4	Anthracene	120-12-7/ 204-371-1	0.010
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	0.010
6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0	0.010
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.010
8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.001
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	0.001
10	Diarsenic trioxide*	1327-53-3/ 215-481-4	0.001
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.010
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)	0.010
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.001
14	Sodium dichromate*	7789-12-0/ 10588-01-9/ 234-190-3	0.001
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010			
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.010
17	Anthracene oil*	90640-80-5/ 292-602-7	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.010
19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.010
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.010
21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.010
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.010
23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.001
24	Lead chromate*	7758-97-6/ 231-846-0	0.001
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7	0.001
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	0.010
27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010			
28	Acrylamide	79-06-1/ 201-173-7	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010			
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.001
30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.001
31	Disodium tetraborate, anhydrous*	1303-96-4/ 1330-43-4/ 12179-04-3/ 215-540-4	0.001
32	Potassium chromate*	7789-00-6/ 232-140-5	0.001
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.001
34	Sodium chromate*	7775-11-3/ 231-889-5	0.001
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.001

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No.	Substance Name	CAS No./ EC No.	RL (%)
36	Trichloroethylene	79-01-6/ 201-167-4	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010			
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.010
38	2-Methoxyethanol	109-86-4/ 203-713-7	0.010
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	0.001
40	Chromium trioxide*	1333-82-0/ 215-607-8	0.001
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.001
42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.001
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.001
44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011			
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.010
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1	0.010
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	0.010
48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.010
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.010
50	Hydrazine	7803-57-8/ 302-01-2/ 206-114-9	0.010
51	Strontium chromate*	7789-06-2/ 232-142-6	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011			
52	1,2-Dichloroethane	107-06-2/ 203-458-1	0.010
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4/ 202-918-9	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.010
55	4-tert-Octylphenol	140-66-9/ 205-426-2	0.010
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001
57	Arsenic acid*	7778-39-4/ 231-901-9	0.001
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	0.010
59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6	0.010
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.001
61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2	0.001
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	0.010
63	Lead diazide*	13424-46-9/ 236-542-1	0.001
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.001
65	Lead styphnate*	15245-44-0/ 239-290-0	0.001
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.010
67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0	0.001
68	Phenolphthalein	77-09-8/ 201-004-7	0.010
69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9/ 234-329-8	0.001
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.001
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012			
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	0.010
73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9/ 208-953-6	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.010
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.010
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.010
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2	0.010
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.001
79	Formamide	75-12-7/ 200-842-0	0.010
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.001
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.010
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	0.010
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.010
84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6/ 423-400-0	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012			
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5	0.001
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	0.010
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.010
88	1-Bromopropane	106-94-5/ 203-445-0	0.010
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.010
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.010
91	4,4'-Methylenedi-o-toluidine	838-88-0/ 212-658-8	0.010
92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.010
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.010
94	4-Methyl-m-phenylenediamine	95-80-7/ 202-453-1	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
95	4-Nonylphenol, branched and linear	-	0.010
96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	0.010
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	0.001
98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.010
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.010
100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.010
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	0.010
102	Diethyl sulphate	64-67-5/ 200-589-6	0.010
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.010
104	Dimethyl sulphate	77-78-1/ 201-058-1	0.010
105	Dinoseb	88-85-7/ 201-861-7	0.010
106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8	0.001
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	0.001
108	Furan	110-00-9/ 203-727-3	0.010
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	0.010
110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	0.010
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 38-009-9	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1	0.010
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	0.001
114	Lead cyanamidate*	20837-86-9/ 244-073-9	0.001
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.001
116	Lead monoxide*	1317-36-8/ 215-267-0	0.001
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.001
118	Lead tetroxide*	1314-41-6/ 215-235-6	0.001
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.001
120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.001
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.010
122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.010
123	N-Methylacetamide	79-16-3/ 201-182-6	0.010
124	N-Pentyl-isopentylphthalate	776297-69-9/-	0.010
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.010
126	o-Toluidine	95-53-4/ 202-429-0	0.010
127	Pentacosfluorotridecanoic acid	72629-94-8/ 276-745-2	0.010
128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.001
129	Propylene oxide	75-56-9/ 200-879-2	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.001
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.001
132	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.001
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.001
134	Tetraethyllead*	78-00-2/ 201-075-4	0.001
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.001
136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.010
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.001
138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013			
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.010
140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.010
141	Cadmium	7440-43-9/ 231-152-8	0.001
142	Cadmium oxide*	1306-19-0/ 215-146-2	0.001
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.010
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013			
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.001
146	Dihexyl phthalate	84-75-3/ 201-559-5	0.010
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	0.010
148	Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 217-710-3	0.010
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
150	Lead di(acetate)*	301-04-2/ 206-104-4	0.001
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014			
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4/ 271-093-5	0.010
153	Cadmium chloride*	10108-64-2/ 233-296-7	0.001
154	Sodium perborate; perboric acid, sodium salt*	234-390-0; 239-172-9	0.001
155	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014			
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.010
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.010
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.010
159	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)	-	0.010
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.001
161	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.001
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun15, 2015			
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1/ 271-094-0; 272-013-1	0.010
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]	-	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,			
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.010
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.010
167	Nitrobenzene	98-95-3 / 202-716-0	0.010
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorodecanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4/ 206-801-3	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016			
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017			
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.010
171	4-Heptylphenol, branched and linear	-	0.010
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salt	335-76-2; 3830-45-3; 3108-42-7/ 206-400-3; 221-470-5	0.010
173	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201-280-9	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017			
174	Perfluorohexane-1-sulphonic acid and its salts	-	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2018			
175	Benz[a]anthracene	56-55-3; 1718-53-2/ 200-280-6	0.010
176	Cadmium carbonate*	513-78-0/ 208-168-9	0.001
177	Cadmium hydroxide*	21041-95-2/ 244-168-5	0.001
178	Cadmium nitrate*	10022-68-1; 10325-94-7/ 233-710-6	0.001
179	Chrysene	218-01-9; 1719-03-5/ 205-923-4	0.010
180	Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.01% w/w 4-heptylphenol, branched and linear]	-	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018			
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7/ 209-008-0	0.010
183	Benzo[ghi]perylene	191-24-2/ 205-883-8	0.010
184	Decamethylcyclopentasiloxane (D5)	541-02-6/ 208-764-9	0.010
185	Dicyclohexyl phthalate (DCHP)	84-61-7/ 201-545-9	0.010
186	Disodium octaborate*	12008-41-2/ 234-541-0	0.001
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6/ 208-762-8	0.010
188	Ethylenediamine (EDA)	107-15-3/ 203-468-6	0.010
189	Lead	7439-92-1/ 231-100-4	0.001
190	Octamethylcyclotetrasiloxane (D4)	556-67-2/ 209-136-7	0.010
191	Terphenyl, hydrogenated	61788-32-7/ 262-967-7	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2019			
192	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6/ 401-720-1	0.010
193	Benzo[k]fluoranthene	207-08-9/ 205-916-6	0.010
194	Fluoranthene	206-44-0/ 205-912-4	0.010
195	Phenanthrene	85-01-8/ 201-581-5	0.010
196	Pyrene	129-00-0/ 204-927-3	0.010
197	Undecafluorohexanoic acid and its ammonium salt	307-24-4; 21615-47-4/ 206-196-6; 244-479-6	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 16, 2019			
198	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	-	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)
199	2-Methoxyethyl acetate	110-49-6/ 203-772-9	0.010
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.01\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.010
201	4-tert-butylphenol	98-54-4/ 202-679-0	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 16, 2020			
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1/ 404-360-3	0.010
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5/ 400-600-6	0.010
204	Diisohexyl phthalate	71850-09-4/ 276-090-2	0.010
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization publish on Jun 25, 2020			
206	1-vinylimidazole	1072-63-5/ 214-012-0	0.010
207	2-methylimidazole	693-98-1/ 211-765-7	0.010
208	Butyl 4-hydroxybenzoate	94-26-8/ 202-318-7	0.010
209	Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4/ 245-152-0	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization publish on Jan 19, 2021			
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8/ 205-594-7	0.010
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	3648-18-8/ 222-883-3	0.010

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Note:

1. RL = Reporting Limit. All RL are based on homogenous material
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article. RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, titanium, silicon, sodium, strontium, zinc and zirconium respectively), except molybdenum RL = 0.0001%

*** End of Report ***

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