

# FLOORCO TRADING LTD.

## TEST REPORT

**SCOPE OF WORK**

FLOORCO ATWOOD & GL Engineered wood flooring

**REPORT NUMBER**

230822002SHF-012

**TEST DATE(S)**

2023-08-23 - 2023-10-13

**ISSUE DATE**

2023-11-01

**PAGES**

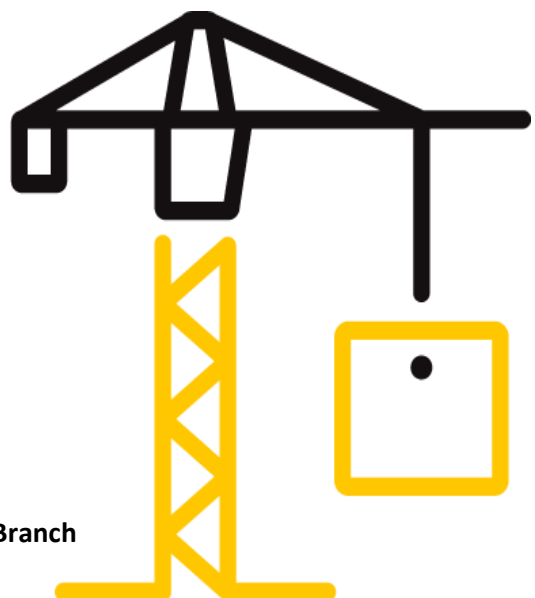
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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



## Test Report

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## Test Report

Issue Date: 2023-11-01 Intertek Report No. 230822002SHF-012  
 Applicant: FLOORCO TRADING LTD.  
 Address: 118 CARBINE ROAD, MT WELLINGTON  
 Attn: Terry SHI  
 Test Type: Performance test, samples provided by the applicant.

### Product Information

<b>Product Name</b>	FLOORCO ATWOOD & GL Engineered wood flooring	<b>Brand</b>	/
<b>Sample Description</b>	Good Condition	<b>Sample Amount</b>	48 pcs
		<b>Received Date</b>	2023-08-23
<b>Sample ID</b>	<b>Model</b>	<b>Specification</b>	
S230822002SHF.038~043	FLOORCO ATWOOD & GL	1900mm×190mm×14mm	

### Test Methods And Standards

<b>Test Standard</b>	EN 14354:2017 Annex A and B, With reference to EN 717-1:2004, With reference to CEN/TR 14823-2003, EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)
<b>Specification Standard</b>	EN 14342:2013, EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)
<b>Test Conclusion</b>	The samples were tested according to the above standards, and the results are shown in the following page.

**Note:**

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

### Report Authorized

*Sally Xie*  *Jackie Zhou*

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Name: Sally Xie Jackie Zhou  
 Title: Reviewer Project Engineer

# Test Report

Issue Date:

2023-11-01

Intertek Report No.

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**Test Items, Method and Results:**

EN 14342:2013			
Wood flooring - Characteristics, evaluation of conformity and marking - Essential Characteristics			
Clause	Requirement - Test	Result - Remark	Verdict
4	Requirement		
4.1	Dimensional characteristics Dimensional characteristics of a wood flooring product and parquet shall be in line with those defined in the relevant specific product standard.	Dimensional characteristics comply with product standard EN 14354:2017 Refer to page 6	P
4.3.1	Formaldehyde emission When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified into one of two classes: E1 or E2.	Class E1 Refer to page 7	P
4.3.2	Content of pentachlorophenol If the product contains raw material that may include PCP or when required, then the product shall be tested in accordance with CEN/TR 14823. In case the value of 5 ppm is exceeded, the indication "PCP > 5ppm" shall be declared. In the other case, it is necessary to declared PCP ≤ ppm.	< 5 ppm Refer to page 8	P
4.4	Release of other dangerous substances National regulations on dangerous substances may require verification and declaration on release, and sometimes content, of other dangerous substances, in addition to those dealt with in other clauses, when construction products covered by this standard are placed on those market.	Meet the requirement of EU REACH Regulation No 1907/2006 Article 33(1) by default when no SVHC exceeds 0.1% (w/w). Refer to page 9-18	P
4.5	Breaking strength If breaking strength of the wood flooring product and parquet is required, it shall be tested for the installation required according to EN 1533 depending on the risk, if any. The result shall be expressed and declared in terms of maximum load characteristic value, determined by using a static point load. The span of the product, as given in EN 1533 and associated with breaking strength value, shall be declared.	Test span: 600mm Breaking strength: 5064 N	—

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EN 14342:2013			
Wood flooring - Characteristics, evaluation of conformity and marking			
Clause	Requirement - Test	Result - Remark	Verdict
4.7	Thermal conductivity Shall be either determined and the value declared according to EN 12664 or given by using tabulated values related to density as shown in Table 2, in line with EN ISO 10456.	Mean temperature: 24 °C Temperature difference: 20 °C Thermal conductivity: 0.101 W/(m·K) Thermal Resistance: 0.142 (m <sup>2</sup> ·K)/W	—

# Test Report

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### Test Items, Method and Results:

Test Item: Determination of thickness, length, width, squareness, deviation from edge, straightness and cup, opening and lipping between elements

Test Method: EN 14354:2017 Annex A and B

Conditioning: Condition the test specimens at (23±2)°C and (50±5)% relative humidity to constant mass

Characteristics	Test results	Nominal value	Requirements
Thickness t of an element	$t_{max} - t_{min} : 0.08\text{mm}$ $t_{average} - t_{nominal} : 0.19\text{mm}$	14mm	$t_{max} - t_{min} \leq 0,50\text{ mm}$ $t_{average} - t_{nominal} \leq \pm 0,50\text{ mm}$
Length l of the top layer in the same package	$l_{max} - l_{min} : 0.26\text{mm/m}$ $l_{average} - l_{nominal} : 0.2\text{mm}$	1900mm	$l \leq 1500\text{ mm} : l_{max} - l_{min} \leq 0,50\text{mm}$ $l > 1500\text{ mm} : l_{max} - l_{min} \leq 0,30\text{mm/m}$ $l_{average} - l_{nominal} \leq 1\text{mm}$
Width w of the top layer in the same package	$w_{max} - w_{min} : 0.06\text{ mm}$ $w_{average} - w_{nominal} : -0.06\text{ mm}$	190mm	$w_{max} - w_{min} \leq 0,20\text{ mm}$ $w_{average} - w_{nominal} \leq 0,10\text{ mm}$
Deviation of squareness	0.13mm	-	$q_{max} \leq 0,20\text{ mm}$
Deviation from edge straightness of the top layer s	0.07mm/m	-	$s_{max} \leq 0,30\text{ mm/m}$
Cup $f_w$ in width direction	$f_{w\ max} : 0.05\%$ $f_{w\ average} : 0.05\%$	-	$ f_{w\ max}  \leq 0,20\%$ $ f_{w\ average}  \leq 0,15\%$
Lipping p	0.11mm	-	$p_{max} \leq 0,15\text{ mm}$
Opening between elements	0.05mm	-	$\leq 0,20\text{ mm}$

# Test Report

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## Test Items, Method and Results:

Test Item: Formaldehyde emission test

Test Method: With reference to EN 717-1:2004 chamber method, formaldehyde content was detected by UV-VIS spectrophotometer.

### Test condition:

Chamber type:	0.225 m <sup>3</sup> stainless steel chamber
Climatic conditions:	(23 ± 0.5)°C, (45 ± 3)% R.H.
Air exchange rate:	1.0 h <sup>-1</sup>
Loading factor:	1.0 m <sup>2</sup> /m <sup>3</sup>
Test duration:	240 hours
Test result:	ND

### Note:

1. mg/m<sup>3</sup> = milligram per cubic meter
2. Detection limit = 0.02 mg/m<sup>3</sup>
3. ND = Not detected (less than the detection limit)
4. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Zhejiang  
Address: Building 2, 500 Shuiyueting East Road, Haining, Zhejiang, China

# Test Report

Issue Date: 2023-11-01

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### Test Items, Method and Results:

Test Item: Pentachlorophenol (PCP) Content

Test Method: With reference to CEN/TR 14823-2003.

Test Result:

Test Compound	Result (mg/kg)
Pentachlorophenol (PCP)	ND

Note:

1. Detection Limit = 0.5 mg/kg
2. ND=Not Detected
3. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Shanghai  
Address: 4-5/F., Block C, No.1218, Wanrong Road, Jing'an District, Shanghai



# Test Report

Issue Date: 2023-11-01

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### Test Items, Method and Results:

Test method: By a combination of Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

Test Result: (Substances in the Candidate List of SVHC)

No.	Chemical Substance	CAS No.	Results %(w/w)
-	Tested SVHCs in Chemical list	-	ND

Conclusion:

Tested Samples	Standard	Result
14mm Engineered wood flooring	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)	Meet requirement

Note:

Reporting limit = 0.010% (w/w)

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-Case

Test location: Central Chemical Lab of Intertek Testing Services Ltd., Wuxi

Address: No. 8, Fubei Road, Xishan Economic Development Zone, Wuxi, China

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235 SVHCs and 1 proposed SVHC Testing list:

No.	Chemical Substance	CAS No.	No.	Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	21	Diisobutyl Phthalate (DIBP)	84-69-5
2	Diarsenic Pentaoxide Δ	1303-28-2	22	Coal Tar Pitch, High Temperature	65996-93-2
3	Diarsenic Trioxide Δ	1327-53-3	23	Anthracene Oil	90640-80-5
4	Lead Hydrogen Arsenate Δ	7784-40-9	24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4
5	Triethyl Arsenate Δ	15606-95-8			
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	26	Anthracene Oil, Anthracene-low	90640-82-7
8	Anthracene	120-12-7	27	Anthracene Oil, Anthracene Paste	90640-81-6
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	28	Acrylamide	79-06-1
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6,	29	Boric Acid Δ	10043-35-3, 11113-50-1
		134237-51-7, 134237-52-	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2			
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1
13	Dibutyl Phthalate (DBP)	84-74-2	32	Sodium Chromate Δ	7775-11-3
14	Benzyl Butyl Phthalate (BBP)	85-68-7	33	Potassium Chromate Δ	7789-00-6
15	Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	34	Ammonium Dichromate Δ	7789-09-5
16	Lead Chromate Δ	7758-97-6	35	Potassium Dichromate Δ	7778-50-9
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	36	Trichloroethylene	79-01-6
			37	2-Methoxyethanol	109-86-4
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	38	2-Ethoxyethanol	110-80-5
19	Tris (2-Chloroethyl) Phosphate	115-96-8	39	Cobalt Sulphate Δ	10124-43-3
20	2,4-Dinitrotoluene	121-14-2	40	Cobalt Dinitrate Δ	10141-05-6

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41	Cobalt Carbonate Δ	513-79-1	63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
42	Cobalt Diacetate Δ	71-48-7			
43	Chromium Trioxide Δ	1333-82-0	64	2-Methoxyaniline; o-Anisidine	90-04-0
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8
			66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
45	Strontium Chromate Δ	7789-06-2	67	Pentazinc chromate octahydroxide Δ	49663-84-5
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	68	Potassium hydroxyoctaoxodizincate dichromate Δ	11103-86-9
47	1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	69	Dichromium tris(chromate) Δ	24613-89-6
			48	Hydrazine	7803-57-8, 302-01-2
49	1-methyl-2-pyrrolidone	872-50-4			
50	1,2,3-trichloropropane	96-18-4			
51	1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)	71888-89-6	72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
52	Lead dipicrate Δ	6477-64-1	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
53	Lead styphnate Δ	15245-44-0			
54	Lead azide; Lead diazide Δ	13424-46-9	74	Diboron trioxide Δ	1303-86-2
55	Phenolphthalein	77-09-8	75	Formamide	75-12-7
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	76	Lead(II) bis(methanesulfonate) Δ	17570-76-2
57	N,N-dimethylacetamide (DMAC)	127-19-5	77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
58	Trilead diarsenate Δ	3687-31-8			
59	Calcium arsenate Δ	7778-44-1	78	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
60	Arsenic acid Δ	7778-39-4			
61	Bis(2-methoxyethyl) ether	111-96-6	79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
62	1,2-Dichloroethane	107-06-2			

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80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1		Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]	
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium 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	91	[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].	85-42-7 13149-00-3 14166-21-3
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	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	25550-51-0 19438-60-9 48122-14-1 57110-29-9
83	$\alpha,\alpha$ -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			
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	93	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]	--
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5			
86	Pentacosafuorotridecanoic acid	72629-94-8			
87	Tricosafuorododecanoic acid	307-55-1	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
88	Henicosafuoroundecanoic acid	2058-94-8			
89	Heptacosafuorotetradecanoic acid	376-06-7			
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	95	Methoxyacetic acid	625-45-6

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96	N,N-dimethylformamide	68-12-2	123	Tetralead trioxide sulphate Δ	12202-17-4
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	124	Trilead dioxide phosphonate Δ	12141-20-7
98	Lead monoxide (Lead oxide) Δ	1317-36-8	125	Furan	110-00-9
99	Orange lead (Lead tetroxide) Δ	1314-41-6	126	Diethyl sulphate	64-67-5
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	127	Dimethyl sulphate	77-78-1
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
102	Lead titanium trioxide Δ	12060-00-3	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
103	Lead titanium zirconium oxide Δ	12626-81-2			
104	Silicic acid, lead salt Δ	11120-22-2	130	4,4'-methylenedi-o-toluidine	838-88-0
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped Δ [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]	68784-75-8	131	4,4'-oxydianiline and its salts	101-80-4
			132	4-aminoazobenzene	60-09-3
			133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
			134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
			135	Biphenyl-4-ylamine	92-67-1
			136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
			137	o-toluidine	95-53-4
106	1-bromopropane (n-propyl bromide)	106-94-5	138	N-methylacetamide	79-16-3
107	Methyloxirane (Propylene oxide)	75-56-9	139	Cadmium Δ	7440-43-9
			140	Cadmium oxide Δ	1306-19-0
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	141	Dipentyl phthalate (DPP)	131-18-0
			142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--
109	Diisopentylphthalate (DIPP)	605-50-5	142		
110	N-pentyl-isopentylphthalate	776297-69-9			
111	1,2-diethoxyethane	629-14-1			
112	Acetic acid, lead salt, basic Δ	51404-69-4			
113	Lead oxide sulfate Δ	12036-76-9			
114	[Phthalato(2-)] dioxotrilead Δ	69011-06-9			
115	Dioxobis(stearato)trilead Δ	12578-12-0			
116	Fatty acids, C16-18, lead salts Δ	91031-62-8			
117	Lead cyanamidate Δ	20837-86-9			
118	Lead dinitrate Δ	10099-74-8			
119	Pentalead tetraoxide sulphate Δ	12065-90-6	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
120	Pyrochlore, antimony lead yellow Δ	8012-00-8			
121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
122	Tetraethyllead Δ	78-00-2			

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145	Cadmium sulphide Δ	1306-23-6			
146	Lead di(acetate) Δ	301-04-2			
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	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
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	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 isomers of [1] and [2] or any combination thereof]	--
149	Dihexyl phthalate	84-75-3			
150	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7			
151	Trixylyl phosphate	25155-23-1	164	1,3-Propanesultone	1120-71-4
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1
153	Cadmium chloride Δ	10108-64-2			
154	Sodium perborate; perboric acid, sodium salt Δ	15120-21-5, 11138-47-9	166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
155	Sodium peroxometaborate Δ	7632-04-4			
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	167	Nitrobenzene	98-95-3
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
			170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7
159	Cadmium fluoride Δ	7790-79-6			
160	Cadmium sulphate Δ	10124-36-4; 31119-53-6			
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)	--	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid EC no.: 206-400-3   CAS no.: 335-76-2 Ammonium nonadecafluorodecanoate EC no.: 221-470-5   CAS no.: 3108-42-7 Decanoic acid, nonadecafluoro-, sodium salt EC no.: --   CAS no.: 3830-45-3	--

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172	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]	--	190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7
			191	Dicyclohexyl phthalate (DCHP)	84-61-7
			192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
			193	Benzo[k]fluoranthene	207-08-9
			194	Fluoranthene	206-44-0
			195	Phenanthrene	85-01-8
173	p-(1,1-dimethylpropyl)phenol	80-46-6	196	Pyrene	129-00-0
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8
175	Benz[a]anthracene	56-55-3			
176	Cadmium nitrate $\Delta$	10325-94-7			
177	Cadmium carbonate $\Delta$	513-78-0			
178	Cadmium hydroxide $\Delta$	21041-95-2	198	4-tert-butylphenol (PTBP)	98-54-4
179	Chrysene	218-01-9			
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--			
			200	2-methoxyethyl acetate	110-49-6
			201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq$ 0.1% w/w 4-heptylphenol, branched and linear]	--	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
			203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
			204	Diisohexyl phthalate	71850-09-4
			205	Perfluorobutane sulfonic acid (PFBS) and its salts	--
182	Octamethylcyclotetrasiloxane (D4)	556-67-2			
183	Decamethylcyclopentasiloxane (D5)	541-02-6			
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	206	1-vinylimidazole	1072-63-5
185	Lead	7439-92-1	207	2-methylimidazole	693-98-1
186	Disodium octaborate $\Delta$	12008-41-2	208	Butyl 4-hydroxybenzoate	94-26-8
187	Benzo[ghi]perylene	191-24-2	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
188	Terphenyl hydrogenated	61788-32-7			
189	Ethylenediamine (EDA)	107-15-3	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8

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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 Δ		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)	--
			221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
212	1,4-dioxane	123-91-1			
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	222	S-(tricyclo(5.2.1.0' <sup>2</sup> ,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate Δ	255881-94-8
			223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4
			224	N-(hydroxymethyl)acrylamide	924-42-5
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7
216	Glutaral	111-30-8	227	4,4'-sulphonyldiphenol	80-09-1
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]		228	Barium diboron tetraoxide Δ	13701-59-2
			229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--
			230	Isobutyl 4-hydroxybenzoate	4247-02-3
218	Orthoboric acid, sodium salt Δ	13840-56-7	231	Melamine	108-78-1
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)		232	Perfluoroheptanoic acid and its salts	--
			233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	--



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No.	Chemical Substance	CAS No.
234	bis(4-chlorophenyl) sulphone (BCPS)	80-07-9
235	Diphenyl (2,4,6- trimethylbenzoyl) phosphine oxide	75980-60-8

Proposed SVHC(List of 1 chemical in the draft Commission Implementing Decision proposed by European Commission, and published as Notification G/TBT/N/EU/803 on World Trade Organization (WTO) on 1 June 2021)

No.	Chemical Substance	CAS No.
1	Resorcinol	108-46-3

REACH requirement:

- 1 Substances of very high concern (SVHC) are classified as:
  - (a) Carcinogenicity category 1A or 1B;
  - (b) Germ cell mutagenicity category 1A or 1B;
  - (c) Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
  - (d) Persistent, bioaccumulative and toxic (PBT)
  - (e) Very persistent and very bioaccumulative (vPvB)
  - (f) Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disrupters
  
2. As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:
  - (a) Identity and contact details of the producer or importer;
  - (b) Registration number(s), if available;
  - (c) Identity of the substance;
  - (d) Classification of the substance(s);
  - (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
  - (f) Tonnage range of the substance(s).
  
3. As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

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4. As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).
5. As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.
6. As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

#### Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

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### Appendix A: Sample Received Photo



Front view(Test surface)



Back view

### Revision:

NO.	Date	Changes
230822002SHF-012	2023-11-01	First issue

