# FLOORCO TRADING LTD.

# TEST REPORT

**SCOPE OF WORK**
ANTICO & DUKE Engineered wood flooring

**REPORT NUMBER**
230822002SHF-003

**TEST DATE(S)**
2023-08-22 - 2023-10-08

**ISSUE DATE**
2023-10-18

**PAGES**
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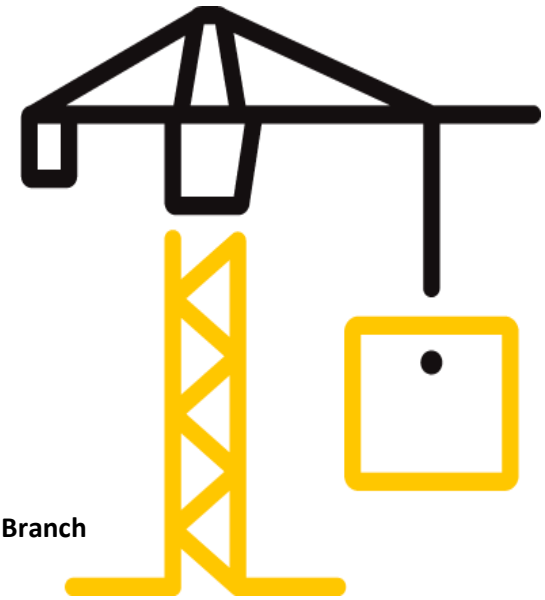

**Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch**

# Test Report

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# Test Report

Issue Date: 2023-10-18 Intertek Report No. 230822002SHF-003
Applicant: FLOORCO TRADING LTD.
Address: 118 CARBINE ROAD, MT WELLINGTON
Attn: Terry SHI
Test Type: Performance test, samples provided by the applicant.

**Product Information**

| | | | |
|---|---|---|---|
| **Product Name** | ANTICO & DUKE Engineered wood flooring | **Brand** | / |
| **Sample Description** | Good Condition | **Sample Amount** | 68 pcs |
| | | **Received Date** | 2023-08-07 |

| **Sample ID** | **Model** | **Specification** |
|---|---|---|
| S230822002SHF.013~018 | ANTICO & DUKE | 2200mm×220mm×15mm |

**Test Methods And Standards**

| | |
|---|---|
| **Test Standard** | 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) |
| **Specification Standard** | 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) |
| **Test Conclusion** | 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

Name: Sally Xie Name: Jackie Zhou
Title: Reviewer Title: Project Engineer

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# Test Report

Issue Date: 2023-10-18 Intertek Report No. 230822002SHF-003

**Test Items, Method and Results:**

| EN 14342:2013<br>Wood flooring - Characteristics, evaluation of conformity and marking - Essential Characteristics | | | |
|---|---|---|---|
| Clause | Requirement - Test | Result - Remark | Verdict |
| 4 | Requirement | | |
| 4.1 | Dimensional characteristics<br>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<br>Refer to page 6 | P |
| 4.3.1 | Formaldehyde emission<br>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<br>Refer to page 7 | P |
| 4.3.2 | Content of pentachlorophenol<br>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<br>Refer to page 8 | P |
| 4.4 | Release of other dangerous substances<br>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).<br>Refer to page 9-18 | P |
| 4.5 | Breaking strength<br>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<br>Breaking strength: 4993 N | — |

# Test Report

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| EN 14342:2013<br>Wood flooring - Characteristics, evaluation of conformity and marking | | | |
|---|---|---|---|
| Clause | Requirement - Test | Result - Remark | Verdict |
| 4.7 | Thermal conductivity<br>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<br>Temperature difference: 21 °C<br>Thermal conductivity:<br>0.101 W/(m·K)<br>Thermal Resistance:<br>0.151 ($m^2$·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 | $t_{max} - t_{min}$: 0.09mm<br>$t_{average} - t_{nominal}$ : -0.02mm | 15mm | $t_{max} - t_{min} \leq 0{,}50$ mm<br>$t_{average} - t_{nominal} \leq \pm 0{,}50$ mm |
| Length l of the top layer in the same package | $l_{max} - l_{min}$ : 0.23mm/m<br>$l_{average} - l_{nominal}$: 0.3mm | 2200mm | l≤1500 mm: $l_{max} - l_{min} \leq 0{,}50$mm<br>l>1500 mm: $l_{max} - l_{min} \leq 0{,}30$mm/m<br>$l_{average} - l_{nominal} \leq 1$mm |
| Width w of the top layer in the same package | $w_{max} - w_{min}$ : 0.09 mm<br>$w_{average} - w_{nominal}$ : 0.00 mm | 220mm | $w_{max} - w_{min} \leq 0{,}20$ mm<br>$w_{average} - w_{nominal} \leq 0{,}10$ mm |
| Deviation of squareness | 0.15mm | - | $q_{max} \leq 0{,}20$ mm |
| Deviation from edge straightness of the top layer s | 0.04mm/m | - | $s_{max} \leq 0{,}30$ mm/m |
| Cup $f_w$ in width direction | $f_{w\,max}$ : 0.04%<br>$f_{w\,average}$ : 0.03% | - | $\lvert f_{w\,max} \rvert \leq 0{,}20$ %<br>$\lvert f_{w\,average} \rvert \leq 0{,}15$ % |
| Lipping p | 0.10mm | - | $p_{max} \leq 0{,}15$ mm |
| Opening between elements | 0.05mm | - | ≤ 0,20 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: | 1$m^3$ stainless steel chamber |
| Climatic conditions: | (23 ± 0.5)°C, (45 ± 3)% R.H. |
| Air exchange rate: | 1.0 $h^{-1}$ |
| Loading factor: | 1.0 $m^2/m^3$ |
| Test duration: | 240 hours |
| Test result: | ND |

Note:

1. $mg/m^3$ = milligram per cubic meter
2. Detection limit = 0.02 $mg/m^3$
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: 2023-10-18 Intertek Report No. 230822002SHF-003

**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

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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 |
|---|---|---|
| 15mm 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, 134237-51-7, 134237-52- | 29 | Boric Acid Δ | 10043-35-3, 11113-50-1 |
| 11 | 5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene) | 81-15-2 | 30 | Disodium Tetraborate, Anhydrous Δ | 1330-43-4, 12179-04-3, 1303-96-4 |
| 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 ($C_{10-13}$) | 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<br>Dichromic Acid Δ<br>Oligomers of Chromic Acid and Dichromic Acid Δ | 7738-94-5<br>13530-68-2<br>-- | 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 di-chromate Δ | 11103-86-9 |
| 47 | 1,2-Benzenedicarboxylic acid, di-$C_{7-11}$-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 69 | Dichromium tris(chromate) Δ | 24613-89-6 |
| | | | 70 | Aluminosilicate Refractory Ceramic Fibres Δ | Index No. 650-017-00-8 |
| 48 | Hydrazine | 7803-57-8, 302-01-2 | | | |
| 49 | 1-methyl-2-pyrrolidone | 872-50-4 | 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres Δ | Index No. 650-017-00-8 |
| 50 | 1,2,3-trichloropropane | 96-18-4 | | | |
| 51 | 1,2-Benzenedicarboxylic acid, di-$C_{6-8}$-branched alkyl esters, $C_7$-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 | 91 | Cyclohexane-1,2-dicarboxylic anhydride [1]<br>cis-cyclohexane-1,2-dicarboxylic anhydride [2]<br>trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br>[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<br>13149-00-3<br>14166-21-3 |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 548-62-9 | | | |
| 82 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ⩾ 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],<br>Hexahydro-4-methylphthalic anhydride [2],<br>Hexahydro-1-methylphthalic anhydride [3],<br>Hexahydro-3-methylphthalic anhydride [4]<br>[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<br>19438-60-9<br>48122-14-1<br>57110-29-9 |
| 83 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) *[with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michl* er's base (EC No. 202-959-2)] | 6786-83-0 | | | |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol *[with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]* | 561-41-1 | 93 | 4-Nonylphenol, branched and linear<br>[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 | Pentacosafluorotridecanoic acid | 72629-94-8 | 94 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br>[covering well-defined substances and UVCB substances, polymers and homologues] | -- |
| 87 | Tricosafluorododecanoic acid | 307-55-1 | | | |
| 88 | Henicosafluoroundecanoic acid | 2058-94-8 | | | |
| 89 | Heptacosafluorotetradecanoic 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 ($H_2Si_2O_5$), 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 |
| 108 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 140 | Cadmium oxide Δ | 1306-19-0 |
| | | | 141 | Dipentyl phthalate (DPP) | 131-18-0 |
| 109 | Diisopentylphthalate (DIPP) | 605-50-5 | 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] | -- |
| 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 | 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 |
| 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 | 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] | -- |
| 148 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | | | |
| 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 | 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts<br>Nonadecafluorodecanoic acid<br>EC no.: 206-400-3 \| CAS no.: 335-76-2<br>Ammonium nonadecafluorodecanoate<br>EC no.: 221-470-5 \| CAS no.: 3108-42-7<br>Decanoic acid, nonadecafluoro-, sodium salt<br>EC no.: -- \| CAS no.: 3830-45-3 | -- |
| 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) | -- | | | |

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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 nitrateΔ | 10325-94-7 | | | |
| 177 | Cadmium carbonateΔ | 513-78-0 | 198 | 4-tert-butylphenol (PTBP) | 98-54-4 |
| 178 | Cadmium hydroxideΔ | 21041-95-2 | 199 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | -- |
| 179 | Chrysene | 218-01-9 | | | |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”TM) [covering any of its individual anti- and syn-isomers or any combination thereof] | -- | 200 | 2-methoxyethyl acetate | 110-49-6 |
| | | | 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ⩾ 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 ⩾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 |
| 182 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | 205 | Perfluorobutane sulfonic acid (PFBS) and its salts | -- |
| 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 octaborateΔ | 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 | Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety 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) | -- |
| 212 | 1,4-dioxane | 123-91-1 | 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC) | 119-47-1 |
| 213 | 2,2-bis(bromomethyl)propane1,3-diol (BMP);<br>2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);<br>2,3-dibromo-1-propanol (2,3-DBPA) | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 | 222 | S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 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-diylbisoxy]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 tetraoxideΔ | 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.

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.

# Test Report

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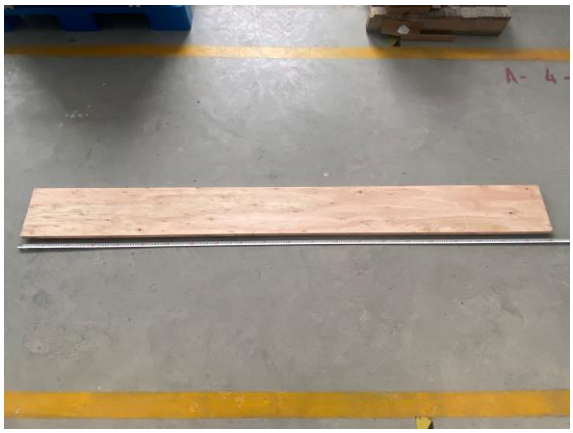
**Appendix A: Sample Received Photo**

Front view(Test surface)



Back view

**Revision:**

| NO. | Date | Changes |
|---|---|---|
| 230822002SHF-003 | 2023-10-18 | First issue |