

**Test Report**

Number: SHAH01681549

Applicant: HAPE INTERNATIONAL (NINGBO) LTD.  
HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD  
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY  
BEILUN, NINGBO, ZHEJIANG, CHINA.

Date: 12 Jul, 2024

Attn: QINKE / CHENKAI

Sample Description:

One (1) group of submitted sample said to be :

Item Name : Sofia

Item No. : 848140

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

| <u>Tested samples</u>                         | <u>Standard</u>   | <u>Result</u>    |
|---|---|------------------|
| Submitted sample                              | EN 1729-1: 2015+AC:2016 Furniture-Chair and tables for educational institutions-Part 1 : Functional dimensions.   | Pass             |
| Submitted sample                              | EN 1729-2:2023- Furniture — Chairs and tables for educational institutions Part 2: Safety requirements and test methods   | Pass             |
| Tested component of submitted samples         | Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII item 63 of the REACH Regulation (EC) No. 1907/2006   | Pass             |
| Tested components of submitted samples / sets | Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006 | Pass             |
| Tested Components of Submitted Sample(s)      | EU REACH regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and Waste Framework Directive (WFD) requirement in report for details)  | Meet requirement |

To be continued

Authorized By:  
Intertek Testing Services Ltd. Zhejiang



Bobo Yao  
Assistant General Manager



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| <u>Tested samples</u>                      | <u>Standard</u>  | <u>Result</u>       |
|--|--|---------------------|
| Tested Component of Submitted Sample       | Dimethyl Fumarate (DMFu) content requirement in Annex XVII Entry 61 of the REACH Regulation (EC) No 1907/2006 and Amendment (EU) No 412/2012   | Pass                |
| Tested Components of Submitted Sample      | AfPS GS 2019:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) content   | Pass                |
| Tested Components of Submitted Sample      | Regulation (EU) No 2019/1021 on Persistent Organic Pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content   | Pass                |
| Tested components of submitted sample      | Organotin content requirement in Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010  | Pass                |
| Tested components of submitted sample      | Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)  | Pass                |
| Tested components of submitted sample      | Hexabromocyclododecane (HBCDD) content requirement in Regulation (EU) 2019/1021  | Pass                |
| Tested Components of Submitted Sample      | Phthalates content requirement in Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC) | Pass                |
| Tested Components of Submitted Sample      | Phthalates content requirement in Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC) | Pass<br>See comment |
| Tested Component(s) of Submitted Sample(s) | Arsenic compounds content requirement in Annex XVII Item 19 of the REACH Regulation (EC) No. 1907/2006 & amendment No. 552/2009  | Pass                |
| Tested component(s) of submitted sample(s) | Phenylmercury compounds content requirement in Annex XVII Item 62 of the REACH Regulation (EC) No. 1907/2006 & amendment No. 552/2009 and No. 848/2012   | Pass                |

### Comment:

The testing scope of the following standard(s) was/were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

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To be continued

Authorized By:  
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Assistant General Manager



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**1.TEST CHAIRS AND TABLES FOR EDUCATIONAL INSTITUTIONS**

With reference EN 1729-1:2015+AC:2016 – Furniture — Chairs and tables for educational institutions Part 1: Functional dimensions, the submitted sample was subjected to the following tests

Number of sample tested: One (1) piece

Initial check: No visible damage was found.

Size mark: 0

Executive summary:

| Clause | Test Method / Requirement  | Verdict     |
|--------|--|-------------|
| 1      | Scope  | -           |
| 2      | Normative references   | -           |
| 3      | Terms and definitions  |             |
| 4      | <p><b>Functional dimensions for chairs and tables</b></p> <p>The functional dimensions and corresponding size marks and colour codes for chairs with slopes between -5° and +7° and associated tables shall be as specified in the normative Annex A.</p> <p>The functional dimensions and corresponding size marks and colour codes for high chairs with double sloped seats and associated tables shall be as specified in the normative Annex B.</p> <p>The functional dimensions and corresponding size marks and colour codes for standing-height tables shall be as specified in normative Annex C.</p> <p>The functional dimensions and corresponding size marks and colour codes for tall chairs shall be as specified in the normative Annex D. Tables suitable for tall chairs cannot be size marked. Tables shall correspond to the height of tall chairs as in Table D.2.</p> <p>The functional dimensions and corresponding size marks and colour codes for stools shall be as specified in the normative Annex E. Worksurfaces shall correspond to the height of stools as in Table E.3.</p> <p>Adjustable and multi-size furniture shall fulfil the requirements specified in Annex A, Annex B, Annex C, Annex D or Annex E.</p> <p>The stature and popliteal height ranges shown in Table A.1, Table A.2, Table B.1, Table B.2, Table C.1 and Table D.1 do not include any allowance for shoes. All chair and table heights include an allowance for shoes.</p> <p>Assessment needs to be carried out according to EN 1729-1 before being tested according to EN 1729-2.</p> | See Annex A |
| 5      | <p><b>Marking</b></p> <p>Chairs and tables in Annex A shall be marked as 0 to 7. Chairs and tables in Annex B shall be marked as B0 to B7. Standing-height tables in Annex C shall be marked as C0 to C7. Tall chairs in Annex D shall be marked as D0 to D7. Stools in Annex E shall be marked as E0 to E7.</p> <p>The marking of fixed and adjustable chairs and tables shall be legible and indelible and shall include at least the following information:</p> <p>a) size mark or colour code or both, as specified in Annex A, Annex B, Annex C, Annex D or Annex E;</p> <p>b) marking on adjustable furniture of the size marks covered;</p> <p>c) name and/or trade name and/or mark and address of the manufacturer or his or her authorized representative in full or in abbreviated form, provided the abbreviation enables the manufacturer and/or his or her authorized representative to be identified;</p> <p>d) date of production by stating at least the year and month of production.</p> <p>Tall chairs shall also be marked with a reference where to find information on the table height they are intended to be used with. This information shall be provided on a label directly or via a web address, QR-code or other suitable application. Tables that are intended for use with tall chairs shall be marked with their height (distance from the floor to the top of the table). This information shall be provided on a label directly or via a web address, QR-code or other suitable application.</p>   | P           |



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|  |   |                       |
|--|---|-----------------------|
| 6  | <p><b>Instructions</b><br/>The instructions shall be submitted with the furniture in the official languages(s) of the country where the furniture is sold. They can be given affixed to the furniture, on a label, in a leaflet or in the instructions for use. They shall include at least the following:</p> <p>a) <b>Size mark reference:</b> size mark identification shall be referenced to this European Standard;</p> <p>b) <b>Maintenance instructions:</b> including information on maintenance and cleaning;</p> <p>c) <b>Installation instructions for multi-size furniture:</b> instructions on how to adjust the furniture to fit a specific group of pupils;</p> <p>d) <b>Adjustability information:</b> instructions for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognize correct settings and therefore a good posture;</p> <p>e) <b>Warning concerning the hazard when working with gas lifts:</b> "Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only."<br/>If the height adjustment is continuous, there is no need to show each size mark explicitly. It is sufficient to have an indication showing the size marks it covers and to have a set of clear instructions, with drawings, on how to adjust the chair to achieve a good posture. This also applies to tables.<br/>NOTE Appropriate drawings or pictures can be used to reinforce the information in instruction leaflets.</p> | NC<br>(See remark #1) |
| 7  | <p><b>Approval of range</b><br/>In order to approve a range of chairs, stools or tables, each size mark within the range shall be measured separately.<br/>When assessing table top dimensions for a range of tables, if there are six or fewer different table top shapes or sizes in the range, all table tops shall be measured. If there are more than six different table top shapes or sizes, six shall be measured and the additional table top shapes or sizes shall be assessed from the manufacturer's drawings of them. The drawings shall show full details (dimensions) of each table top and its under frame structure. The information provided shall be used to assess whether the size of table top and legroom clearance fulfil the requirements of the standard. The test report shall state which table tops have been measured and which have been assessed from drawings. These drawings shall be attached to the report.</p>   | NA                    |
| <p><b>Annex A Functional dimensions for chairs with slopes between -5° and +7° and associated tables</b></p> |   |                       |
| <p><b>A.1 Functional dimensions and size marks for chairs</b></p>  |   |                       |
|  | <p>The dimensions, angles, size marks and colour codes for chairs shall be as given in Table A.1. Where dimensions are stated as ranges, the measured dimension shall be any value in this range. All accessible edges shall be rounded or chamfered.<br/>Room for free movement of the buttocks shall be ensured. If the backrest extends below Point S, it shall be angled rearwards such as to maintain the buttock zone as shown in Figure A.3.<br/>Raised edges and surfaces shall not dig into thighs. This applies to points or edges on the seat surface or frame in front of the position indicated by the rear pins on the SCMD, outside the planes through the rear pins which are parallel to the median plane, as shown by the shaded area in Figure A.1. This requirement is fulfilled when these points are not higher than 15 mm above the lowest point on the seat surface in the planes through the rear pins and parallel to the median plane for size marks 0 to 3 and 25 mm above the lowest point for size marks 4 to 7.</p>  | P                     |
| <p><b>A.2 Functional dimensions and size marks for tables</b></p>  |   |                       |
|  | <p>Table tops may be horizontal, with a fixed inclination or inclinable by the user. If the table top is user inclinable, it shall be possible to adjust it to a horizontal position.<br/>Table tops which are or can be inclined are recommended.</p>  | NA                    |
| <p><b>A.3 Legroom</b></p>  |   |                       |
|  | <p>Legroom beneath the worksurfaces (tables and desks) shall be provided for each size mark in accordance with the minimum dimensions as shown in Table A.3 and Figure A.8.<br/>The legroom shall be measured by placing the template on the floor with its higher end in line with the front edge of the table, where pupils sit, transversing between the legs of the table. Overlapping of legroom templates is acceptable for a group of tables.</p>  | NA                    |



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|  |           |
|--|-----------|
| <p><b>A.4 Requirements for adjustable chairs and tables</b><br/> a) be easily accessible to the user;<br/> b) be possible to operate without the need for tools.<br/> Adjustable furniture shall cover two or more size marks. It shall be possible to identify the size marks to which the furniture can be adjusted.<br/> Adjustable furniture (chairs and tables) designed to cover a range of size marks shall comply with the dimensional requirements of each size mark covered (see Table A.1 and Table A.2).<br/> Adjustments may be continuous or in fixed steps.<br/> Examples of dimensions of adjustable chairs and tables are given in Annex G.</p> | <p>NA</p> |
| <p><b>Annex B Functional dimensions for high chairs with double-sloped seats and associated tables</b></p>   | <p>NA</p> |
| <p><b>Annex C Functional dimensions for standing height tables</b></p>   | <p>NA</p> |
| <p><b>Annex D Functional dimensions for tall chairs with slopes between -5° and +7° and associated tables</b></p>  | <p>NA</p> |
| <p><b>Annex E Functional dimensions for stools and associated worksurfaces</b></p>   | <p>NA</p> |

Abbreviation: P = Pass F = Fail NA = Not Applicable; NC = Not Conduct





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**Table A.1—Dimensions and size marks for chairs with single-sloped seats**

All dimensions in millimetres unless otherwise stated

| Size mark   | 0           | 1             | 2               | 3               | 4               | 5               | 6               | 7               |
|---|-------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Colour code   | White       | Orange        | Violet          | Yellow          | Red             | Green           | Blue            | Brown           |
| Popliteal range (without shoes)                               | 200-250     | 250-280       | 280-315         | 315-355         | 355-405         | 405-435         | 435-485         | 485+            |
| Stature range (without shoes)                                 | 800<br>-950 | 930<br>-1 160 | 1 080<br>-1 210 | 1 190<br>-1 420 | 1 330<br>-1 590 | 1 460<br>-1 765 | 1 590<br>-1 880 | 1 740<br>-2 070 |
| h <sub>s</sub> Height of seat ± 10                            | 210         | 260           | 310             | 350             | 380             | 430             | 460             | 510             |
| t <sub>4</sub> Effective depth of seat ± 15 (0-2), ± 25 (3-7) | n/a         | n/a           | n/a             | 300             | 340             | 380             | 420             | 460             |
| b <sub>3</sub> Seat width (min)                               | 210         | 240           | 280             | 320             | 340             | 360             | 380             | 400             |
| x Distance between Point S and back of seat pad (max)         | n/a         | n/a           | n/a             | 30              | 30              | 50              | 50              | 50              |
| h <sub>7</sub> Backrest height (min)                          | 100         | 100           | 100             | 100             | 100             | 100             | 100             | 100             |
| b <sub>4</sub> Width of backrest (min)                        | n/a         | n/a           | n/a             | 260             | 270             | 300             | 330             | 360             |
| r <sub>2</sub> Horizontal radius of backrest (min)            | n/a         | n/a           | n/a             | 300             | 300             | 300             | 300             | 300             |
| α Inclination of seat   | n/a         | n/a           | n/a             | -5° to +7°      | -5° to +7°      | -5° to +7°      | -5° to +7°      | -5° to +7°      |
| γ Angle between seat and backrest                             | n/a         | n/a           | n/a             | 95° to 110°     | 95° to 110°     | 95° to 110°     | 95° to 110°     | 95° to 110°     |
| p Height of armrest above seat -20 to +10                     | n/a         | n/a           | n/a             | 170             | 190             | 210             | 230             | 250             |
| r Width between arms  | n/a         | n/a           | n/a             | 360-410         | 390-440         | 420-470         | 460-510         | 510 - 570       |
| q Distance from backrest to front edge of armrest (max)       | n/a         | n/a           | n/a             | n/a             | 225             | 250             | 275             | 300             |
| o Width of armrest (min)                                      | n/a         | n/a           | n/a             | n/a             | 20              | 20              | 20              | 20              |
| n Length of armrest (min)                                     | n/a         | n/a           | n/a             | n/a             | 80              | 80              | 80              | 80              |



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**Table A.2 — Dimensions and size marks for tables for use with chairs with seat slopes between -5° and +7°**

All dimensions in millimetres unless otherwise stated

| Size mark  | 0       | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   |
|--|---------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Colour code  | White   | Orange              | Violet              | Yellow              | Red                 | Green               | Blue                | Brown               |
| Popliteal range (without shoes)  | 200-250 | 250-280             | 280-315             | 315-355             | 355-405             | 405-435             | 435-485             | 485+                |
| Stature range (without shoes)  | 800-950 | 930<br>-1 160       | 1 080<br>-1 210     | 1 190<br>-1 420     | 1 330<br>-1 590     | 1 460<br>-1 765     | 1 590<br>-1 880     | 1 740<br>-2 070     |
| h <sub>1</sub> Height of top ± 20  | 400     | 460                 | 530                 | 590                 | 640                 | 710                 | 760                 | 820                 |
| t <sub>1</sub> Depth of top (min)  | -       | 500 <sup>a</sup>    | 500 <sup>a</sup>    | 500 <sup>a</sup>    | 500                 | 500                 | 500                 | 500                 |
| w <sub>1</sub> Width of top, per person at front edge, where pupils sit (min)        | -       | 600 <sup>b</sup>    | 600 <sup>b</sup>    | 600 <sup>b</sup>    | 600 <sup>b</sup>    | 600                 | 600                 | 600                 |
| Surface area per person (min)  | -       | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> | 0,15 m <sup>2</sup> |
| Horizontal distance between front legs/structure, where pupils sit, per person (min) | -       | 500 <sup>c</sup>    | 500 <sup>c</sup>    | 500 <sup>c</sup>    | 500 <sup>c</sup>    | 500                 | 500                 | 500                 |

<sup>a</sup> Can be reduced to 400 mm (only when required by educational conditions).  
<sup>b</sup> Can be reduced to 550 mm (only when required by educational conditions).  
<sup>c</sup> Can be reduced to 450 mm (only when required by educational conditions).

**Table A.3 — Minimum legroom template dimensions for tables for use with chairs with seat slopes between -5° and +7°**

All dimensions in millimetres

| Size marks     |     |     |     |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| h <sub>2</sub> | 325 | 380 | 440 | 495 | 545 | 610 | 665 | 725 |
| h <sub>4</sub> | 275 | 325 | 375 | 420 | 465 | 520 | 565 | 620 |
| t <sub>2</sub> | 300 | 300 | 300 | 300 | 400 | 400 | 400 | 400 |
| t <sub>3</sub> | 400 | 400 | 400 | 400 | 500 | 500 | 500 | 500 |

**Remark:**

# 1 the instructions shall be submitted with the furniture in the official languages of the country where the furniture is sold. It can be given either affixed to the furniture, on a label, in a leaflet or in the instructions for use. It shall include at least the following:

- a) Size mark reference: Size mark identification shall be referenced to this European standard;
- b) Maintenance instructions: Including information on surface finish properties, maintenance and cleaning;
- c) Installation instructions for multi-size furniture: Instructions on how to adjust the furniture to fit a specific group of pupils;
- d) Adjustability information: Instruction for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognize correct settings and therefore a good posture



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- e) Warning concerning the hazard when working with gas lifts: "Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only." If the height adjustment is continuous, there is no need to show each size mark explicitly. It is sufficient to have an indication showing the size marks it covers and to have a set of clear instructions, with drawings, on how to adjust the chair to achieve a good posture. This also applies to tables.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 14, 2024

## 2.TEST CHAIRS AND TABLES FOR EDUCATIONAL INSTITUTIONS

With reference EN 1729-2:2023– Furniture — Chairs and tables for educational institutions Part 2: Safety requirements and test methods, the submitted sample was subjected to the following tests:

Number of sample tested: One (1) piece

Initial inspection: No any damage was found

Size mark: 0

### Executive summary:

| Clause  | Test items   | Verdict        |
|---------|--|----------------|
| 1       | Scope  | -              |
| 2       | Normative references   | -              |
| 3       | Terms and definitions  | -              |
| 4       | General test conditions  | -              |
| 5       | Safety requirements  | -              |
| 5.1     | General safety requirements  | P              |
| 5.2     | Additional safety requirements for chairs sizemarks 0 to 3                                 | P (See Note#2) |
| 5.3     | Additional safety requirements for chairs sizemarks 0 to 1                                 | P              |
| 6       | Testing of chairs  | -              |
| 6.1     | General  | -              |
| 6.2     | Stability  | -              |
| 6.2.1   | General  | -              |
| 6.2.2   | Forward overturning (EN 1022:2018, 7.3.1 and 7.3.2)  | P              |
| 6.2.3   | Sideways overturning   | -              |
| 6.2.3.1 | Sideways overturning of chairs without armrests (EN 1022:2018, 7.3.4)                      | NA             |
| 6.2.3.2 | Sideways overturning of chairs with armrests (EN 1022:2018, 7.3.5.2)                       | P              |
| 6.2.4   | Rearwards overturning for all chairs with backrests (EN 1022:2018, 7.3.6)                  | P              |
| 6.2.5   | Additional overturning requirement for chairs with reclining backrests (EN 1022:2018, 7.4) | NA             |
| 6.2.6   | Corner stability (EN 1022:2018, 7.3.3)   | NA             |
| 6.3     | Strength and durability  | -              |
| 6.3.1   | General  | -              |
| 6.3.2   | Seat and back static load (EN 1728:2012, 6.4)  | P              |
| 6.3.3   | Seat and back durability (EN 1728:2012, 6.17)  | NA             |
| 6.3.4   | Seat front edge durability (EN 1728:2012, 6.18)  | NA             |
| 6.3.5   | Leg sideways static load (EN 1728:2012, 6.16)  | NA             |
| 6.3.6   | Leg forward static load (EN 1728:2012, 6.15)   | NA             |
| 6.3.7   | Seat impact (EN 1728:2012, 6.24)   | P              |
| 6.3.8   | Back impact (EN 1728:2012, 6.25)   | P              |
| 6.3.9   | Foot rail static load (EN 1728:2012, 6.8)  | NA             |
| 6.3.10  | Drop test (EN 1728:2012, 6.27.3)   | P              |
| 6.3.11  | Foot rest durability (EN 1728:2012, 6.21)  | NA             |
| 6.3.12  | Armrest durability (EN 1728:2012, 6.20)  | NA             |





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|        |   |    |
|--------|---|----|
| 6.3.13 | Armrest static load (EN 1728:2012)                                      | P  |
| 6.3.14 | Side to side durability test (EN 1728:2012)                             | NA |
| 6.3.15 | Vertical static load on auxiliary writing surfaces (EN 1728:2012, 6.14) | NA |
| 6.3.16 | Auxiliary writing surface durability test                               | NA |
| 7      | Testing of tables   | -  |
| 7.1    | Stability   | -  |
| 7.1.1  | General   | -  |
| 7.1.2  | Stability of tables, vertical load (EN 1730:2012, 7.2)                  | NA |
| 7.1.3  | Stability of tables, horizontal impact (EN 1728:2012, 6.25)             | NA |
| 7.2    | Strength and durability of tables                                       | -  |
| 7.2.1  | General   | -  |
| 7.2.2  | Horizontal static load (EN 1730:2012, 6.2)                              | NA |
| 7.2.3  | Horizontal durability (EN 1730:2012, 6.4.2)                             | NA |
| 7.2.4  | Vertical static load (EN 1730:2012, 6.3.1)                              | NA |
| 7.2.5  | Vertical durability (EN 1730:2012, 6.5)                                 | NA |

Abbreviation: **P**=Pass; **NA**= Not Applicable;

### Note:

#1 Description:

Chair:

Overall dimensions (mm): 357 (Depth) x 280 (width) x 390 (Height)

Weight (kg): 1.79kg

Seat height: 210mm

#2. Only artwork of marking was provided for review, the instruction for use was not provided.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 14, 2024

### 3.Lead (Pb) Content

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested Component | Result (%) | Limit (%) |
|------------------|------------|-----------|
| (1)              | ND         | 0.05      |
| (2)              | ND         | 0.05      |
| (3)              | ND         | 0.05      |
| (5)              | ND         | 0.05      |
| (6)              | ND         | 0.05      |

Remark: ND = Not Detected (Less than detection limit)

Detection Limit = 0.002%

Tested Components: See component list in the last section of this report.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024



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**4.Cadmium (Cd) Content**

With reference to methods IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

| <u>Tested Component</u> | <u>Result in %</u> |
|-------------------------|--------------------|
| (1)                     | ND                 |
| (2)                     | ND                 |
| (3)                     | ND                 |
| (5)                     | ND                 |

| Requirement:                                |                  |
|---|------------------|
| <u>Category</u>                             | <u>Limit (%)</u> |
| Painted article                             | 0.1              |
| Plastic                                     | 0.01             |
| Metal parts of jewellery & hair accessories | 0.01             |

Remark: ND = Not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024



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**5.SVHC Testing**

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.

(a) The First List (15 SVHC Released in October, 2008)

| No. | Chemical Substance   | CAS No.  | Results (%w/w) |     |     |     |     |     |     |
|-----|--|--|----------------|-----|-----|-----|-----|-----|-----|
|     |  |  | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 1   | Cobalt Dichloride Δ  | 7646-79-9  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 2   | Diarsenic Pentaoxide Δ   | 1303-28-2  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 3   | Diarsenic Trioxide Δ   | 1327-53-3  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 4   | Lead Hydrogen Arsenate Δ   | 7784-40-9  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 5   | Triethyl Arsenate Δ  | 15606-95-8   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 6   | Sodium Dichromate Δ  | 7789-12-0,<br>10588-01-9   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 7   | Bis (Tributyltin) Oxide (TBTO) Δ   | 56-35-9  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 8   | Anthracene   | 120-12-7   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 9   | 4,4'-Diaminodiphenylmethane (MDA)  | 101-77-9   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 10  | Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 25637-99-4 and<br>3194-55-6<br>(134237-50-6,<br>134237-51-7,<br>134237-52-8) | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 11  | 5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)   | 81-15-2  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 12  | Bis (2-Ethylhexyl) Phthalate (DEHP)  | 117-81-7   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 13  | Dibutyl Phthalate (DBP)  | 84-74-2  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 14  | Benzyl Butyl Phthalate (BBP)   | 85-68-7  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 15  | Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )  | 85535-84-8   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |

(b) The Second List (13 SVHC Release in January, 2010 and March, 2010)

| No. | Chemical Substance  | CAS No.    | Results (%w/w) |     |     |     |     |     |     |
|-----|---|------------|----------------|-----|-----|-----|-----|-----|-----|
|     |   |            | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 16  | Lead Chromate Δ   | 7758-97-6  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 17  | Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ | 12656-85-8 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 18  | Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ          | 1344-37-2  | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 19  | Tris (2-Chloroethyl) Phosphate                                | 115-96-8   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 20  | 2,4-Dinitrotoluene  | 121-14-2   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 21  | Diisobutyl Phthalate (DIBP)                                   | 84-69-5    | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 22  | Coal Tar Pitch, High Temperature                              | 65996-93-2 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 23  | Anthracene Oil  | 90640-80-5 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 24  | Anthracene Oil, Anthracene Paste, Distn. Lights               | 91995-17-4 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 25  | Anthracene Oil, Anthracene Paste, Anthracene Fraction         | 91995-15-2 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 26  | Anthracene Oil, Anthracene-low                                | 90640-82-7 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 27  | Anthracene Oil, Anthracene Paste                              | 90640-81-6 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 28  | Acrylamide  | 79-06-1    | ND             | ND  | ND  | ND  | ND  | ND  | ND  |

(c) The Third List (8 SVHC Release in June, 2010)



**Test Report**

Number: SHAH01681549

Tests Conducted

| No. | Chemical Substance                        | CAS No.                                | Results (%w/w) |     |     |     |     |     |     |    |
|-----|---|--|----------------|-----|-----|-----|-----|-----|-----|----|
|     |   |  | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 29  | Boric Acid Δ                              | 10043-35-3,<br>11113-50-1              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 30  | Disodium Tetraborate, Anhydrous Δ         | 1330-43-4,<br>12179-04-3,<br>1303-96-4 | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 31  | Tetraboron Disodium Heptaoxide, Hydrate Δ | 12267-73-1                             | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 32  | Sodium Chromate Δ                         | 7775-11-3                              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 33  | Potassium Chromate Δ                      | 7789-00-6                              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 34  | Ammonium Dichromate Δ                     | 7789-09-5                              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 35  | Potassium Dichromate Δ                    | 7778-50-9                              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 36  | Trichloroethylene                         | 79-01-6                                | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(d) The Fourth List (8 SVHC Release in December, 2010)

| No. | Chemical Substance   | CAS No.                       | Results (%w/w) |     |     |     |     |     |     |    |
|-----|--|-------------------------------|----------------|-----|-----|-----|-----|-----|-----|----|
|     |  |                               | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 37  | 2-Methoxyethanol   | 109-86-4                      | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 38  | 2-Ethoxyethanol  | 110-80-5                      | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 39  | Cobalt Sulphate Δ  | 10124-43-3                    | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 40  | Cobalt Dinitrate Δ   | 10141-05-6                    | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 41  | Cobalt Carbonate Δ   | 513-79-1                      | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 42  | Cobalt Diacetate Δ   | 71-48-7                       | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 43  | Chromium Trioxide Δ  | 1333-82-0                     | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 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>-- | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(e) The Fifth List (7 SVHC Release in June, 2011)

| No. | Chemical Substance  | CAS No.               | Results (%w/w) |     |     |     |     |     |     |    |
|-----|---|-----------------------|----------------|-----|-----|-----|-----|-----|-----|----|
|     |   |                       | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 45  | Strontium ChromateΔ   | 7789-06-2             | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 46  | 2-ethoxyethyl acetate (2-EEA)   | 111-15-9              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 47  | 1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)          | 68515-42-4            | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 48  | Hydrazine   | 7803-57-8<br>302-01-2 | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 49  | 1-methyl-2-pyrrolidone  | 872-50-4              | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 50  | 1,2,3-trichloropropane  | 96-18-4               | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 51  | 1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP) | 71888-89-6            | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(f) The Sixth List (20 SVHC Release in December, 2011)

| No. | Chemical Substance                           | CAS No.    | Results (%w/w) |     |     |     |     |     |     |    |
|-----|--|------------|----------------|-----|-----|-----|-----|-----|-----|----|
|     |  |            | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 52  | Lead dipicrateΔ                              | 6477-64-1  | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 53  | Lead styphnateΔ                              | 15245-44-0 | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 54  | Lead azide; Lead diazideΔ                    | 13424-46-9 | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 55  | Phenolphthalein                              | 77-09-8    | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 56  | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4   | ND             | ND  | ND  | ND  | ND  | ND  | ND  | ND |



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Tests Conducted

|    |   |                          |    |    |    |    |    |    |    |
|----|---|--------------------------|----|----|----|----|----|----|----|
| 57 | N,N-dimethylacetamide (DMAC)  | 127-19-5                 | ND | ND | ND | ND | ND | ND | ND |
| 58 | Trilead diarsenate $\Delta$   | 3687-31-8                | ND | ND | ND | ND | ND | ND | ND |
| 59 | Calcium arsenate $\Delta$   | 7778-44-1                | ND | ND | ND | ND | ND | ND | ND |
| 60 | Arsenic acid $\Delta$   | 7778-39-4                | ND | ND | ND | ND | ND | ND | ND |
| 61 | Bis(2-methoxyethyl) ether   | 111-96-6                 | ND | ND | ND | ND | ND | ND | ND |
| 62 | 1,2-Dichloroethane  | 107-06-2                 | ND | ND | ND | ND | ND | ND | ND |
| 63 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                | 140-66-9                 | ND | ND | ND | ND | ND | ND | ND |
| 64 | 2-Methoxyaniline; o-Anisidine   | 90-04-0                  | ND | ND | ND | ND | ND | ND | ND |
| 65 | Bis(2-methoxyethyl) phthalate (DMEP)                                    | 117-82-8                 | ND | ND | ND | ND | ND | ND | ND |
| 66 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4               | ND | ND | ND | ND | ND | ND | ND |
| 67 | Pentazinc chromate octahydroxide $\Delta$                               | 49663-84-5               | ND | ND | ND | ND | ND | ND | ND |
| 68 | Potassium hydroxyoctaoxodizincate di-chromate $\Delta$                  | 11103-86-9               | ND | ND | ND | ND | ND | ND | ND |
| 69 | Dichromium tris(chromate) $\Delta$                                      | 24613-89-6               | ND | ND | ND | ND | ND | ND | ND |
| 70 | Aluminosilicate Refractory Ceramic Fibres $\Delta$                      | (Index No. 650-017-00-8) | ND | ND | ND | ND | ND | ND | ND |
| 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres $\Delta$             | (Index No. 650-017-00-8) | ND | ND | ND | ND | ND | ND | ND |

(g) The Seventh List (13 SVHC Release in June, 2012)

| No. | Chemical Substance   | CAS No.    | Results (% w/w) |     |     |     |     |     |     |
|-----|--|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 72  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 74  | Diboron trioxide $\Delta$  | 1303-86-2  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 75  | Formamide  | 75-12-7    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 76  | Lead(II) bis(methanesulfonate) $\Delta$  | 17570-76-2 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 77  | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 78  | $\beta$ -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 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 79  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 90-94-8    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 80  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |





**Test Report**

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Tests Conducted

|    |  |           |    |    |    |    |    |    |    |
|----|--|-----------|----|----|----|----|----|----|----|
| 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 | ND | ND | ND | ND | ND | ND | ND |
| 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  | ND | ND | ND | ND | ND | ND | ND |

(h) The Eighth List (54 SVHC Release in December, 2012)

| No. | Chemical Substance  | CAS No.    | Results (% w/w) |     |     |     |     |     |     |
|-----|---|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 85  | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 1163-19-5  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 86  | Pentacosafuorotridecanoic acid  | 72629-94-8 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 87  | Tricosafuorododecanoic acid   | 307-55-1   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 88  | Henicosafuoroundecanoic acid  | 2058-94-8  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 89  | Heptacosafuorotetradecanoic acid  | 376-06-7   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 90  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 91  | Cyclohexane-1,2-dicarboxylic anhydride [1]  | 85-42-7    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
|     | cis-cyclohexane-1,2-dicarboxylic anhydride [2]  | 13149-00-3 |                 |     |     |     |     |     |     |
|     | trans-cyclohexane-1,2-dicarboxylic anhydride [3]  | 14166-21-3 |                 |     |     |     |     |     |     |
|     | [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].   |            |                 |     |     |     |     |     |     |
| 92  | Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]   | 25550-51-0 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
|     |   | 19438-60-9 |                 |     |     |     |     |     |     |
|     |   | 48122-14-1 |                 |     |     |     |     |     |     |
|     |   | 57110-29-9 |                 |     |     |     |     |     |     |
|     | [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]  |            |                 |     |     |     |     |     |     |
| 93  | 4-Nonylphenol, branched and linear<br><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] | --         | ND              | ND  | ND  | ND  | ND  | ND  | ND  |



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Tests Conducted

|     |   |             |    |    |    |    |    |    |    |
|-----|---|-------------|----|----|----|----|----|----|----|
| 94  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br><br>[covering well-defined substances and UVCB substances, polymers and homologues]  | --          | ND | ND | ND | ND | ND | ND | ND |
| 95  | Methoxyacetic acid  | 625-45-6    | ND | ND | ND | ND | ND | ND | ND |
| 96  | N,N-dimethylformamide   | 68-12-2     | ND | ND | ND | ND | ND | ND | ND |
| 97  | Dibutyltin dichloride (DBTC) Δ  | 683-18-1    | ND | ND | ND | ND | ND | ND | ND |
| 98  | Lead monoxide (Lead oxide) Δ  | 1317-36-8   | ND | ND | ND | ND | ND | ND | ND |
| 99  | Orange lead (Lead tetroxide) Δ  | 1314-41-6   | ND | ND | ND | ND | ND | ND | ND |
| 100 | Lead bis(tetrafluoroborate) Δ   | 13814-96-5  | ND | ND | ND | ND | ND | ND | ND |
| 101 | Trilead bis(carbonate)dihydroxide Δ   | 1319-46-6   | ND | ND | ND | ND | ND | ND | ND |
| 102 | Lead titanium trioxideΔ   | 12060-00-3  | ND | ND | ND | ND | ND | ND | ND |
| 103 | Lead titanium zirconium oxideΔ  | 12626-81-2  | ND | ND | ND | ND | ND | ND | ND |
| 104 | Silicic acid, lead salt Δ   | 11120-22-2  | ND | ND | ND | ND | ND | ND | ND |
| 105 | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-dopedΔ<br><br>[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  | ND | ND | ND | ND | ND | ND | ND |
| 106 | 1-bromopropane (n-propyl bromide)   | 106-94-5    | ND | ND | ND | ND | ND | ND | ND |
| 107 | Methyloxirane (Propylene oxide)   | 75-56-9     | ND | ND | ND | ND | ND | ND | ND |
| 108 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | ND | ND | ND | ND | ND | ND | ND |
| 109 | Diisopentylphthalate (DIPP)   | 605-50-5    | ND | ND | ND | ND | ND | ND | ND |
| 110 | N-pentyl-isopentylphthalate   | 776297-69-9 | ND | ND | ND | ND | ND | ND | ND |
| 111 | 1,2-diethoxyethane  | 629-14-1    | ND | ND | ND | ND | ND | ND | ND |
| 112 | Acetic acid, lead salt, basicΔ  | 51404-69-4  | ND | ND | ND | ND | ND | ND | ND |
| 113 | Lead oxide sulfateΔ   | 12036-76-9  | ND | ND | ND | ND | ND | ND | ND |
| 114 | [Phthalato(2-)]dioxotrileadΔ  | 69011-06-9  | ND | ND | ND | ND | ND | ND | ND |
| 115 | Dioxobis(stearato)trileadΔ  | 12578-12-0  | ND | ND | ND | ND | ND | ND | ND |
| 116 | Fatty acids, C16-18, lead saltsΔ  | 91031-62-8  | ND | ND | ND | ND | ND | ND | ND |
| 117 | Lead cyanamideΔ   | 20837-86-9  | ND | ND | ND | ND | ND | ND | ND |
| 118 | Lead dinitrateΔ   | 10099-74-8  | ND | ND | ND | ND | ND | ND | ND |
| 119 | Pentalead tetraoxide sulphateΔ  | 12065-90-6  | ND | ND | ND | ND | ND | ND | ND |
| 120 | Pyrochlore, antimony lead yellowΔ   | 8012-00-8   | ND | ND | ND | ND | ND | ND | ND |
| 121 | Sulfurous acid, lead salt, dibasicΔ   | 62229-08-7  | ND | ND | ND | ND | ND | ND | ND |
| 122 | TetraethylleadΔ   | 78-00-2     | ND | ND | ND | ND | ND | ND | ND |
| 123 | Tetralead trioxide sulphateΔ  | 12202-17-4  | ND | ND | ND | ND | ND | ND | ND |
| 124 | Trilead dioxide phosphonateΔ  | 12141-20-7  | ND | ND | ND | ND | ND | ND | ND |
| 125 | Furan   | 110-00-9    | ND | ND | ND | ND | ND | ND | ND |
| 126 | Diethyl sulphate  | 64-67-5     | ND | ND | ND | ND | ND | ND | ND |
| 127 | Dimethyl sulphate   | 77-78-1     | ND | ND | ND | ND | ND | ND | ND |
| 128 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 143860-04-2 | ND | ND | ND | ND | ND | ND | ND |
| 129 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)   | 88-85-7     | ND | ND | ND | ND | ND | ND | ND |
| 130 | 4,4'-methylenedi-o-toluidine  | 838-88-0    | ND | ND | ND | ND | ND | ND | ND |
| 131 | 4,4'-oxydianiline and its salts   | 101-80-4    | ND | ND | ND | ND | ND | ND | ND |



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Tests Conducted

|     |   |          |    |    |    |    |    |    |    |
|-----|---|----------|----|----|----|----|----|----|----|
| 132 | 4-aminoazobenzene                                 | 60-09-3  | ND | ND | ND | ND | ND | ND | ND |
| 133 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7  | ND | ND | ND | ND | ND | ND | ND |
| 134 | 6-methoxy-m-toluidine (p-cresidine)               | 120-71-8 | ND | ND | ND | ND | ND | ND | ND |
| 135 | Biphenyl-4-ylamine                                | 92-67-1  | ND | ND | ND | ND | ND | ND | ND |
| 136 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]    | 97-56-3  | ND | ND | ND | ND | ND | ND | ND |
| 137 | o-toluidine                                       | 95-53-4  | ND | ND | ND | ND | ND | ND | ND |
| 138 | N-methylacetamide                                 | 79-16-3  | ND | ND | ND | ND | ND | ND | ND |

(i) The Ninth List (6 SVHC Release in June, 2013)

| No. | Chemical Substance  | CAS No.   | Results (%.w/w) |     |     |     |     |     |     |
|-----|---|-----------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |           | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 139 | Cadmium $\Delta$  | 7440-43-9 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 140 | Cadmium oxide $\Delta$  | 1306-19-0 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 141 | Dipentyl phthalate (DPP)  | 131-18-0  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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] | --        | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 143 | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 144 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(j) The Tenth List (7 SVHC Release in December, 2013)

| No. | Chemical Substance   | CAS No.    | Results (%.w/w) |     |     |     |     |     |     |
|-----|--|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 145 | Cadmium sulphide $\Delta$  | 1306-23-6  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 146 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 148 | Dihexyl phthalate  | 84-75-3    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)   | 96-45-7    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 150 | Lead di(acetate) $\Delta$  | 301-04-2   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 151 | Trixylyl phosphate   | 25155-23-1 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(k) The Eleventh List (4 SVHC Release in June, 2014)

| No. | Chemical Substance   | CAS No.    | Results (%.w/w) |     |     |     |     |     |     |
|-----|--|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 153 | Cadmium chloride $\Delta$  | 10108-64-2 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |



**Test Report**

Number: SHAH01681549

Tests Conducted

|     |  |                           |    |    |    |    |    |    |    |
|-----|--|---------------------------|----|----|----|----|----|----|----|
| 154 | Sodium perborate;<br>Perboric acid, sodium saltΔ | 15120-21-5;<br>11138-47-9 | ND | ND | ND | ND | ND | ND | ND |
| 155 | Sodium peroxometaborateΔ                         | 7632-04-4                 | ND | ND | ND | ND | ND | ND | ND |

(l) The Twelfth List (6 SVHC Release in December, 2014)

| No. | Chemical Substance  | CAS No.                   | Results (% w/w) |     |     |     |     |     |     |
|-----|---|---------------------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |                           | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)  | 25973-55-1                | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)Δ   | 15571-58-1                | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 159 | Cadmium fluorideΔ   | 7790-79-6                 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 160 | Cadmium sulphateΔ   | 10124-36-4;<br>31119-53-6 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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)Δ | --                        | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(m) The Thirteenth List (2 SVHC Release in June, 2015)

| No. | Chemical Substance  | CAS No.                   | Results (% w/w) |     |     |     |     |     |     |
|-----|---|---------------------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |                           | (1)             | (2) | (3) | (4) | (5) | (6) | (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;<br>68648-93-1 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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] | --                        | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(n) The Fourteenth List (5 SVHC Release in December, 2015)

| No. | Chemical Substance   | CAS No.                               | Results (% w/w) |     |     |     |     |     |     |
|-----|--|---------------------------------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |                                       | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 164 | 1,3-Propanesultone   | 1120-71-4                             | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)      | 3864-99-1                             | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 36437-37-3                            | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 167 | Nitrobenzene   | 98-95-3                               | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 168 | Perfluorononan-1-ic-acid and its sodium and ammonium salts           | 375-95-1;<br>21049-39-8;<br>4149-60-4 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(o) The Fifteenth List (1 SVHC Release in June, 2016)



**Test Report**

Number: SHAH01681549

Tests Conducted

| No. | Chemical Substance                  | CAS No. | Results (%w/w) |     |     |     |     |     |     |
|-----|-------------------------------------|---------|----------------|-----|-----|-----|-----|-----|-----|
|     |                                     |         | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |

(p) The Sixteenth List (4 SVHC Release in January, 2017)

| No. | Chemical Substance  | CAS No. | Results (%w/w) |     |     |     |     |     |     |
|-----|---|---------|----------------|-----|-----|-----|-----|-----|-----|
|     |   |         | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A)   | 80-05-7 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | --      | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
|     | Nonadecafluorodecanoic acid<br>EC no.: 206-400-3   CAS no.: 335-76-2  |         |                |     |     |     |     |     |     |
|     | Ammonium nonadecafluorodecanoate<br>EC no.: 221-470-5   CAS no.: 3108-42-7  |         |                |     |     |     |     |     |     |
| 172 | Decanoic acid, nonadecafluoro-, sodium salt<br>EC no.: --   CAS no.: 3830-45-3  | --      | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
|     | 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] |         |                |     |     |     |     |     |     |
| 173 | p-(1,1-dimethylpropyl)phenol  | 80-46-6 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |

(q) The Seventeenth List (1 SVHC Release in July, 2017)

| No. | Chemical Substance                                    | CAS No. | Results (%w/w) |     |     |     |     |     |     |
|-----|---|---------|----------------|-----|-----|-----|-----|-----|-----|
|     |   |         | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 174 | Perfluorohexane-1-sulphonic acid and its salt (PFHxS) | --      | ND             | ND  | ND  | ND  | ND  | ND  | ND  |

(r) The Eighteenth List (7 SVHC Release in January, 2018)

| No. | Chemical Substance   | CAS No.    | Results (%w/w) |     |     |     |     |     |     |
|-----|--|------------|----------------|-----|-----|-----|-----|-----|-----|
|     |  |            | (1)            | (2) | (3) | (4) | (5) | (6) | (7) |
| 175 | Benz[a]anthracene  | 56-55-3    | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 176 | Cadmium nitrate $\Delta$   | 10325-94-7 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 177 | Cadmium carbonate $\Delta$   | 513-78-0   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 178 | Cadmium hydroxide $\Delta$   | 21041-95-2 | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 179 | Chrysene   | 218-01-9   | ND             | ND  | ND  | ND  | ND  | ND  | ND  |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof] | --         | ND             | ND  | ND  | ND  | ND  | ND  | ND  |





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Tests Conducted

|     |  |    |    |    |    |    |    |    |    |
|-----|--|----|----|----|----|----|----|----|----|
| 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] | -- | ND | ND | ND | ND | ND | ND | ND |
|-----|--|----|----|----|----|----|----|----|----|

(s) The Nineteenth List (10 SVHC Release in June, 2018)

| No. | Chemical Substance   | CAS No.    | Results (% w/w) |     |     |     |     |     |     |
|-----|--|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 182 | Octamethylcyclotetrasiloxane (D4)  | 556-67-2   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 183 | Decamethylcyclopentasiloxane (D5)  | 541-02-6   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 184 | Dodecamethylcyclohexasiloxane (D6)   | 540-97-6   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 185 | Lead   | 7439-92-1  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 186 | Disodium octaborate $\Delta$   | 12008-41-2 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 187 | Benzo[ghi]perylene   | 191-24-2   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 188 | Terphenyl hydrogenated   | 61788-32-7 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 189 | Ethylenediamine (EDA)  | 107-15-3   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA) | 552-30-7   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 191 | Dicyclohexyl phthalate (DCHP)  | 84-61-7    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(t) The Twentieth List (6 SVHC Release in January, 2019)

| No. | Chemical Substance  | CAS No.    | Results (% w/w) |     |     |     |     |     |     |
|-----|---|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 6807-17-6  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 193 | Benzo[k]fluoranthene  | 207-08-9   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 194 | Fluoranthene  | 206-44-0   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 195 | Phenanthrene  | 85-01-8    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 196 | Pyrene  | 129-00-0   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) | 15087-24-8 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(u) The Twenty-first List (4 SVHC Release in July, 2019)

| No. | Chemical Substance   | CAS No.  | Results (% w/w) |     |     |     |     |     |     |
|-----|--|----------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |          | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 198 | 4-tert-butylphenol (PTBP)  | 98-54-4  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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) | -        | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 200 | 2-methoxyethyl acetate   | 110-49-6 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                                       | -        | ND              | ND  | ND  | ND  | ND  | ND  | ND  |



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Tests Conducted

(v) The Twenty- second List (4 SVHC Release in Jan, 2020)

| No. | Chemical Substance                                       | CAS No.     | Results (% w/w) |     |     |     |     |     |     |    |
|-----|--|-------------|-----------------|-----|-----|-----|-----|-----|-----|----|
|     |  |             | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone      | 119313-12-1 | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 204 | Diisohexyl phthalate                                     | 71850-09-4  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts       | --          | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(w) The Twenty-third List (4 SVHC Release in Jun, 2020)

| No. | Chemical Substance                        | CAS No.    | Results (% w/w) |     |     |     |     |     |     |    |
|-----|---|------------|-----------------|-----|-----|-----|-----|-----|-----|----|
|     |   |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 206 | 1-vinylimidazole                          | 1072-63-5  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 207 | 2-methylimidazole                         | 693-98-1   | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 208 | Butyl 4-hydroxybenzoate                   | 94-26-8    | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin Δ | 22673-19-4 | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(X) The Twenty-fourth List (2 SVHC Release in Jan, 2021)

| No. | Chemical Substance   | CAS No.  | Results (% w/w) |     |     |     |     |     |     |    |
|-----|--|----------|-----------------|-----|-----|-----|-----|-----|-----|----|
|     |  |          | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 210 | Bis(2-(2-methoxyethoxy)ethyl) ether  | 143-24-8 | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 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 | -        | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |

(y) The Twenty-fifth List (8 SVHC Release in Jul, 2021)

| No. | Chemical Substance  | CAS No.   | Results (% w/w) |     |     |     |     |     |     |    |
|-----|---|---|-----------------|-----|-----|-----|-----|-----|-----|----|
|     |   |   | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 212 | 1,4-dioxane   | 123-91-1  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 213 | 2,2-bis(bromomethyl)propane 1,3-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 | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers  | --  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 215 | 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)  | 77-40-7   | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 216 | Glutaral  | 111-30-8  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 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] | --  | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |
| 218 | Orthoboric acid, sodium salt Δ  | 13840-56-7                                      | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |



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Tests Conducted

|     |   |    |    |    |    |    |    |    |    |
|-----|---|----|----|----|----|----|----|----|----|
| 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) | -- | ND | ND | ND | ND | ND | ND | ND |
|-----|---|----|----|----|----|----|----|----|----|

(z) The Twenty-sixth List (4 SVHC Release in Jan 2022)

| No. | Chemical Substance   | CAS No.     | Results (%.w/w) |     |     |     |     |     |     |
|-----|--|-------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |  |             | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 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) | --          | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)  | 119-47-1    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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) phosphorodithioateΔ   | 255881-94-8 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 223 | Tris(2-methoxyethoxy)vinylsilane   | 1067-53-4   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(aa) The Twenty-seventh List (1 SVHC Release in Jun 2022)

| No. | Chemical Substance          | CAS No.  | Results (%.w/w) |     |     |     |     |     |     |
|-----|-----------------------------|----------|-----------------|-----|-----|-----|-----|-----|-----|
|     |                             |          | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 224 | N-(hydroxymethyl)acrylamide | 924-42-5 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(ab) The Twenty-eighth List (9 SVHC Release in Jan 2023)

| No. | Chemical Substance  | CAS No.    | Results (%.w/w) |     |     |     |     |     |     |
|-----|---|------------|-----------------|-----|-----|-----|-----|-----|-----|
|     |   |            | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]  | 37853-59-1 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol  | 79-94-7    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 227 | 4,4'-sulphonyldiphenol  | 80-09-1    | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 228 | Barium diboron tetraoxideΔ  | 13701-59-2 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof  | --         | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 230 | Isobutyl 4-hydroxybenzoate  | 4247-02-3  | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 231 | Melamine  | 108-78-1   | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 232 | Perfluoroheptanoic acid and its salts   | --         | ND              | ND  | ND  | ND  | ND  | ND  | ND  |
| 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 | -          | ND              | ND  | ND  | ND  | ND  | ND  | ND  |

(ac) The Twenty-ninth List (2 SVHC Release in June 2023)

| No. | Chemical Substance                  | CAS No. | Results (%.w/w) |     |     |     |     |     |     |
|-----|-------------------------------------|---------|-----------------|-----|-----|-----|-----|-----|-----|
|     |                                     |         | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |
| 234 | bis(4-chlorophenyl) sulphone (BCPS) | 80-07-9 | ND              | ND  | ND  | ND  | ND  | ND  | ND  |



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|     |  |             |    |    |    |    |    |    |    |
|-----|--|-------------|----|----|----|----|----|----|----|
| 235 | Diphenyl (2,4,6- trimethylbenzoyl) phosphine oxide | 75980- 60-8 | ND | ND | ND | ND | ND | ND | ND |
|-----|--|-------------|----|----|----|----|----|----|----|

(ad) 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.  | Results (%.w/w) |     |     |     |     |     |     |    |
|-----|--------------------|----------|-----------------|-----|-----|-----|-----|-----|-----|----|
|     |                    |          | (1)             | (2) | (3) | (4) | (5) | (6) | (7) |    |
| 1   | Resorcinol         | 108-46-3 | ND              | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Reporting limit=0.010% (raw material)

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.

Notes:

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

REACH requirement:

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).

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.

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).

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.



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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.

Tested Component(s): See component list in the last section of this report.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024

**6. Dimethyl Fumarate (DMFu) Content**

With reference to PD CEN ISO/TS 16186: 2012, by solvent extraction, and followed by Gas Chromatography Mass Spectrometry (GC-MS) analysis.

| Test Item                | Result (mg/kg) | Reporting Limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|-------------------------|---------------|
|                          | (5)            |                         |               |
| Dimethyl Fumarate (DMFu) | ND             | 0.1                     | 0.1           |

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EU) No 412/2012, Annex XVII Entry 61 on Dimethyl Fumarate (DMFu) content.

Remark: ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report .

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024





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Tests Conducted

**7.Polycyclic Aromatic Hydrocarbons (PAHs) Content**

As Per AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

(I) Test Results:

| Test Item                                  | CAS No.  | Result (in mg/kg) |     |     |
|--|----------|-------------------|-----|-----|
|  |          | (1)               | (2) | (3) |
| 1.Phenanthrene                             | 85-01-8  | ND                | ND  | ND  |
| 2.Anthracene                               | 120-12-7 | ND                | ND  | ND  |
| 3.Fluoranthene                             | 206-44-0 | ND                | ND  | ND  |
| 4.Pyrene                                   | 129-00-0 | ND                | ND  | ND  |
| <b>Sum (4 PAHs):</b>                       | --       | ND                | ND  | ND  |
| 5.Naphthalene                              | 91-20-3  | ND                | ND  | ND  |
| 6.Benzo(a)Anthracene                       | 56-55-3  | ND                | ND  | ND  |
| 7.Chrysene                                 | 218-01-9 | ND                | ND  | ND  |
| 8.Indeno(1,2,3-cd)Pyrene                   | 193-39-5 | ND                | ND  | ND  |
| 9.Benzo(b)Fluoranthene                     | 205-99-2 | ND                | ND  | ND  |
| 10.Benzo(k)Fluoranthene                    | 207-08-9 | ND                | ND  | ND  |
| 11.Benzo(a)Pyrene                          | 50-32-8  | ND                | ND  | ND  |
| 12.Dibenzo(a,h)Anthracene                  | 53-70-3  | ND                | ND  | ND  |
| 13.Benzo(g,h,i)Perylene                    | 191-24-2 | ND                | ND  | ND  |
| 14.Benzo(e)Pyrene                          | 192-97-2 | ND                | ND  | ND  |
| 15. Benzo(j)Fluoranthene                   | 205-82-3 | ND                | ND  | ND  |
| <b>Sum (15 PAHs):</b>                      | --       | ND                | ND  | ND  |
| <b>Classification of Samples: Category</b> |          | 2a                | 2a  | 2a  |

ND= Not detected (Less than reporting limit)

Reporting limit = 0.2 mg/kg



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Tests Conducted

(II) Limits for PAHs in Products:

| Parameter              | Category 1   | Category 2  |       | Category 3   |     |
|------------------------|--|---|-------|--|-----|
|                        |  | 2a  | 2b    | 3a   | 3b  |
| --                     | Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use<br>- in toys according to Directive 2009/48/EC<br>or<br>-for the use by children up to 3 years of age | Materials that are not covered by Category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable<br>2a. used by children<br>2b. other consumer products |       | Materials that are not covered by Category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable<br>3a. used by children<br>3b. other consumer products |     |
| Phenanthrene           | --   | --  | --    | --   | --  |
| Anthracene             | --   | --  | --    | --   | --  |
| Fluoranthene           | --   | --  | --    | --   | --  |
| Pyrene                 | --   | --  | --    | --   | --  |
| <b>Sum (4 PAHs):</b>   | <1   | <5  | <10   | <20  | <50 |
| Naphthalene            | <1   | <2  | <2    | <10  | <10 |
| Benzo(a)Anthracene     | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Chrysene               | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Indeno(1,2,3-cd)Pyrene | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(b)Fluoranthene   | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(k)Fluoranthene   | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(a)Pyrene         | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Dibenzo(a,h)Anthracene | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(g,h,i)Perylene   | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(e)Pyrene         | <0.2   | <0.2  | <0.5  | <0.5   | <1  |
| Benzo(j)Fluoranthene   | <0.2   | <0.2  | < 0.5 | <0.5   | <1  |
| <b>Sum (15 PAHs):</b>  | <1   | <5  | <10   | <20  | <50 |

Tested Component(s): See component list in the last section of this report

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024



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Tests Conducted

**8.Pentachlorophenol (PCP) Content**

With reference to PD CEN/TR 14823: 2003 (Wood), solvent extraction was used and followed by Gas Chromatography-Mass Spectrometric (GC-MS) analysis.

| Test Item               | Result (mg/kg) |     | Detection Limit<br>(mg/kg) | Requirement (mg/kg)<br>(Max.) |
|-------------------------|----------------|-----|----------------------------|-------------------------------|
|                         | (5)            | (7) |                            |                               |
| Pentachlorophenol (PCP) | ND             | ND  | 0.1                        | 5                             |

The limit was quoted according to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content.

Remark: ND = Not Detected (Less than detection limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Apr 22 , 2024

Testing Period: Apr 22 , 2024 To May 13, 2024

**9.Organotin Content**

With reference to ISO/TS 16179: 2012, organotin content was determined by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

| Compound                               | Result (%. w/w) of tin |     |     |     | Requirement (%. w/w) of tin |
|--|------------------------|-----|-----|-----|-----------------------------|
|  | (1)                    | (2) | (3) | (4) |                             |
| Tri-substituted Organotin <sup>@</sup> | ND                     | ND  | ND  | ND  | 0.1                         |
| Dibutyl tin (DBT)                      | ND                     | ND  | ND  | ND  | 0.1                         |
| Dioctyl tin (DOT)                      | ND                     | ND  | ND  | ND  | 0.1                         |

Remark: The above requirement was quoted according to Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010 for organotin content.

Remarks: Detection Limit = 0.001% (w/w) of tin

<sup>@</sup> = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin,

Tri-octyltin, Tri-cyclohexyltin

ND = Not Detected

Tested Components: See component list in the last section of this report.

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### 10.Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) Content

By solvent extraction, determined by Gas Chromatography-Electron Capture Detector (GC-ECD) and Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCI-MS).

| <u>Tested Components</u> | <u>Result (% , w/w)</u> |
|--------------------------|-------------------------|
| (1)                      | ND                      |
| (2)                      | ND                      |
| (3)                      | ND                      |
| (4)                      | ND                      |

Requirement:

Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Remark: Detection Limit = 0.01% (w/w)

ND = Not detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Apr 22 , 2024

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### 11.Hexabromocyclododecane (HBCDD) Content

By solvent extraction and followed by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

| <u>Tested Components</u> | <u>Result (mg/kg)</u> | <u>Requirement (mg/kg)</u><br><u>(Max.)</u> |
|--------------------------|-----------------------|---|
| (2)                      | ND                    | 100   |
| (3)                      | ND                    | 100   |

Remark: ND=Not Detected

Detection Limit = 10mg/kg

Tested Component(s): See component list in the last section of this report.

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**12. Phthalate Content**

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

**I. Annex XVII Item 51**

| Test Item                      | CAS No.  | Result (%.w/w) |     |     |     |     | Reporting Limit (%.w/w) | Limit (%.w/w) |
|--------------------------------|----------|----------------|-----|-----|-----|-----|-------------------------|---------------|
|                                |          | (1)            | (2) | (3) | (4) | (5) |                         |               |
| Dibutyl phthalate (DBP)        | 84-74-2  | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Diethyl hexyl phthalate (DEHP) | 117-81-7 | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Benzyl butyl phthalate (BBP)   | 85-68-7  | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Diisobutyl phthalate (DIBP)    | 84-69-5  | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Sum of DBP, DEHP, BBP and DIBP | -        | ND             | ND  | ND  | ND  | ND  | -                       | 0.1           |

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

**II. Annex XVII Item 52**

| Test Item                   | CAS No.                   | Result (%.w/w) |     |     |     |     | Reporting Limit (%.w/w) | Limit (%.w/w) |
|-----------------------------|---------------------------|----------------|-----|-----|-----|-----|-------------------------|---------------|
|                             |                           | (1)            | (2) | (3) | (4) | (5) |                         |               |
| Di-n-octyl phthalate (DnOP) | 117-84-0                  | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Diisononyl phthalate (DINP) | 28553-12-0/<br>68515-48-0 | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Diisodecyl phthalate (DIDP) | 26761-40-0/<br>68515-49-1 | ND             | ND  | ND  | ND  | ND  | 0.005                   | -             |
| Sum of DINP, DNOP and DIDP  | -                         | ND             | ND  | ND  | ND  | ND  | -                       | 0.1           |

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: ND = Not Detected(Less than reporting limit)

Tested Components: See component list in the last section of this report.

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**13. Arsenic Compounds Content**

By acid digestion, and following by Inductively Coupled Plasma Optical Emission Spectrometer analysis.

| Test Item                       | Result (mg/kg) of As | Reporting Limit | Limit   |
|---------------------------------|----------------------|-----------------|---------|
|                                 | (7)                  | (mg/kg)         | (mg/kg) |
| Arsenic (As) compounds $\Delta$ | ND                   | 10              | ND      |

Remark: ND = Not detected (Less than reporting limit)

$\Delta$  = Determination was based on elemental analysis.

Tested component(s): See component list in the last section of this report.

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Testing Period: Apr 22, 2024 To May 13, 2024

**14. Phenylmercury Compounds Content**

By acid digestion, and followed by Inductively Coupled Plasma Optical Emission Spectrometer analysis.

| Test Item  | Result (%) of Hg | Reporting Limit | Limit     |
|--|------------------|-----------------|-----------|
|  | (7)              | (%) of Hg       | (%) of Hg |
| Phenylmercury Compounds of (Phenylmercury acetate, Phenylmercury propionate, Phenylmercury 2-ethylhexanoate, Phenylmercury octanoate, and Phenylmercury neodecanoate) $\Delta$ | ND               | 0.001           | 0.01      |

The above limit was quoted according to Annex XVII Items 62 of the REACH Regulation (EC) no. 1907/2006& Amendment No. 552/2009 and No. 848/2012 for phenylmercury compounds content.

Remark: ND = Not detected (Less than reporting limit)

$\Delta$  = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case

Tested Components: See component list in the last section of this report.

Date Sample Received: Apr 22, 2024

Testing Period: Apr 22, 2024 To May 13, 2024

**Tested components:**

- (1) Transparent Vanish coating on wood
- (2) Wooden sticker (surface)
- (3) Beige plastic (body)
- (4) Grey felt fabric with adhesive (footpad)
- (5) Plywood
- (6) Silvery metal screw (bottom of seat)





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Tests Conducted



Picture 1: Submitted sample

\*\*\*\*\*  
End of report

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