

Test Report

Report No.: U02803230830115-3E

Query Password: QW7399

Date: Sep. 5, 2023

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Applicant: HAHOWA CO., Ltd

Contact information: 4D-428 Software Industry Base, Yuehai Street, Nanshan District, Shenzhen, China.

The following sample(s) was (were) submitted and identified by client as:

Sample Description : Jigsaw puzzle series
Item No. : Please refer to next page(s).
Received Date : Aug. 30, 2023
Testing Period : From Aug. 30, 2023 to Sep. 5, 2023
Test Request : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by



Lili Zeng

Checked by



Thea Ye

Approved by



Hedy Xu

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Summary of Test Results (Tested parts are required partially by client):

TEST REQUEST

(1) Entry 50 of Annex XVII of the REACH regulation (EC) No.1907/2006 and its subsequent amendments

Polycyclic aromatic hydrocarbons (PAHs) Category 3

CONCLUSION**PASS**

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| |
|--|
| Item No.: |
| 1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1225,2001,2002,2003,2004,2005,2006,2008,2009,S1001,S1002,S1003,S1004,S1005,S1006,S1007,S1008,S1009,S1010,S1011,S1012,S1013,S1014,S1015,S1016,S1017,S1018,S1019,S1020,S1021,S1022,S1023,S1024,S1025,S1026,S1027,1027S,S1028,S1029,S1030,S1031,S1032,S1033,S1034,S1035,S1036,S1037,S1038,S1039,S1040,S1225,ST1001,ST1002,ST1003,ST1004,ST1005,T1001,T1002,T1003,T1004,T1005,T1006,T1007,T1008,T1009,T1010,T1011,T1012,T1225,3100,3101,3102,3103,3104,3105,3106,3107,3108,3109,3120,HD1080,HD1081,HD1082,HD1083,HD1084,HD1085,HD1086,S388,S389,S390,S391,S392,S393,S394,T537,T538,T539 |

Test Material(s) List

| Material No. | Description |
|--------------|--|
| 1 | Green plastic |
| 2 | White plastic |
| 3 | White PU with multi-color printing |
| 4 | Multi-color coating |
| 5 | Laminated white/gray cardboard with multi-color printing |
| 6 | White double-sided adhesive |
| 7 | White paper |

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Test Result(s):

(1) Polycyclic aromatic hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, was analyzed by Gas Chromatographic - Mass Spectrometer (GC-MS).

| Test Substance | CAS No. | Unit | MDL | Result (mg/kg) | |
|--------------------------------|----------|-------|-----|----------------|------|
| | | | | 1+2 | 3 |
| Benzo[a]pyrene (BaP) | 50-32-8 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[e]pyrene (BeP) | 192-97-2 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[a]anthracene (BaA) | 56-55-3 | mg/kg | 0.2 | N.D. | N.D. |
| Chrysen (CHR) | 218-01-9 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[b]fluoranthene (BbFA) | 205-99-2 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[j]fluoranthene (BjFA) | 205-82-3 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[k]fluoranthene (BkFA) | 207-08-9 | mg/kg | 0.2 | N.D. | N.D. |
| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3 | mg/kg | 0.2 | N.D. | N.D. |
| SUM of 8 PAHs | / | mg/kg | / | N.D. | N.D. |
| Conclusion | | | | PASS | PASS |

| Test Substance | CAS No. | Unit | MDL | Result (mg/kg) | |
|--------------------------------|----------|-------|-----|----------------|-------|
| | | | | 4 | 5+6+7 |
| Benzo[a]pyrene (BaP) | 50-32-8 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[e]pyrene (BeP) | 192-97-2 | mg/kg | 0.2 | N.D. | N.D. |
| Benzo[a]anthracene (BaA) | 56-55-3 | mg/kg | 0.2 | N.D. | N.D. |
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| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3 | mg/kg | 0.2 | N.D. | N.D. |
| SUM of 8 PAHs | / | mg/kg | / | N.D. | N.D. |
| Conclusion | | | | PASS | PASS |

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Limit (Unit: mg/kg):

| Category | Category 1 | Category 2 | Category 3 |
|--------------------------------|---|---|--------------|
| Description | extender oils or used for the production of tyres or parts of tyres | Non-toy articles for supply to the general public | Toy articles |
| Benzo[a]pyrene (BaP) | < 1 | < 1 | < 0.5 |
| Benzo[e]pyrene (BeP) | / | < 1 | < 0.5 |
| Benzo[a]anthracene (BaA) | / | < 1 | < 0.5 |
| Chrysen (CHR) | / | < 1 | < 0.5 |
| Benzo[b]fluoranthene (BbFA) | / | < 1 | < 0.5 |
| Benzo[j]fluoranthene (BjFA) | / | < 1 | < 0.5 |
| Benzo[k]fluoranthene (BkFA) | / | < 1 | < 0.5 |
| Dibenzo[a,h]anthracene (DBAhA) | / | < 1 | < 0.5 |
| SUM of 8 PAHs | < 10 | / | / |

Note:

1. mg/kg = milligram per kilogram (ppm).
2. MDL = method detection limit.
3. N.D.=not detected (<MDL).
4. "/"=Not regulated.
5. "+"= Mixed. The admixture of specimen is tested as a whole (part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the data in this report. The applicant will undertake all differences and risk.

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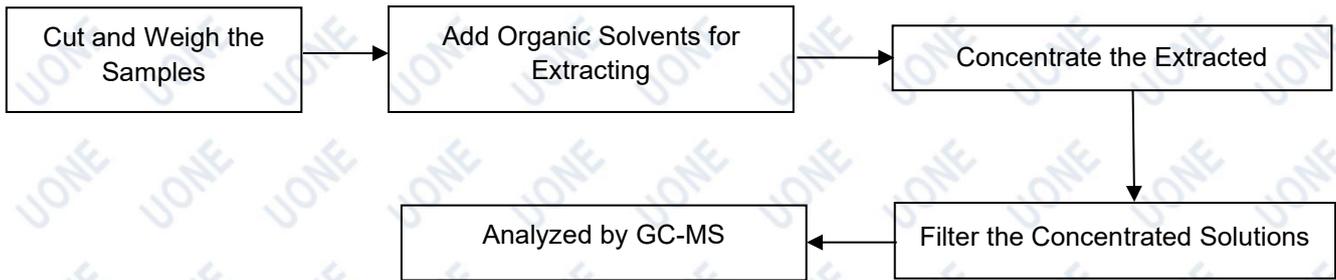
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Test Process Flow



Photo(s) of Sample:

The following photo(s) is(are) provided by the customer:



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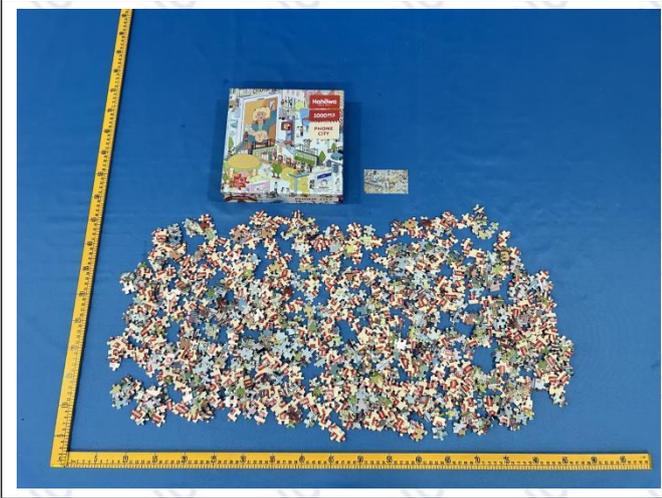
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End of Report

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Statement

1. The information as listed on the first page of this test report was all provided by the client except the received date, testing period, test result(s) and test request. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.
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