



76254-XXXX

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TEST REPORT

APPLICANT : OOLY, LLC

ADDRESS : 3923 Oceanic Drive, Suite 100 Oceanside, CA 92056

SAMPLE DESCRIPTION : Razzle Dazzle D.I.Y Gem Art Kit

ITEM NO. : 161-045,161-046,161-047,161-048

BUYER : OOLY, LLC

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : USA, Canada, Europe and Asia

AGE REQUESTED ON APPLICATION FORM : Not suitable for ages 8 and under

LABELED AGE GRADE : 8+

AGE GRADE APPLIED IN TESTING : Over 8 Years

SAMPLE RECEIVED DATE : 15-Jul-2019

SAMPLE RESUBMISSION DATE : 02-Aug-2019

TURN AROUND TIME : 15-Jul-2019 to 05-Aug-2019



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The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

| TEST REQUESTED | TEST METHOD/REGULATION | RESULT |
|---|--|--------|
| Physical and Mechanical Hazards | CPSC Regulations | Pass |
| Flammability Test | CPSC Regulations-1500.3(c)(6)(vi) | Pass |
| Total Lead Content in Paint / Surface Coating | US 16 CFR 1303 | Pass |
| Phthalates Content | CPSC 16 CFR part 1307 | Pass |
| Total Lead Content in Paint / Surface Coating | US CPSIA, Section 101 | Pass |
| Total Lead Content in Substrate | US CPSIA, Section 101 | Pass |
| Phthalates Content | US CPSIA, Section 108 | Pass |
| Total Lead Content | US California Proposition 65 | Pass |
| Phthalates Content | US California Proposition 65 | Pass |
| TPCH - Toxics in Packaging Clearinghouse (formerly CONEG) | US TPCH Legislation | Pass |
| Mechanical and Physical Properties | EN71 Part 1:2014+A1:2018 | Pass |
| Labeling Requirement | Directive 2009/48/EC | Pass |
| Flammability of Toys | EN71 Part 2:2011+A1:2014 | Pass |
| Migration of Certain Elements | EN71 Part 3:2013+A3:2018, Directive (EU) 2018/725. | Pass |
| Total Cadmium Content | REACH Annex XVII, Entry 23 | Pass |
| Polycyclic Aromatic Hydrocarbons (PAHs) | REACH Annex XVII, Entry 50 | Pass |
| Phthalates Content | REACH Annex XVII, Entry 51 & 52, (EU) 2018/2005 | Pass |
| Packaging and Packaging Waste | Directive 94/62/EC | Pass |

Eurofins (Shanghai) contact information

Customer service: OlivaLiu@eurofins.com / 021-36202801

Sales specialist: MariaJohnson@eurofins.com / 858-5687175 / 858-3549036

Sales specialist: MartyImler@eurofins.com / 858-568-7175 / 858-243-2464

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
 Eurofins Product Testing Service (Shanghai) Co., Ltd

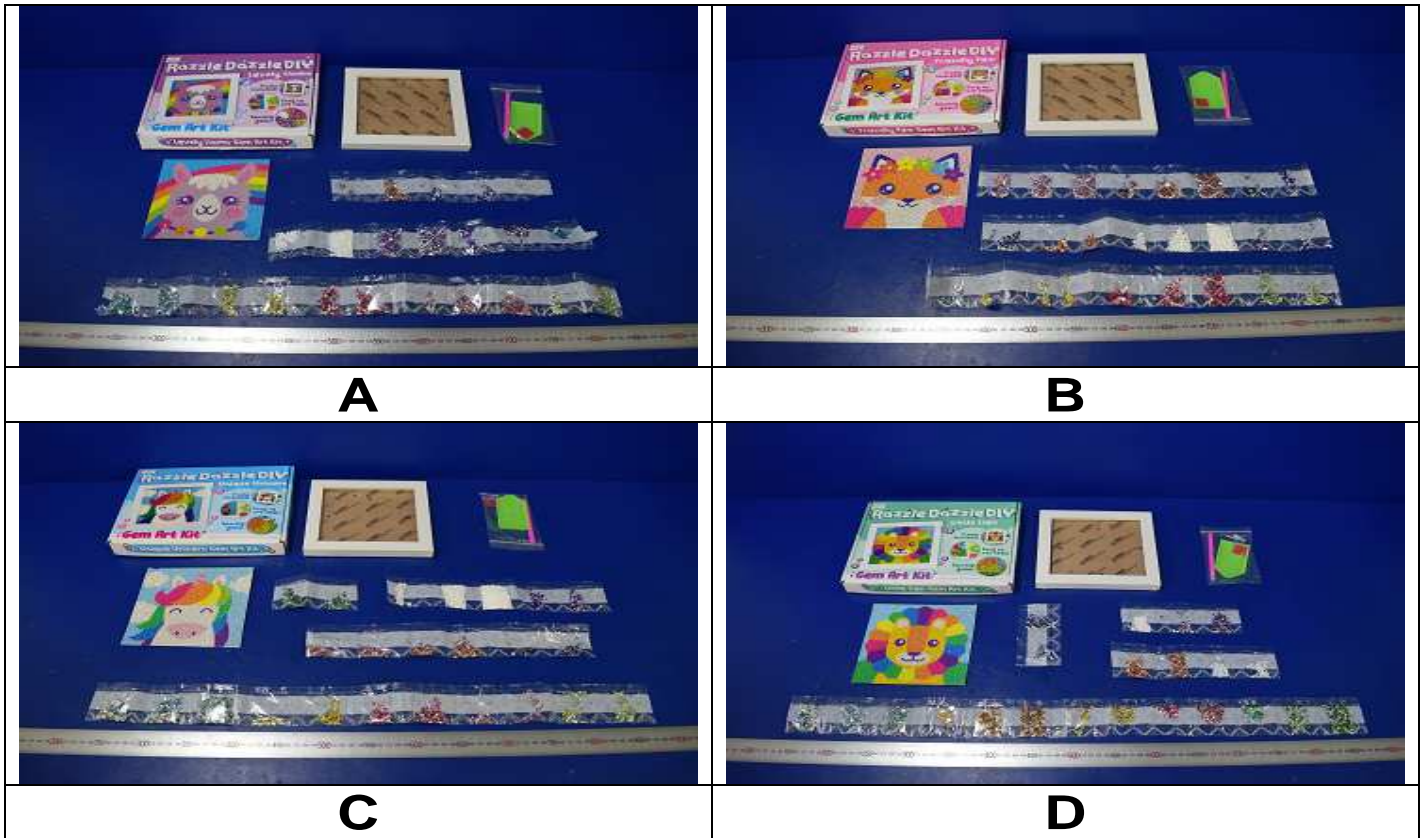
Joyce Liu
 Lab Manager

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.



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SAMPLE PHOTO(S)



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COMPONENT LIST

| Component No. | Component | Sample No. |
|---------------|---|------------|
| 1 | White coating on wood (photo frame) | A B C D |
| 2 | Transparent orange plastic with silver coating (rhinestone) | A B C D |
| 3 | Transparent light blue plastic with silver coating (rhinestone) | A B C D |
| 4 | Transparent green plastic with silver coating (rhinestone) | A B C |
| 5 | Transparent pink plastic with silver coating (rhinestone) | A B C |
| 6 | Transparent rose red plastic with silver coating (rhinestone) | A B C D |
| 7 | Transparent yellow plastic with silver coating (rhinestone) | A B C D |
| 8 | Transparent dark blue plastic with silver coating (rhinestone) | A B C |
| 9 | Transparent purple plastic with silver coating (rhinestone) | A B C D |
| 10 | Transparent dark green plastic with silver coating (rhinestone) | C D |
| 11 | Transparent light orange plastic with silver coating (rhinestone) | D |
| 12 | Red gel (square) | A B C D |
| 13 | Transparent soft plastic | A B C D |
| 14 | White plastic (rhinestone) | A B C D |
| 15 | Green plastic tray | A B C D |
| 16 | Pink plastic (pen) | A B C D |
| 17 | Transparent plastic (pen) | A B C D |
| 18 | Multi-color paper card with glue | A B C D |
| 19 | Brown MDF wood excluding coating (photo frame) | A B C D |
| 20 | Black plated metal (rivet) | A B C D |
| 21 | Black plated metal sheet | A B C D |
| 22 | Black plated metal (hinge) | A B C D |
| 23 | Black plated metal (hook) | A B C D |
| 24 | Golden metal (pen) | A B C D |
| 25 | Black coating on soft plastic (packaging bag) | A B C D |
| 26 | White coating on soft plastic (packaging bag) | A B C D |
| 27 | Transparent soft plastic excluding coating (packaging bag) | A B C D |
| 28 | Transparent soft plastic with black printing (packaging) | A B C D |
| 29 | Transparent soft plastic film (paper card packaging) | A B C D |
| 30 | Transparent soft plastic with red printing (packaging bag) | A B C D |
| 31 | Brown corrugated paper with transparent plastic film and underlying multi-color coating (packaging box) | A B C D |

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TEST RESULT

Physical and Mechanical Hazards

Test Request: The Mechanical Hazards Requirements of 16 CFR 1500, after Use and Abuse Tests.

| Description | Result |
|---|------------------------------------|
| The use and abuse tests conducted are: | As Received & Normal Use (1500.50) |
| 16 CFR 1500.47 & 1500.86(a)(6) – Sound Pressure Level produced by toy cap | N/A |
| 16 CFR 1501 – Small Parts | N/A |
| 16 CFR 1500.48 – Sharp Points | N/A |
| 16 CFR 1500.49 – Sharp Edges | N/A |
| 16 CFR 1510 – Rattles | N/A |
| 16 CFR 1511 – Pacifier | N/A |

Remark:

P – Pass

NA – Not Applicable

Flammability Test

Test Request: As per U.S. code of federal regulations title 16 CFR 1500.3(c)(6)(vi) for flammable solid, tested by the method described in 16 CFR 1500.44.

| Sample | Limit | Result |
|---------|-----------------|--------|
| A B C D | 0.1 inch/second | Pass |

Total Lead Content in Paint / Surface Coating

Test Request: Total lead content as specified in US 16 CFR 1303

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result |
|----------------|-------|-------|-----|--------|
| | | | | 1 |
| Total Lead(Pb) | mg/kg | 90 | 10 | ND |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

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TEST RESULT

Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.3

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---------------------------------|------------|------|-------|-------|--------|-----|-----|
| | | | | | 1 | 4+5 | 8+9 |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DHEXP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |
| Dicyclohexyl phthalate(DCHP) | 84-61-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisobutyl phthalate(DIBP) | 84-69-5 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---------------------------------|------------|------|-------|-------|--------|----|----|
| | | | | | 10+11 | 12 | 13 |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DHEXP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |
| Dicyclohexyl phthalate(DCHP) | 84-61-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisobutyl phthalate(DIBP) | 84-69-5 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---------------------------------|------------|------|-------|-------|----------|----|----|
| | | | | | 14+15+16 | 17 | 18 |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DHEXP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |
| Dicyclohexyl phthalate(DCHP) | 84-61-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisobutyl phthalate(DIBP) | 84-69-5 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Total Lead Content In Paint and Other Similar Surface Coatings

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101
 Test Method: CPSC-CH-E1003-09.1
 The sample was acid digested, and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|--------|--|--|--|
| | | | | 1 | | | |
| Total Lead | mg/kg | 90 | 10 | ND | | | |

Remark:
 mg/kg = milligram per kilogram
 MDL = method detection limit
 ND = Not detected, less than MDL

Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101
 Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3
 The sample was acid digested, and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|--------|-----|----|----|
| | | | | 2+3 | 6+7 | 12 | 13 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND |

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|----------|----|----|----|
| | | | | 14+15+16 | 17 | 18 | 19 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND |

| Tested Item(s) | Unit | Limit | MDL | Result | | | | |
|----------------|-------|-------|-----|--------|----|----|----|----|
| | | | | 20 | 21 | 22 | 23 | 24 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND | 39 |

Remark:
 mg/kg = milligram per kilogram
 MDL = method detection limit
 ND = Not detected, less than MDL
 As per client's request, only the appointed materials have been tested.
 According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 108

Test Method: CPSC-CH-C1001-09.3

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---|------------|------|-------|-------|--------|-----|-----|
| | | | | | 1 | 4+5 | 8+9 |
| For toys and childcare articles | | | | | | | |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Additional requirements for toys and childcare articles, which can be placed in the mouth by children | | | | | | | |
| Diisononyl phthalate (DINP) | 68515-48-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-iso-decylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---|------------|------|-------|-------|--------|----|----|
| | | | | | 10+11 | 12 | 13 |
| For toys and childcare articles | | | | | | | |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Additional requirements for toys and childcare articles, which can be placed in the mouth by children | | | | | | | |
| Diisononyl phthalate (DINP) | 68515-48-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-iso-decylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|---|------------|------|-------|-------|----------|----|----|
| | | | | | 14+15+16 | 17 | 18 |
| For toys and childcare articles | | | | | | | |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-2-ethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Additional requirements for toys and childcare articles, which can be placed in the mouth by children | | | | | | | |
| Diisononyl phthalate (DINP) | 68515-48-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-iso-decylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65
 Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
 Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|--------|--|--|--|
| | | | | 1 | | | |
| Total Lead(Pb) | mg/kg | 90 | 10 | ND | | | |

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|--------|-----|----|----|
| | | | | 2+3 | 6+7 | 12 | 13 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND |

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|----------------|-------|-------|-----|----------|----|----|----|
| | | | | 14+15+16 | 17 | 18 | 19 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND |

| Tested Item(s) | Unit | Limit | MDL | Result | | | | |
|----------------|-------|-------|-----|--------|----|----|----|----|
| | | | | 20 | 21 | 22 | 23 | 24 |
| Total Lead(Pb) | mg/kg | 100 | 10 | ND | ND | ND | ND | 39 |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

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TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US California Proposition 65
 Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|------------------------------|------------|------|-------|-------|--------|-----|-----|
| | | | | | 1 | 4+5 | 8+9 |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|------------------------------|------------|------|-------|-------|--------|----|----|
| | | | | | 10+11 | 12 | 13 |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|------------------------------|------------|------|-------|-------|----------|----|----|
| | | | | | 14+15+16 | 17 | 18 |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.1 | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | 0.1 | 0.005 | ND | ND | ND |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.1 | 0.005 | ND | ND | ND |

Remark:

MDL = method detection limit
 ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

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TEST RESULT

TPCH - Toxics in Packaging Clearinghouse (formerly CONEG)

Test Request: Total Lead, Cadmium, Mercury and Chromium content as specified in TPCH legislation.
 Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996.
 Acid digestion/ microwave digestion method was used, analysis of total Lead, Cadmium, Mercury and Chromium was performed by ICP-OES. Chromium VI determination was performed by UV-Vis Spectrophotometer.

| Tested Item(s) | Unit | Limit | MDL | Result | | | | | | |
|---------------------------|-------|-------|-----|--------|----|----|----|----|----|----|
| | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Total Lead (Pb) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Cadmium (Cd) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Chromium VI (Cr VI) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Mercury (Hg) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total (Pb+Cd+Hg+Cr VI) | mg/kg | 100 | - | ND | ND | ND | ND | ND | ND | ND |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

"-" = Not Regulated

As per client's request, only the appointed materials have been tested.

The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

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TEST RESULT

Mechanical and Physical Properties

Test Request: As specified in European Standard on Safety of Toys EN71 Part 1:2014+A1:2018

| Section | Description | Result |
|-----------|--|--------|
| 4 | General requirements | |
| 4.1 | Material cleanliness (by visual assessment) | P |
| 4.2 | Assembly | N/A |
| 4.3 | Flexible plastic sheeting | N/A |
| 4.4 | Toy Bags | N/A |
| 4.5 | Glass | N/A |
| 4.6 | Expanding Materials | N/A |
| 4.7 | Edges | P |
| 4.8 | Points and Metallic Wires | P |
| 4.9 | Protruding parts | N/A |
| 4.10 | Parts moving against each other | |
| 4.10.1 | Folding and sliding mechanisms | N/A |
| 4.10.2 | Driving mechanisms | N/A |
| 4.10.3 | Hinges | N/A |
| 4.10.4 | Springs | N/A |
| 4.11 | Mouth-actuated toys and other toys intended to be put in the mouth | N/A |
| 4.12 | Balloons | N/A |
| 4.13 | Cords of toy kites and other flying toys | N/A |
| 4.14 | Enclosures | |
| 4.14.1 | Toys which a child can enter | N/A |
| 4.14.2 | Masks and helmets | N/A |
| 4.15 | Toys intended to bear the mass of a child | |
| 4.15.1 | Toys propelled by the child or by other means | N/A |
| 4.15.2 | Toy bicycles | N/A |
| 4.15.3 | Rocking horses and similar toys | N/A |
| 4.15.4 | Toys not propelled by a child | N/A |
| 4.15.5 | Toys scooters | N/A |
| 4.16 | Heavy immobile toys | N/A |
| 4.17 | Projectiles | N/A |
| 4.17.1 | General | N/A |
| 4.17.2 | All projectiles | N/A |
| 4.17.3 | Projectile toy with stored energy | N/A |
| 4.17.4 | Certain projectile toys without stored energy | N/A |
| 4.18 | Aquatic toys and inflatable toys | N/A |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A |
| 4.20 | Acoustics | |
| 4.20.2.1 | General | N/A |
| 4.20.2.2 | Close-to-the-ear toys | N/A |
| 4.20.2.3 | Table-top or floor toys | N/A |
| 4.20.2.4 | Hand-held toys | N/A |
| 4.20.2.5 | Toys using headphones or earphones | N/A |
| 4.20.2.6 | Rattles | N/A |
| 4.20.2.7 | Squeeze toys | N/A |
| 4.20.2.8 | Pull-along or push toys | N/A |
| 4.20.2.9 | Percussion toys | N/A |
| 4.20.2.10 | Wind toys | N/A |
| 4.20.2.11 | Cap-firing toys | N/A |



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TEST RESULT

| Section | Description | Result |
|-----------|---|--------|
| 4.20.2.12 | Voice toys | N/A |
| 4.21 | Toys containing a non-electrical heat source | N/A |
| 4.22 | Small balls | N/A |
| 4.23 | Magnets | N/A |
| 4.24 | Yo-yo balls | N/A |
| 4.25 | Toys attached to food | N/A |
| 4.26 | Toy disguise costumes | N/A |
| 4.27 | Flying toys | N/A |
| 4.27.1 | General | N/A |
| 4.27.2 | Rotors and propellers on flying toys | N/A |
| 4.27.3 | Rotors and propellers on remote controlled flying toys | N/A |
| 5 | Toys intended for children under 36 months | |
| 5.1 | General requirements | N/A |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | N/A |
| 5.3 | Plastic sheeting | N/A |
| 5.4 | Cords, chains and electrical cables in toys | N/A |
| 5.5 | Liquid-filled toys | N/A |
| 5.6 | Speed limitation of electrically-driven ride-on toys | N/A |
| 5.7 | Glass and porcelain | N/A |
| 5.8 | Shape and size of certain toys | N/A |
| 5.9 | Toys comprising monofilament fibres | N/A |
| 5.10 | Small balls | N/A |
| 5.11 | Play figures | N/A |
| 5.12 | Hemispheric-shaped toys | N/A |
| 5.13 | Suction cups | N/A |
| 5.14 | Straps intended to be worn fully or partially around the neck | N/A |
| 5.15 | Sledges with cords for pulling | N/A |
| 6 | Packaging | N/A |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | P |
| 7.2 | Toys not intended for children under 36 months | P |
| 7.3 | Latex Balloons | N/A |
| 7.4 | Aquatic toys | N/A |
| 7.5 | Functional Toys | N/A |
| 7.6 | Hazardous sharp functional edges and points | N/A |
| 7.7 | Projectiles toys | N/A |
| 7.8 | Imitation protective masks and helmets | N/A |
| 7.9 | Toy kites | N/A |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | N/A |
| 7.11 | Toys intended to be attached to or strung across a cradle, cot, or perambulator | N/A |
| 7.11 | Toys intended to be strung across a cradle, cot, or perambulator | N/A |
| 7.12 | Liquid-filled teethers | N/A |
| 7.13 | Percussion caps specifically designed for use in toys | N/A |
| 7.14 | Acoustics | N/A |
| 7.15 | Toys bicycles | N/A |
| 7.16 | Toys intended to bear the mass of a child | N/A |
| 7.17 | Toys comprising monofilament fibres | N/A |
| 7.18 | Toy scooters | N/A |
| 7.19 | Rocking horses and similar toys | N/A |
| 7.20 | Magnetic/electrical experimental sets | N/A |
| 7.21 | Toy with electrical cables exceeding 300mm in length | N/A |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months | N/A |



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TEST RESULT

| Section | Description | Result |
|---------|---|--------|
| 7.23 | Toys intended to be attached to a cradle, cot or perambulator | N/A |
| 7.24 | Sledges with cords for pulling | N/A |
| 7.25 | Flying toys | N/A |
| 7.25.1 | Flying toys | N/A |
| 7.25.2 | Remote controlled flying toys | N/A |
| 7.26 | Improvised projectiles | N/A |

Remark:

P – Pass

NA – Not Applicable

Labeling Requirement

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC – Safety of toys

| Labeling Content | Observation Result | Location | Conclusion |
|-------------------------------|---|-----------|------------|
| Washing/Cleaning Instruction | Not Applicable | - | - |
| CE Mark | Present, Correct form, CE marking (height = 6 mm) | Packaging | Pass |
| Importer's Name & Address | Present | Packaging | Pass |
| Manufacturer's Name & Address | Present | Packaging | |
| Product ID | Present | Packaging | Pass |

Flammability of Toys

Test Request: As specified in European Standard on Safety of Toys EN71 Part 2:2011+A1:2014

| Section | Description | Result |
|---------|---|--------|
| 4 | Requirements | |
| 4.1 | General Requirements | P |
| 4.2 | Toys to be worn on the head | N/A |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play | N/A |
| 4.4 | Toys intended to be entered by a child. | N/A |
| 4.5 | Soft-filled toys (animals and dolls, etc) (Sample was not tested if its maximum dimension is 150mm or less.) | N/A |

Remark:

P – Pass

NA – Not Applicable

TO BE CONTINUED



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TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in Part III of Annex II to Toy Safety Directive 2009/48/EC and its amendment Directive (EU) 2018/725.

Test Method: Extractable Organic Tin – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by GC-MS.
 General elements – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by ICP-MS.
 Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by HPLC-ICP-MS / IC-UV/VIS.

| Test Item(s): | Unit | Result | | | | | | | |
|-------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 4 | 6 | 8 | 9 | 10 | 12 |
| Category Type | | III | III | III | III | III | III | III | III |
| Extractable Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Antimony (Sb) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Arsenic (As) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Barium (Ba) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Cadmium (Cd) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Mercury (Hg) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Selenium (Se) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Boron (B) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Cobalt (Co) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Manganese (Mn) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Strontium (Sr) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Zinc (Zn) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Copper (Cu) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Aluminum (Al) | mg/kg | ND | 77 | 140 | 85 | 74 | 71 | 75 | ND |
| Extractable Nickel (Ni) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Tin (Sn) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Organic Tin#1 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Chromium#2 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Chromium (III) (Cr III) | mg/kg | - | - | - | - | - | - | - | - |
| Extractable Chromium (VI) (Cr VI) | mg/kg | - | - | - | - | - | - | - | - |

Remarks:

mg/kg = milligram per kilogram
 MDL = Method Detection Limit
 ND = Not Detected, less than MDL
 As per client's request, only the appointed materials have been tested.

Note:

- #1 - The migration of organic tin is expressed as tributyltin.
 #2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

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TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in Part III of Annex II to Toy Safety Directive 2009/48/EC and its amendment Directive (EU) 2018/725.

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by GC-MS.
 General elements – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by ICP-MS.
 Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by HPLC-ICP-MS / IC-UV/VIS.

| Test Item(s): | Unit | Result | | | | | | | |
|-------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|----------------------|
| | | 13 | 14 | 15 | 16 | 17* | 18 | 19 | 24 |
| Category Type | | III | III | III | III | III | III | III | III |
| Extractable Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Antimony (Sb) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Arsenic (As) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Barium (Ba) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Cadmium (Cd) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Mercury (Hg) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Selenium (Se) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Boron (B) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Cobalt (Co) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Manganese (Mn) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Strontium (Sr) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Zinc (Zn) | mg/kg | ND | ND | ND | ND | ND | ND | 227 | 1.29x10 ³ |
| Extractable Copper (Cu) | mg/kg | ND | ND | ND | ND | ND | ND | ND | 377 |
| Extractable Aluminum (Al) | mg/kg | 144 | ND | ND | ND | ND | 109 | ND | ND |
| Extractable Nickel (Ni) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Tin (Sn) | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Organic Tin#1 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| Extractable Chromium#2 | mg/kg | - | ND | ND | ND | ND | - | ND | ND |
| Extractable Chromium (III) (Cr III) | mg/kg | ND | - | - | - | - | ND | - | - |
| Extractable Chromium (VI) (Cr VI) | mg/kg | ND | - | - | - | - | ND | - | - |

Remarks:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

As per client's request, only the appointed materials have been tested.

* The test result was calculated as if 100 mg of test portion had been used and the sample weight of test portion is less than 100 mg.

Note:

#1 - The migration of organic tin is expressed as tributyltin.

#2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

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TEST RESULT

Limits –MDL per category type:

| Test Item(s): | Unit | Limit | MDL | Limit | MDL | Limit | MDL |
|---------------------------------------|-------|-------|------|-------|-------|--------|------|
| Category Type | | I | | II | | III | |
| Extractable Lead (Pb) | mg/kg | 2 | 1 | 0.5 | 0.2 | 23 | 10 |
| Extractable Antimony (Sb) | mg/kg | 45 | 5 | 11.3 | 1 | 560 | 10 |
| Extractable Arsenic (As) | mg/kg | 3.8 | 0.2 | 0.9 | 0.1 | 47 | 5 |
| Extractable Barium (Ba) | mg/kg | 1500 | 50 | 375 | 10 | 18750 | 50 |
| Extractable Cadmium (Cd) | mg/kg | 1.3 | 0.1 | 0.3 | 0.05 | 17 | 1 |
| Extractable Mercury (Hg) | mg/kg | 7.5 | 0.5 | 1.9 | 0.2 | 94 | 10 |
| Extractable Selenium (Se) | mg/kg | 37.5 | 2 | 9.4 | 1 | 460 | 10 |
| Extractable Boron (B) | mg/kg | 1200 | 50 | 300 | 10 | 15000 | 50 |
| Extractable Cobalt (Co) | mg/kg | 10.5 | 1 | 2.6 | 0.2 | 130 | 10 |
| Extractable Manganese (Mn) | mg/kg | 1200 | 50 | 300 | 10 | 15000 | 50 |
| Extractable Strontium (Sr) | mg/kg | 4500 | 50 | 1125 | 50 | 56000 | 50 |
| Extractable Zinc (Zn) | mg/kg | 3750 | 50 | 938 | 50 | 46000 | 50 |
| Extractable Copper (Cu) | mg/kg | 622.5 | 10 | 156 | 10 | 7700 | 50 |
| Extractable Aluminum (Al) | mg/kg | 5625 | 50 | 1406 | 50 | 70000 | 50 |
| Extractable Nickel (Ni) | mg/kg | 75 | 5 | 18.8 | 2 | 930 | 10 |
| Extractable Tin (Sn) | mg/kg | 15000 | 50 | 3750 | 50 | 180000 | 50 |
| Extractable Organic Tin ^{#1} | mg/kg | 0.9 | 0.2 | 0.2 | 0.2 | 12 | 0.2 |
| Extractable Chromium ^{#2} | mg/kg | - | 0.02 | - | 0.005 | - | 0.02 |
| Extractable Chromium (III) (Cr III) | mg/kg | 37.5 | 2 | 9.4 | 1 | 460 | 10 |
| Extractable Chromium (VI) (Cr VI) | mg/kg | 0.02 | 0.02 | 0.005 | 0.005 | 0.053 | 0.02 |

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-“ = Not Regulated

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TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|-------------------|------|-------|--------|--------|--|--|--|
| | | | | 1 | | | |
| Total Cadmium(Cd) | % | 0.1 | 0.0005 | ND | | | |

| Tested Item(s) | Unit | Limit | MDL | Result | | | |
|-------------------|------|-------|--------|--------|-----|----|----|
| | | | | 2+3 | 6+7 | 12 | 13 |
| Total Cadmium(Cd) | % | 0.01 | 0.0005 | ND | ND | ND | ND |

| Tested Item(s) | Unit | Limit | MDL | Result | | |
|-------------------|------|-------|--------|----------|----|----|
| | | | | 14+15+16 | 17 | 18 |
| Total Cadmium(Cd) | % | 0.01 | 0.0005 | ND | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement.

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | | |
|---|----------|-------|-------|-----|--------|----|----|----|
| | | | | | 1 | 2 | 5 | 7 |
| For rubber or plastic of toys or child use articles, will direct contact with skin and mouth. | | | | | | | | |
| Benzo(a)anthracene | 56-55-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Chrysene | 218-01-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 205-99-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(j)fluoranthene | 205-82-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 207-08-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(a)pyrene | 50-32-8 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(e)pyrene | 192-97-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | | |
|---|----------|-------|-------|-----|--------|----|----|----|
| | | | | | 8 | 9 | 11 | 12 |
| For rubber or plastic of toys or child use articles, will direct contact with skin and mouth. | | | | | | | | |
| Benzo(a)anthracene | 56-55-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Chrysene | 218-01-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 205-99-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(j)fluoranthene | 205-82-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 207-08-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(a)pyrene | 50-32-8 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(e)pyrene | 192-97-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | | |
|---|----------|-------|-------|-----|--------|-------|-------|----|
| | | | | | 13 | 14+15 | 16+17 | 18 |
| For rubber or plastic of toys or child use articles, will direct contact with skin and mouth. | | | | | | | | |
| Benzo(a)anthracene | 56-55-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Chrysene | 218-01-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 205-99-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(j)fluoranthene | 205-82-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 207-08-9 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(a)pyrene | 50-32-8 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |
| Benzo(e)pyrene | 192-97-2 | mg/kg | 0.5 | 0.2 | ND | ND | ND | ND |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|-------------------------------|------------|------|-------|-------|--------|-----|-----|
| | | | | | 1 | 4+5 | 8+9 |
| Dibutylphthalate (DBP) | 84-74-2 | % | - | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | - | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | - | 0.005 | ND | ND | ND |
| Diisobutylphthalate (DIBP) | 84-69-5 | % | - | 0.005 | ND | ND | ND |
| Sum (DBP + BBP + DEHP + DIBP) | - | % | 0.1 | - | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | - | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | - | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | - | 0.005 | ND | ND | ND |
| Sum (DNOP + DINP + DIDP) | - | % | 0.1 | - | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|-------------------------------|------------|------|-------|-------|--------|----|----|
| | | | | | 10+11 | 12 | 13 |
| Dibutylphthalate (DBP) | 84-74-2 | % | - | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | - | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | - | 0.005 | ND | ND | ND |
| Diisobutylphthalate (DIBP) | 84-69-5 | % | - | 0.005 | ND | ND | ND |
| Sum (DBP + BBP + DEHP + DIBP) | - | % | 0.1 | - | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | - | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | - | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | - | 0.005 | ND | ND | ND |
| Sum (DNOP + DINP + DIDP) | - | % | 0.1 | - | ND | ND | ND |

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | | |
|-------------------------------|------------|------|-------|-------|----------|----|----|
| | | | | | 14+15+16 | 17 | 18 |
| Dibutylphthalate (DBP) | 84-74-2 | % | - | 0.005 | ND | ND | ND |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | - | 0.005 | ND | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7 | % | - | 0.005 | ND | ND | ND |
| Diisobutylphthalate (DIBP) | 84-69-5 | % | - | 0.005 | ND | ND | ND |
| Sum (DBP + BBP + DEHP + DIBP) | - | % | 0.1 | - | ND | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | - | 0.005 | ND | ND | ND |
| Diisononylphthalate (DINP) | 28553-12-0 | % | - | 0.005 | ND | ND | ND |
| Diisodecylphthalate (DIDP) | 26761-40-0 | % | - | 0.005 | ND | ND | ND |
| Sum (DNOP + DINP + DIDP) | - | % | 0.1 | - | ND | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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TEST RESULT

Packaging and Packaging Waste

Test Request: Total Lead, Cadmium, Mercury and Chromium VI content as specified in Directive 94/62/EC and its amendment Directive (EU) 2015/720.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
 Acid digestion/ microwave digestion method was used, analysis of total Lead, Cadmium, Mercury and Chromium was performed by ICP-OES. Chromium VI determination was performed by UV-Vis Spectrophotometer.

| Tested Item(s) | Unit | Limit | MDL | Result | | | | | | |
|---------------------------|-------|-------|-----|--------|----|----|----|----|----|----|
| | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Total Lead (Pb) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Cadmium (Cd) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Chromium VI (Cr VI) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total Mercury (Hg) | mg/kg | - | 5 | ND | ND | ND | ND | ND | ND | ND |
| Total (Pb+Cd+Hg+Cr VI) | mg/kg | 100 | - | ND | ND | ND | ND | ND | ND | ND |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

"-" = Not Regulated

As per client's request, only the appointed materials have been tested.

END OF THE REPORT