

Test Report

No.: 68.431.23.2368.01

Date: 2023-06-02



Greater China

Applicant: Spector & Co
Sample Description: Rubberized plastic push action ballpoint pen
Product Type / End use: Writing instrument
Item No.: G1282
Style No.: ALIX
Supplier: USS061
Country of Origin: China
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2023-05-23
Date of Testing: From 2023-05-23 to 2023-06-02
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

| Test Item | Conclusion |
|---|--------------|
| 1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials | Pass* |
| 2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials | Pass* |
| 3. US California Proposition 65 - Total lead Content Test - Paint and Similar Surface-Coating Materials | Pass* |
| 4. US California Proposition 65 - Total Lead Content Test - Substrate Materials | Pass* |
| 5. Phthalates Content (11P) | Pass* |
| 6. Tungsten Content Test | Report As Is |
| 7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury | Pass |
| 8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead | Pass |
| 9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test | Pass |
| 10. Total Nickel Content Test | Report As Is |
| 11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P) | Pass |
| 12. US California Proposition 65 - Phthalates Content (6P) | Pass* |

Remarks: 1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable

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Lab 1 - Chemical testing and part of electrical testing Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Testing Center

Prepared by:

Authorized by:



Gianna Gao
Project Manager

Eva Liang
Project Manager

Note:

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For further details, please see "Testing and certification regulation", chapter A-3.4
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- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) "*" denotes the conclusion was drawn according to the client's specification.

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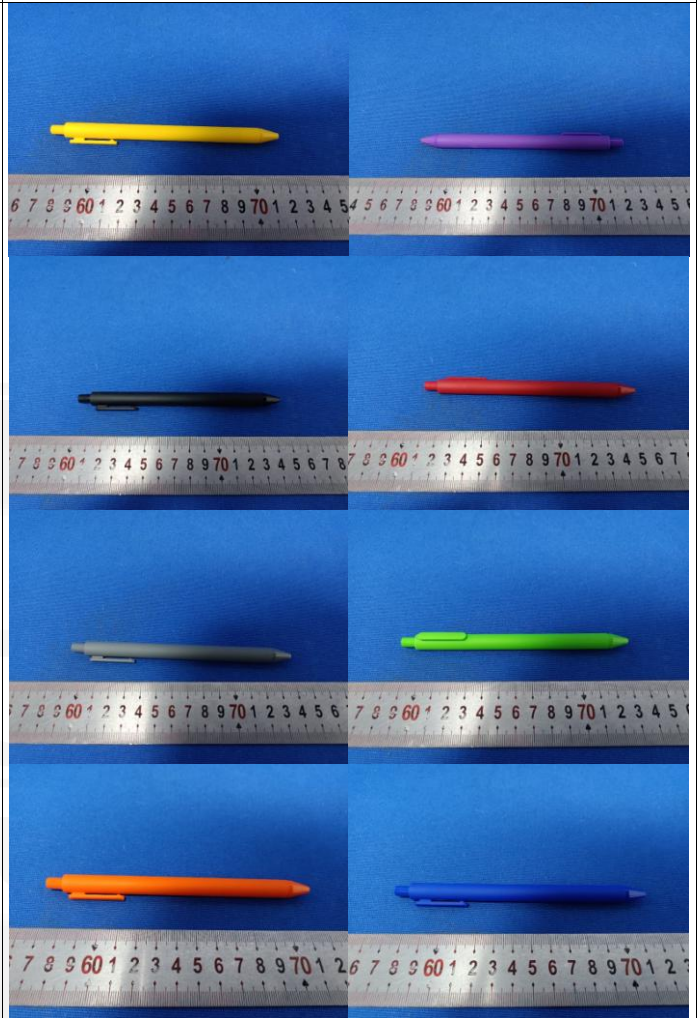
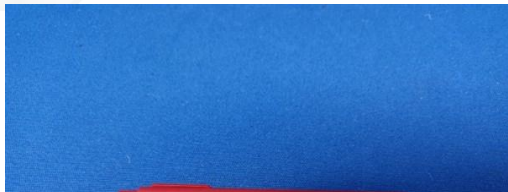

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Description of Tested Subject:

| Sample | Description | Photo |
|--------|--|--|
| A | Whole product |  |
| 001 | Matt-red plastic (Body) |  |
| 002 | Bright red plastic (End button & head) |  |

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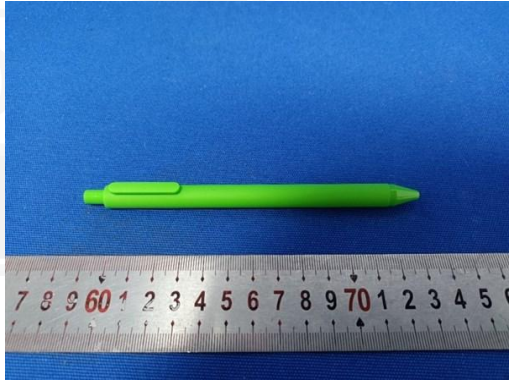
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| Sample | Description | Photo |
|--------|--|--|
| 003 | Matt-black plastic (Body) |  |
| 004 | Bright black plastic (End button & head) | |
| 005 | Grey plastic (Body) |  |
| 006 | Bright grey plastic (End button & head) | |
| 007 | Green plastic (Body) |  |
| 008 | Bright green plastic (End button & head) | |
| 009 | Yellow plastic (Body) | |

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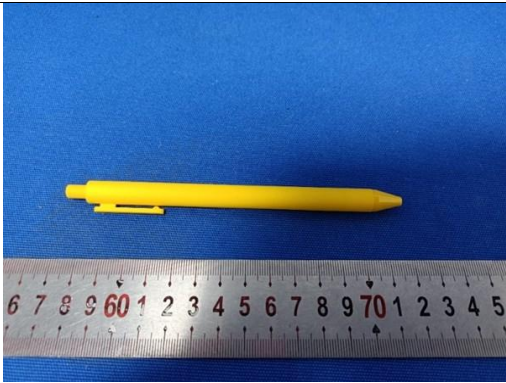
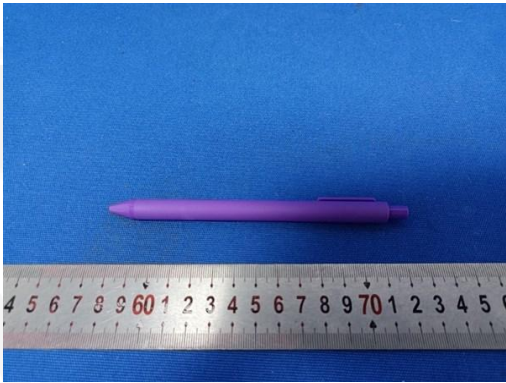




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| Sample | Description | Photo |
|--------|---|--|
| 010 | Bright yellow plastic (End button/ clip & head) |  |
| 011 | Purple plastic (Body) |  |
| 012 | Bright purple plastic (End button/ clip & head) |  |
| 013 | Orange plastic (Body) |  |
| 014 | Bright orange plastic (End button/ clip & head) |  |
| 015 | Blue plastic (Body) |  |

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| Sample | Description | Photo |
|--------|---|---|
| 016 | Bright blue plastic (End button/ clip & head) |  |
| 017 | Blue ink (Core) |  |
| 018 | Steel grey plastic (Core) | |
| 019 | Silver color metal (Nib) | |
| 020 | Silver color metal (Ball of nib) | |
| 021 | Silver color metal (Spring) | |

| T. No | Sample | Description |
|-------|--------|---|
| T1 | 001 | Matt-red plastic (Body) |
| T2 | 002 | Bright red plastic (End button & head) |
| T3 | 003 | Matt-black plastic (Body) |
| T4 | 004 | Bright black plastic (End button & head) |
| T5 | 005 | Grey plastic (Body) |
| T6 | 006 | Bright grey plastic (End button & head) |
| T7 | 007 | Green plastic (Body) |
| T8 | 008 | Bright green plastic (End button & head) |
| T9 | 009 | Yellow plastic (Body) |
| T10 | 010 | Bright yellow plastic (End button/ clip & head) |
| T11 | 011 | Purple plastic (Body) |
| T12 | 012 | Bright purple plastic (End button/ clip & head) |
| T13 | 013 | Orange plastic (Body) |
| T14 | 014 | Bright orange plastic (End button/ clip & head) |
| T15 | 015 | Blue plastic (Body) |
| T16 | 016 | Bright blue plastic (End button/ clip & head) |
| T17 | 017 | Blue ink (Core) |
| T18 | 018 | Steel grey plastic (Core) |
| T19 | 019 | Silver color metal (Nib) |

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| T. No | Sample | Description |
|-------|--------|----------------------------------|
| T20 | 020 | Silver color metal (Ball of nib) |
| T21 | 021 | Silver color metal (Spring) |



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Test Result(s):

1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|--------|-------|-----|----------------|-----------|------------|
| 017 | mg/kg | 10 | 75 | N.D. | Pass |

2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|-------------|-------|-----|----------------|-----------|------------|
| 001+002+003 | mg/kg | 10 | 75 | N.D. | Pass |
| 004+005+006 | mg/kg | 10 | 75 | N.D. | Pass |
| 007+008+009 | mg/kg | 10 | 75 | N.D. | Pass |
| 010+011+012 | mg/kg | 10 | 75 | N.D. | Pass |
| 013+014+015 | mg/kg | 10 | 75 | N.D. | Pass |
| 016+018 | mg/kg | 10 | 75 | N.D. | Pass |
| 019 | mg/kg | 10 | 75 | N.D. | Pass |
| 020 | mg/kg | 10 | 75 | N.D. | Pass |
| 021 | mg/kg | 10 | 75 | N.D. | Pass |

3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|--------|-------|-----|----------------|-----------|------------|
| 017 | mg/kg | 10 | 90 | N.D. | Pass |

4. US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|-------------|-------|-----|----------------|-----------|------------|
| 001+002+003 | mg/kg | 10 | 100 | N.D. | Pass |
| 004+005+006 | mg/kg | 10 | 100 | N.D. | Pass |
| 007+008+009 | mg/kg | 10 | 100 | N.D. | Pass |
| 010+011+012 | mg/kg | 10 | 100 | N.D. | Pass |
| 013+014+015 | mg/kg | 10 | 100 | N.D. | Pass |
| 016+018 | mg/kg | 10 | 100 | N.D. | Pass |
| 019 | mg/kg | 10 | 100 | 46.7 | Pass |
| 020 | mg/kg | 10 | 100 | N.D. | Pass |

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| | | | | | |
|-----|-------|----|-----|------|------|
| 021 | mg/kg | 10 | 100 | N.D. | Pass |
|-----|-------|----|-----|------|------|

5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
| | | | | | 001+002+003 | 004+005+006 |
| Diethyl phthalate(DEP) | 84-66-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-octyl phthalate, (DNOP) | 117-84-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|----------|------|-------|----------------|-------------|-------------|
| | | | | | 007+008+009 | 010+011+012 |
| Diethyl phthalate(DEP) | 84-66-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
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| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
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| | | | | | | |
|-------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
| | | | | | 013+014+015 | 016+018 |
| Diethyl phthalate(DEP) | 84-66-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
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| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) |
|--------------------------------------|----------|------|-------|----------------|-----------|
| | | | | | 017 |
| Diethyl phthalate(DEP) | 84-66-2 | % | 0.005 | 0.1 | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. |

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| | | | | | |
|-------------------------------|-------------------------|---|-------|-----|-------------|
| Di-n-octyl phthalate, (DNOP) | 117-84-0 | % | 0.005 | 0.1 | N.D. |
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| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. |
| Conclusion | | | | | Pass |

6. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

| Test items | Unit | MDL | Maximum Permissible Limit | Result(s) |
|-------------------|-------|------|---------------------------|---------------------|
| | | | | 021 |
| Tungsten(W) | mg/kg | 10.0 | - | N.D. |
| Conclusion | | | | Report As Is |

7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Limit | Result(s) | Conclusion |
|--------|-------|-----|-------|-----------|------------|
| 017 | mg/kg | 10 | 10.0 | N.D. | Pass |

8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Limit | Result(s) | Conclusion |
|--------|-------|-----|-------|-----------|------------|
| 017 | mg/kg | 10 | 90 | N.D. | Pass |

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9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Limit | Result(s) | Conclusion |
|-------------|-------|-----|-------|-----------|------------|
| 001+002+003 | mg/kg | 10 | 90 | N.D. | Pass |
| 004+005+006 | mg/kg | 10 | 90 | N.D. | Pass |
| 007+008+009 | mg/kg | 10 | 90 | N.D. | Pass |
| 010+011+012 | mg/kg | 10 | 90 | N.D. | Pass |
| 013+014+015 | mg/kg | 10 | 90 | N.D. | Pass |
| 016+018 | mg/kg | 10 | 90 | N.D. | Pass |
| 017 | mg/kg | 10 | 90 | N.D. | Pass |
| 019 | mg/kg | 10 | 90 | 46.7 | Pass |
| 020 | mg/kg | 10 | 90 | N.D. | Pass |
| 021 | mg/kg | 10 | 90 | N.D. | Pass |

10. Total Nickel Content Test

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|--------|-------|-----|----------------|-----------|--------------|
| 019 | mg/kg | 5 | - | 34.807 | Report As Is |
| 020 | mg/kg | 5 | - | 67842.742 | Report As Is |
| 021 | mg/kg | 5 | - | 71.729 | Report As Is |

11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
| | | | | | 001+002+003 | 004+005+006 |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |

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| | | |
|-------------------|-------------|-------------|
| Conclusion | Pass | Pass |
|-------------------|-------------|-------------|

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
| | | | | | 007+008+009 | 010+011+012 |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
| | | | | | 013+014+015 | 016+018 |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) |
|-------------------------------|---------|------|-------|-------|-----------|
| | | | | | 017 |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. |
| Diisobutylphthalate, (DIBP) | 84-69-5 | % | 0.005 | 0.1 | N.D. |

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| | | | | | |
|--------------------------------------|-------------------------|---|-------|-----|-------------|
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | % | 0.005 | 0.1 | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. |
| Di-n-pentyl phthalates (DnPP) | 131-18-0 | % | 0.005 | 0.1 | N.D. |
| Conclusion | | | | | Pass |

12. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|-------------------------|------|-------|----------------|-------------|-------------|
| | | | | | 001+002+003 | 004+005+006 |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DNHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|-------------------------|------|-------|----------------|-------------|-------------|
| | | | | | 007+008+009 | 010+011+012 |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DNHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, | 28553-12-0 , | % | 0.005 | 0.1 | N.D. | N.D. |

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| | | | | | | |
|-------------------|------------|--|--|--|-------------|-------------|
| (DINP) | 68515-48-0 | | | | | |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) | |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
| | | | | | 013+014+015 | 016+018 |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-n-hexyl phthalate (DNHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. | N.D. |
| Conclusion | | | | | Pass | Pass |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|
| | | | | | 017 |
| Dibutyl phthalate, (DBP) | 84-74-2 | % | 0.005 | 0.1 | N.D. |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | % | 0.005 | 0.1 | N.D. |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | % | 0.005 | 0.1 | N.D. |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 , 68515-49-1 | % | 0.005 | 0.1 | N.D. |
| Di-n-hexyl phthalate (DNHP) | 84-75-3 | % | 0.005 | 0.1 | N.D. |
| Di-isononyl phthalate, (DINP) | 28553-12-0 , 68515-48-0 | % | 0.005 | 0.1 | N.D. |
| Conclusion | | | | | Pass |

-End of Test Report-

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