



**Test Report** No. F690101/LF-CTSAYHA15-09922R1 Issued Date : 2015. 11. 20 Page 1 of 11

**CREAMHAUS FRIENDS INC.**  
2907 Nambusunhwan-ro  
Gangnam-gu, Seoul  
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

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|                                   |   |
|-----------------------------------|---|
| <b>SGS File No.</b>               | : AYHA15-09922R1  |
| <b>Sample Description</b>         | : CREAMHAUS PLAY MAT<br>(SNOW PALETTE/ ICE CASTLE/ RETRO PALETTE & CUBE)  |
| <b>Detail of Sample</b>           | : Creamhaus play mat_Snow palette with information manual<br>Creamhaus play mat_Ice castle with information manual<br>Creamhaus play mat_Bumper with white columns and information manual |
| <b>Style no./Item no.</b>         | : -   |
| <b>Order No.</b>                  | : -   |
| <b>Manufacturer</b>               | : -   |
| <b>Country of Origin</b>          | : S.KOREA   |
| <b>Country of Destination</b>     | : -   |
| <b>Labeled Age Grading</b>        | : None  |
| <b>Requested Test Age Grading</b> | : None  |
| <b>SGS Assessed Age Grading</b>   | : All ages  |
| <b>Received Date</b>              | : 2015. 10. 23  |
| <b>Resubmitted Sample Date</b>    | : 2015. 11. 02 / 2015. 11. 13   |
| <b>Test Period</b>                | : 2015. 10. 23 to 2015. 11. 20  |
| <b>Test Method</b>                | : For further details, please refer to following page (s)   |
| <b>Test Results</b>               | : For further details, please refer to following page (s)   |
| <b>Supersedes /Referral</b>       | : This test report supersedes previous report number, "F690101/LF-CTSAYHA15-09922" issued by SGS Korea.   |
| <b>Result Summary</b>             | :   |

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# Test Report

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| Test Requested   | Conclusion  |
|--|---|
| <b>US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):</b><br>- ASTM F963-11 : Standard Consumer Safety Specification on Toy Safety<br>- Flammability of toys (16 C.F.R. 1500.44)<br>- Small part (16 C.F.R. Part 1501)<br>- Sharp points and edges (16 C.F.R. 1500.48 and 49)<br>- CPSIA section 108 - Phthalates | -<br><b>PASS</b><br><b>PASS</b><br><b>PASS</b><br><b>PASS</b><br><b>See Results</b> |

SGS Korea Co., Ltd.



Daesung Lee / Technical Manager

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**Result Summary**

Detail of Sample : Snow palette

**ASTM F963-11**

As specified in ASTM F963-11 standard consumer safety specification on toy safety.

Clauses Relevant to Sample

| Clause | Description   | Result            |
|--------|---|-------------------|
| 4      | Safety Requirements   | -                 |
| 4.1    | Material Quality **   | Pass              |
| 4.2    | Flammability Test (16 C.F.R. 1500.44)   | Pass (See Note 1) |
| 4.3    | Toxicology  | -                 |
| 4.3.5  | Heavy Elements  | Pass (See Note 2) |
|        | 4.3.5.1- Heavy Elements in Paint/Similar Surface Coating Materials  | Pass (See Note 3) |
|        | 4.3.5.2- Heavy Metal in Substrate Materials   |                   |
| 4.6    | Small Objects   | -                 |
| 4.6.1  | Small Objects (16 C.F.R. 1501)  | Pass              |
| 4.7    | Accessible Edges (16 C.F.R. 1500.49)  | Pass              |
| 4.9    | Accessible Points (16 C.F.R. 1500.48)   | Pass              |
| 4.12   | Plastic Film  | Pass              |
| 5      | Safety Labeling Requirements  | -                 |
| 5.2    | Age Grading Labeling  | Pass              |
| 7      | Producer's Markings   | -                 |
| 7.1    | Producer's Markings<br>(*Remark: The toy should be marked with name and address of the producer or the distributor) | *Remark           |
| 8      | Test Methods  | -                 |
| 8.5    | Normal Use Testing  | Pass              |
| 8.7    | Impact Test   | Pass              |
| 8.8    | Torque Test   | Pass              |
| 8.9    | Tension Test  | Pass              |
| 8.10   | Compression Test  | Pass              |

N/A = Not Applicable

\*\* Visual Examination

Note \*1:

Flammability Test (Clause 4.2)

- Flammability Test on Solid

| Sample | Burning Rate (inch/sec) |
|--------|-------------------------|
| Mat    | 0.1*                    |

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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Detail of Sample : Ice castle

**ASTM F963-11**

As specified in ASTM F963-11 standard consumer safety specification on toy safety.

Clauses Relevant to Sample

| Clause | Description   | Result            |
|--------|---|-------------------|
| 4      | Safety Requirements   | -                 |
| 4.1    | Material Quality **   | Pass              |
| 4.2    | Flammability Test (16 C.F.R. 1500.44)   | Pass (See Note 1) |
| 4.3    | Toxicology  | -                 |
| 4.3.5  | Heavy Elements  | Pass (See Note 2) |
|        | 4.3.5.1- Heavy Elements in Paint/Similar Surface Coating Materials  | Pass (See Note 3) |
|        | 4.3.5.2- Heavy Metal in Substrate Materials   |                   |
| 4.6    | Small Objects   | -                 |
| 4.6.1  | Small Objects (16 C.F.R. 1501)  | Pass              |
| 4.7    | Accessible Edges (16 C.F.R. 1500.49)  | Pass              |
| 4.9    | Accessible Points (16 C.F.R. 1500.48)   | Pass              |
| 4.12   | Plastic Film  | Pass              |
| 5      | Safety Labeling Requirements  | -                 |
| 5.2    | Age Grading Labeling  | Pass              |
| 7      | Producer's Markings   | -                 |
| 7.1    | Producer's Markings<br>(*Remark: The toy should be marked with name and address of the producer or the distributor) | *Remark           |
| 8      | Test Methods  | -                 |
| 8.5    | Normal Use Testing  | Pass              |
| 8.7    | Impact Test   | Pass              |
| 8.8    | Torque Test   | Pass              |
| 8.9    | Tension Test  | Pass              |
| 8.10   | Compression Test  | Pass              |

N/A = Not Applicable

\*\* Visual Examination

Note \*1:

Flammability Test (Clause 4.2)

- Flammability Test on Solid

| Sample | Burning Rate (inch/sec) |
|--------|-------------------------|
| Mat    | 0.1*                    |

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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**ASTM F963-11**

As specified in ASTM F963-11 standard consumer safety specification on toy safety.

Clauses Relevant to Sample

| Clause | Description   | Result            |
|--------|---|-------------------|
| 4      | Safety Requirements   | -                 |
| 4.1    | Material Quality **   | Pass              |
| 4.2    | Flammability Test (16 C.F.R. 1500.44)   | Pass (See Note 1) |
| 4.3    | Toxicology  | -                 |
| 4.3.5  | Heavy Elements  | Pass (See Note 2) |
|        | 4.3.5.1- Heavy Elements in Paint/Similar Surface Coating Materials  | Pass (See Note 3) |
|        | 4.3.5.2- Heavy Metal in Substrate Materials   |                   |
| 4.6    | Small Objects   | -                 |
| 4.6.1  | Small Objects (16 C.F.R. 1501)  | Pass              |
| 4.7    | Accessible Edges (16 C.F.R. 1500.49)  | Pass              |
| 4.9    | Accessible Points (16 C.F.R. 1500.48)   | Pass              |
| 4.12   | Plastic Film  | Pass              |
| 5      | Safety Labeling Requirements  | -                 |
| 5.2    | Age Grading Labeling  | Pass              |
| 7      | Producer's Markings   | -                 |
| 7.1    | Producer's Markings<br>(*Remark: The toy should be marked with name and address of the producer or the distributor) | *Remark           |
| 8      | Test Methods  | -                 |
| 8.5    | Normal Use Testing  | Pass              |
| 8.7    | Impact Test   | Pass              |
| 8.8    | Torque Test   | Pass              |
| 8.9    | Tension Test  | Pass              |
| 8.10   | Compression Test  | Pass              |

N/A = Not Applicable

\*\* Visual Examination

Note \*1:

Flammability Test (Clause 4.2)

- Flammability Test on Solid

| Sample       | Burning Rate (inch/sec) |
|--------------|-------------------------|
| Mat          | 0.1*                    |
| Velcro       | 0.1*                    |
| White column | DNI                     |

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

DNI = Did Not Ignite

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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Note \*2 :  
Heavy Elements (Clause 4.3.5)

ASTM F963-11, Clause 4.3.5.1- Heavy Elements in Paint/Similar Surface Coating Materials

Total Lead

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Heavy Metal in Paint and Other Similar Surface Coatings. Analysis was performed by ICP-OES.

| Test Items        | MDL | Result(s)   | Total Limit (ppm) |
|-------------------|-----|-------------|-------------------|
|                   |     | <u>1</u>    |                   |
| Lead (Pb)         | 20  | N.D.        | 90                |
| <b>Conclusion</b> | -   | <b>PASS</b> | -                 |

Description :

1. Blue coating on the ivory mat

Note. (1) N.D. = Not detected. (< MDL)  
(2) MDL = Method Detection Limit

Soluble Heavy Metals

Method : With reference to ASTM F963-11 Clause 8.3. Analysis was performed by ICP-OES.

| Element         | Results (Unit : mg/kg) |                       |                      |                     |                      |                       |                      |                       |
|-----------------|------------------------|-----------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|-----------------------|
|                 | Soluble Lead (Pb)      | Soluble Antimony (Sb) | Soluble Arsenic (As) | Soluble Barium (Ba) | Soluble Cadmium (Cd) | Soluble Chromium (Cr) | Soluble Mercury (Hg) | Soluble Selenium (Se) |
| <b>Limit</b>    | 90                     | 60                    | 25                   | 1000                | 75                   | 60                    | 60                   | 500                   |
| <b>MDL</b>      | 5                      | 5                     | 2.5                  | 10                  | 5                    | 2.5                   | 2.5                  | 10                    |
| <b><u>1</u></b> | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |

Mass of trace amount of sample no.1 = 13.8 mg

Description :

1. Blue coating on the ivory mat

Note. (1) N. D. = not detected (< MDL)  
(2) MDL = Method Detection Limit  
(3) Results shown are of the adjusted analytical result.

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Note \*3 :  
Heavy Elements (Clause 4.3.5)

ASTM F963-11, Clause 4.3.5.2- Heavy Elements in Toys Substrate Materials

Total Lead

Method (non-metallic materials): CPSC-CH-E1002-08.1 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product. Analysis was performed by ICP-OES.

| Test Items        | MDL | Result(s)   |             |             |             |             | Total Limit (ppm) |
|-------------------|-----|-------------|-------------|-------------|-------------|-------------|-------------------|
|                   |     | <u>1</u>    | <u>2</u>    | <u>3</u>    | <u>4</u>    | <u>5</u>    |                   |
| Lead (Pb)         | 20  | N.D.        | N.D.        | N.D.        | N.D.        | N.D.        | 100               |
| <b>Conclusion</b> | -   | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | -                 |

| Test Items        | MDL | Result(s)   |             |             |             |           | Total Limit (ppm) |
|-------------------|-----|-------------|-------------|-------------|-------------|-----------|-------------------|
|                   |     | <u>6</u>    | <u>7</u>    | <u>8</u>    | <u>9</u>    | <u>10</u> |                   |
| Lead (Pb)         | 20  | N.D.        | N.D.        | N.D.        | N.D.        | --        | 100               |
| <b>Conclusion</b> | -   | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | --        | -                 |

Method (metal materials): CPSC-CH-E1001-8.1 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry). Analysis was performed by ICP-OES.

| Test Items        | MDL | Result(s)   |             |             |             | Total Limit (ppm) |
|-------------------|-----|-------------|-------------|-------------|-------------|-------------------|
|                   |     | <u>11</u>   | <u>12</u>   | <u>13</u>   | <u>14</u>   |                   |
| Lead (Pb)         | 50  | N.D.        | N.D.        | N.D.        | N.D.        | 100               |
| <b>Conclusion</b> | -   | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | -                 |

Description :

- |   |   |
|---|---|
| 1. Sky blue mat                             | 2. Ivory mat                                    |
| 3. Pink mat                                 | 4. Grey mat                                     |
| 5. White inner foam                         | 6. Ivory plastic (zipper teeth)                 |
| 7. White rubber on the zipper slider puller | 8. White plastic bar                            |
| 9. Blue rubber on the zipper slider puller  | 10. Translucency zipper tape                    |
| 11. Zipper slider body                      | 12. Zipper slider puller (after removed rubber) |
| 13. Top stops (zipper)                      | 14. Bottom stops (zipper)                       |

Note. (1) N.D. = Not detected. (< MDL)  
(2) MDL = Method Detection Limit

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Note \*3 :  
Heavy Elements (Clause 4.3.5)

Soluble Heavy Metals

Method : With reference to ASTM F963-11 Clause 8.3. Analysis was performed by ICP-OES.

| Element      | Results (Unit : mg/kg) |                       |                      |                     |                      |                       |                      |                       |
|--------------|------------------------|-----------------------|----------------------|---------------------|----------------------|-----------------------|----------------------|-----------------------|
|              | Soluble Lead (Pb)      | Soluble Antimony (Sb) | Soluble Arsenic (As) | Soluble Barium (Ba) | Soluble Cadmium (Cd) | Soluble Chromium (Cr) | Soluble Mercury (Hg) | Soluble Selenium (Se) |
| <b>Limit</b> | 90                     | 60                    | 25                   | 1000                | 75                   | 60                    | 60                   | 500                   |
| <b>MDL</b>   | 5                      | 5                     | 2.5                  | 10                  | 5                    | 2.5                   | 2.5                  | 10                    |
| <b>1</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>2</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>3</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>4</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>5</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>6</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>7</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>8</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>9</b>     | N. D.                  | N. D.                 | N. D.                | N. D.               | N. D.                | N. D.                 | N. D.                | N. D.                 |
| <b>10</b>    | --                     | --                    | --                   | --                  | --                   | --                    | --                   | --                    |

Mass of trace amount of sample no.9 = 33.6 mg

Description :

- |   |                                 |
|---|---------------------------------|
| 1. Sky blue mat                             | 2. Ivory mat                    |
| 3. Pink mat                                 | 4. Grey mat                     |
| 5. White inner foam                         | 6. Ivory plastic (zipper teeth) |
| 7. White rubber on the zipper slider puller | 8. White plastic bar            |
| 9. Blue rubber on the zipper slider puller  | 10. Translucency zipper tape    |

Note. (1) N. D. = not detected (< MDL)  
(2) MDL = Method Detection Limit  
(3) Results shown are of the adjusted analytical result.

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**Result(s)**

**Phthalates**

Method: With reference to CPSC-CH-C1001-09.3. Analysis was performed by GC-MS.

Concentration of phthalates in components of toy that can be placed in the mouth or childcare article

| Test item                           | CAS No.                 | MDL     | Result(s)   |              |             | Permissible Limit |
|-------------------------------------|-------------------------|---------|-------------|--------------|-------------|-------------------|
|                                     |                         |         | 1-6         | 7            | 8           |                   |
| Dibutyl Phthalate (DBP)             | 84-74-2                 | 0.005 % | N. D.       | N. D.        | N. D.       | 0.1 %             |
| Benzylbutyl Phthalate (BBP)         | 85-68-7                 | 0.005 % | N. D.       | N. D.        | N. D.       | 0.1 %             |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7                | 0.005 % | N. D.       | <b>0.019</b> | N. D.       | 0.1 %             |
| Diisononyl Phthalate (DINP)         | 28553-12-0 / 68515-48-0 | 0.005 % | N. D.       | N. D.        | N. D.       | 0.1 %             |
| Di-n-octyl Phthalate (DNOP)         | 117-84-0                | 0.005 % | N. D.       | N. D.        | N. D.       | 0.1 %             |
| Diisodecyl Phthalate (DIDP)         | 26761-40-0 / 68515-49-1 | 0.005 % | N. D.       | N. D.        | N. D.       | 0.1 %             |
| <b>Conclusion</b>                   | -                       | -       | <b>PASS</b> | <b>PASS</b>  | <b>PASS</b> | -                 |

| Test item                           | CAS No.                 | MDL     | Result(s)   |    | Permissible Limit |
|-------------------------------------|-------------------------|---------|-------------|----|-------------------|
|                                     |                         |         | 9           | 10 |                   |
| Dibutyl Phthalate (DBP)             | 84-74-2                 | 0.005 % | N. D.       | -- | 0.1 %             |
| Benzylbutyl Phthalate (BBP)         | 85-68-7                 | 0.005 % | N. D.       | -- | 0.1 %             |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7                | 0.005 % | N. D.       | -- | 0.1 %             |
| Diisononyl Phthalate (DINP)         | 28553-12-0 / 68515-48-0 | 0.005 % | N. D.       | -- | 0.1 %             |
| Di-n-octyl Phthalate (DNOP)         | 117-84-0                | 0.005 % | N. D.       | -- | 0.1 %             |
| Diisodecyl Phthalate (DIDP)         | 26761-40-0 / 68515-49-1 | 0.005 % | N. D.       | -- | 0.1 %             |
| <b>Conclusion</b>                   | -                       | -       | <b>PASS</b> | -- | -                 |

**Description :**

- |   |                                 |
|---|---------------------------------|
| 1. Sky blue mat                             | 2. Ivory mat                    |
| 3. Pink mat                                 | 4. Grey mat                     |
| 5. White inner foam                         | 6. Ivory plastic (zipper teeth) |
| 7. White rubber on the zipper slider puller | 8. White plastic bar            |
| 9. Blue rubber on the zipper slider puller  | 10. Translucency zipper tape    |

- Note: (1) N. D. = not detected (< MDL)  
 (2) MDL = Method Detection Limit  
 (3) % = percentage by weight  
 (4) 1% = 10000ppm (mg/kg)

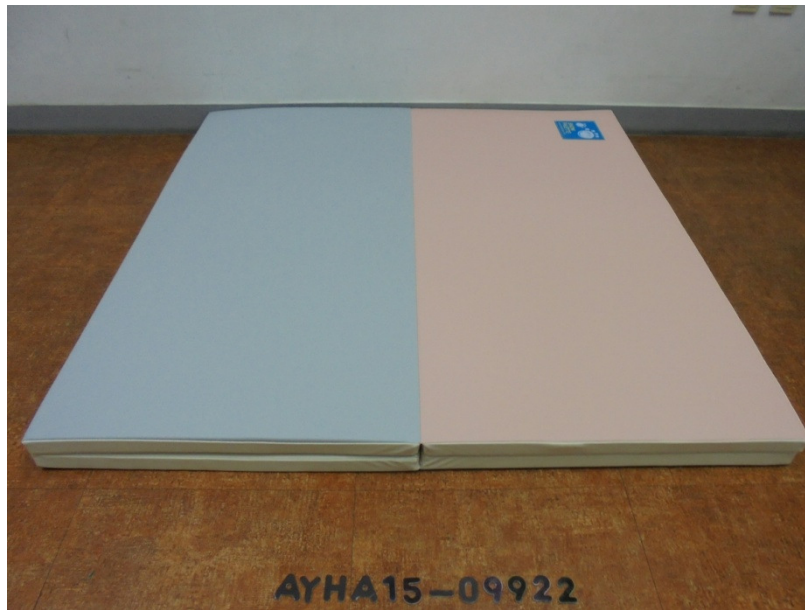
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