

Test Report

Date : 2020-05-15
No. : SP20050004

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Applicant : Hayes Specialties Corporation
1761 East Genesee Avenue, Saginaw MI 48601
Attn: MIKE

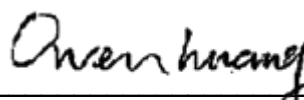
Buyer : Hayes Specialties Corporation

Description of Samples : One (1) group of submitted samples said to be:
SEE PAGE TWO
P/O NO.: 342012
COUNTRY OF ORIGIN: CHINA
COUNTRY OF DESTINATION: USA
AGE GRADING FOR APPLICANT: ABOVE 3 YEARS

Date Samples Received : 2020-05-06

Date Tested : 2020-05-06 to 2020-05-15

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test(Apart from clause 7.1) - flammability test - heavy metal test	Pass
2. US Consumer Product Safety Improvement Act - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
3. The Total Lead content requirements according to the California Proposition 65	Pass
4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.	Pass
5. Total cadmium content requirements according to the California Proposition 65.	Pass
6. The Total Lead content requirements according to Illinois Public Act 095-1019	Pass
7. The Phthalates content requirements according to California Assembly Bill NO.1108	Pass
8. San Francisco Health Code - Phthalates content in accordance with Article 34, sec 34.2	Pass



HUANG Qinglai, Owen
Authorized Signatory



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ITEM NO.	DESCRIPTION	P/O NO.
HX4826	Plush Seal w/Big Eyes- 15 Inches- Purple and Blue Assorted	342012
HX4839	Plush Colorful Alligator- 11 inch- Assorted Patterns	342012
HX4858	Plush Food w/Smile Face- 5 Inch Average-6 Asst	342013
HX4859	Mini Plush Unicorn Pillow- 5 Inch Diameter- Pink w/Printed Designs and Hanger Loop	342013
HX4860	Medium Plush Rainbow Sloth- 11 Inch- High Pile Material w/Velcro Hands	342013
HX4861	Large Plush Rainbow Sloth- 19 Inch- High Pile Material w/ Velcro Hands	342013
HX4862	Extra Large Plush Rainbow Sloth- 28 Inch- High Pile Material w/Velcro Hands	342013
HX4863	Jumbo Plush Rainbow Sloth- 35 Inch- High Pile Material w/ Velcro Hands	342013
HX4864	Large Plush Unicorn w/Rainbow Accents- 17 Inch- Pink and Purple Assorted	342013
HX4865	Small Plush Shark- 8.5 Inch- Asst Colors	342013
HX4866	Medium Plush Shark- 12 Inch- Asst Colors	342013
HX4867	Large Plush Shark- 19 Inch- Asst Colors	342013
HX4868	Extra Large Plush Shark- 30 Inch- Asst Colors	342013
HX4869	Super Jumbo Plush Shark- 40 Inch- Asst Colors	342013
HX4870	Extra Large Plush Unicorn w/Rainbow Accents- 24 Inch- Pink and Purple Assorted	342013
HX4871	Small Plush Taco- 8 Inch w/Smile Face	342013
HX4872	Medium Plush Taco- 12 Inch w/Smile Face	342013
HX4873	Large Plush Taco- 15 Inch w/Smile Face	342013
HX4874	Extra Large Plush Taco- 24 Inch w/Smile Face	342013
HX4875	Small Plush Avocado- 8 Inch w/Smile Face	342013
HX4876	Medium Plush Avocado- 12 Inch w/Smile Face	342013
HX4877	Large Plush Avocado- 17 Inch w/Smile Face	342013
HX4878	Extra Large Plush Avocado- 24 Inch w/Smile Face	342013
HX4879	Super Jumbo Plush Black Cat- 36 Inch	342013
HX4880	Small Plush Polka Dot Turtle- 10 Inch- Asst Colors	342013
HX4881	Medium Plush Polka Dot Turtle- 14.5 Inch- Asst Colors	342013
HX4882	Large Plush Polka Dot Turtle- 21 Inch- Asst Colors	342013
HX4883	Medium Plush Llama- 14 Inch- Striped Bright Colors	342013
HX4884	Large Plush Llama- 20 Inch- Striped Bright Colors- 2 Asst	342013
HX4886	Extra Large Plush Llama- 27 Inch- Striped Bright Colors- 2 Asst	342013
HX4887	Jumbo Plush Llama- 34 Inch- Striped Bright Colors- 2 Asst	342013
HX4888	Medium Plush White Horse w/Rainbow Mane/Tail- 12 Inch	342013
HX4889	Medium Plush Husky / Wolf- 15 Inch- Top-Quality High Pile Plush Material	342013
HX4891	Medium Plush Pastel Llama- 14 Inch- Striped Multicolors	342013
HX4892	Large Plush Pastel Llama- 20 Inch- Striped Multicolors	342013
HX4893	Extra Large Plush Pastel Llama- 24 Inch- Striped Multicolors	342013

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The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

Item No.	Component Description
Plastic materials:	
<u>1</u>	(HX4860)(HX4861)(HX4862)(HX4863)eye: transparent with black/gold
<u>2</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)eye: transparent with black/gray
<u>3</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)(HX4871)(HX4872)(HX4873)(HX4874)(HX4889)eye: transparent with black/blue
<u>4</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)eye: transparent with black/pink
<u>5</u>	(HX4889)(HX4891)(HX4892)(HX4893)(HX4839)nose/eye: black
Textile materials:	
<u>6</u>	(HX4858)pizza: yellow with multicolour
<u>7</u>	(HX4858)hamburger: yellow with multicolour
<u>8</u>	(HX4858)hot dog: green with multicolour
<u>9</u>	(HX4858)sandwich: green with multicolour
<u>10</u>	(HX4858)french fries: blue with multicolour
<u>11</u>	(HX4858)soda: : blue with multicolour
<u>12</u>	(HX4858)back: green
<u>13</u>	(HX4858)back: red
<u>14</u>	(HX4858)back: blue
<u>15</u>	(HX4858)rope: blue
<u>16</u>	(HX4858)rope: green
<u>17</u>	(HX4858)rope: red
<u>18</u>	(HX4859)horse: pink with multicolour
<u>19</u>	(HX4859)unicorn: pink with multicolour
<u>20</u>	(HX4859)(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)(HX4888)(HX4839)rope: light pink
<u>21</u>	(HX4859)(HX4888)(HX4839)back: light pink
<u>22</u>	(HX4860)(HX4861)(HX4862)(HX4863)(HX4864)(HX4870)body: multicolour
<u>23</u>	(HX4860)(HX4861)(HX4862)(HX4863)nail: khaki
<u>24</u>	(HX4860)(HX4861)(HX4862)(HX4863)rope: red
<u>25</u>	(HX4860)(HX4861)(HX4862)(HX4863)face/hand: brown
<u>26</u>	(HX4860)(HX4861)(HX4862)(HX4863)face: deep brown
<u>27</u>	(HX4860)(HX4861)(HX4862)(HX4863)thread of mouth: brown*4
<u>28</u>	(HX4864)(HX4870)(HX4880)(HX4881)(HX4882)body: purple
<u>29</u>	(HX4864)(HX4870)body: light pink
<u>30</u>	(HX4864)(HX4870)horn/wing: pink
<u>31</u>	(HX4864)(HX4870)(HX4880)(HX4881)(HX4882)eye: blue, white with black
<u>32</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)belly: pink, black with red
<u>33</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)belly: white
<u>34</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body: gray
<u>35</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body: pink
<u>36</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body: deep blue
<u>37</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)rope: deep blue
<u>38</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)rope: gray
<u>39</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body(little): light pink
<u>40</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body(little): gray
<u>41</u>	(HX4865)(HX4866)(HX4867)(HX4868)(HX4869)body(little): deep blue

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42	(HX4871)(HX4872)(HX4873)(HX4874)rope: yellow
43	(HX4871)(HX4872)(HX4873)(HX4874)body: yellow
44	(HX4871)(HX4872)(HX4873)(HX4874)thread of eye: white
45	(HX4871)(HX4872)(HX4873)(HX4874)(HX4879)(HX4888)(HX4889)watermelon rind/hand/mouth: white
46	(HX4871)(HX4872)(HX4873)(HX4874)(HX4879)(HX4883)(HX4884)(HX4886)(HX4887)(HX4826)watermelon rind/nose/feet: black*4
47	(HX4871)(HX4872)(HX4873)(HX4874)watermelon rind: green
48	(HX4871)(HX4872)(HX4873)(HX4874)watermelon rind: yellow
49	(HX4875)(HX4876)(HX4877)(HX4878)rope green
50	(HX4875)(HX4876)(HX4877)(HX4878)body: deep green
51	(HX4875)(HX4876)(HX4877)(HX4878)face: light brown
52	(HX4875)(HX4876)(HX4877)(HX4878)handle: deep brown
53	(HX4875)(HX4876)(HX4877)(HX4878)body: green
54	(HX4875)(HX4876)(HX4877)(HX4878)thread of eye: brown with white
55	(HX4875)(HX4876)(HX4877)(HX4878)thread of mouth: red*4
56	(HX4879)thread of eye: blue with black
57	(HX4879)(HX4826)rope: black
58	(HX4879)body: black
59	(HX4879)face/hand: white
60	(HX4879)thread: black
61	(HX4880)(HX4881)(HX4882)body: orange
62	(HX4880)(HX4881)(HX4882)body: green
63	(HX4880)(HX4881)(HX4882)belly: light green
64	(HX4880)(HX4881)(HX4882)back: blue with multicolour
65	(HX4880)(HX4881)(HX4882)back: purple with multicolour
66	(HX4880)(HX4881)(HX4882)back: orange with multicolour
67	(HX4883)(HX4884)(HX4886)(HX4887)body: purple
68	(HX4883)(HX4884)(HX4886)(HX4887)body: yellow, green with pink
69	(HX4883)(HX4884)(HX4886)(HX4887)body: pink, purple with orange
70	(HX4883)(HX4884)(HX4886)(HX4887)tail: purple
71	(HX4883)(HX4884)(HX4886)(HX4887)thread of mouth: purple
72	(HX4883)(HX4884)(HX4886)(HX4887)(HX4888)(HX4826)thread: black
73	(HX4888)thread of eye: pink, black with white
74	(HX4888)(HX4891)(HX4892)(HX4893)(HX4839)feet/ear/belly: light blue
75	(HX4888)hair: multicolour
76	(HX4889)body: gray with white
77	(HX4889)thread: black
78	(HX4891)(HX4892)(HX4893)(HX4839)rope: light blue
79	(HX4891)(HX4892)(HX4893)body: multicolour
80	(HX4891)(HX4892)(HX4893)face: milk white
81	(HX4891)(HX4892)(HX4893)thread of mouth: brown
82	(HX4826)thread: blue
83	(HX4826)body: purple
84	(HX4826)thread: white*4
85	(HX4826)body: blue
86	(HX4839)body: white with multicolour
87	(HX4839)body: blue with multicolour

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88	(HX4839)body: orange with multicolour
89	(HX4839)belly: orange
90	(HX4839)rope: orange
91	(HX4864)(HX4870)(HX4880)(HX4881)rope: purple
<u>Others materials:</u>	
92	(HX4883)(HX4884)(HX4886)(HX4887)eye: silver
93	(HX4826)eye: blue
94	Label: white with multicolour
95	(HX4860)(HX4861)(HX4862)(HX4863)Velcro(male): brown
96	(HX4860)(HX4861)(HX4862)(HX4863)Velcro(female): brown

Test Results:

1.ASTM Standard Consumer Safety Specification for Toy Safety F 963-17

AGE GRADING:

The sample did not contain an age grade; however, it was considered appropriate for children of all ages.

AGE GRADING FOR TESTING:

All ages.

1.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-17

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass*1
4.3	Toxicology	----
4.3.7	Stuffing Materials	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.14	Cords, Straps, and Elastics	Pass
4.27	Stuffed and Beanbag-Type Toys	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading labeling	*2
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	*3

*1 = Please refer to section 1.2 of this report for details.

*2 = See age grading.

*3 = There were no producer's/distributor's name and address on the submitted sample.

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Test Results:

Use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	10 drops at 4.5 ft
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

1.2 Flammability test for solids and soft toys

Ref.: ASTM F963-17 Section 4.2

Method used: FHSA 16CFR 1500.44

Result: pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Pink horse ball	DNI
Big black cat	DNI
Big shark(grey)	DNI
pizza	DNI
Tortoise	DNI
Shark(grey)	DNI
Pink shark	DNI
Black cat	DNI
Bean	DNI
Sheep	DNI
Lemon	DNI
Unicorn	DNI
Dog	DNI

DNI = Did not ignite

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

1.3 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer & Inductively Coupled Plasma Mass Spectrometry

4.3.5.2 Toys Substrate Materials

Total lead analysis

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Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	100ppm
<u>4+5</u>	<10ppm	100ppm
<u>92+93</u>	<10ppm	100ppm
<u>94</u>	<10ppm	100ppm
<u>95</u>	<10ppm	100ppm
<u>96</u>	<10ppm	100ppm

Soluble metals test

*4 = There were insufficient materials to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weight of the specified materials used for analysis were shown below :

- 27 (HX4860)(HX4861)(HX4862)(HX4863)thread of mouth: brown(23.9mg)
- 46 (HX4871)(HX4872)(HX4873)(HX4874)(HX4879)(HX4883)(HX4884)(HX4886)(HX4887)(HX4826)watermelon rind/nose/feet: black(52.8mg)
- 55 (HX4875)(HX4876)(HX4877)(HX4878)thread of mouth: red(41.1mg)
- 84 (HX4826)thread: white(69.7mg)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	38ppm	43ppm	32ppm^	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	34ppm^	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	7ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	7ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>29</u>	<u>30</u>	<u>31</u>	<u>32</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	34ppm^	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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	<u>33</u>	<u>34</u>	<u>35</u>	<u>36</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	8ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>45</u>	<u>46</u>	<u>47</u>	<u>48</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	7ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>49</u>	<u>50</u>	<u>51</u>	<u>52</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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	<u>53</u>	<u>54</u>	<u>55</u>	<u>56</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>57</u>	<u>58</u>	<u>59</u>	<u>60</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	7ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	9ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>61</u>	<u>62</u>	<u>63</u>	<u>64</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	6ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>65</u>	<u>66</u>	<u>67</u>	<u>68</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	11ppm	11ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>69</u>	<u>70</u>	<u>71</u>	<u>72</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	6ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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	<u>73</u>	<u>74</u>	<u>75</u>	<u>76</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	16ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>77</u>	<u>78</u>	<u>79</u>	<u>80</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	36ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	9ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>81</u>	<u>82</u>	<u>83</u>	<u>84</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>85</u>	<u>86</u>	<u>87</u>	<u>88</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	22ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>89</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

Note: < denotes less than.

^ = The reported value is an adjusted analytical value calculated in accordance with the standard ASTM F963 section 8.3.4.3

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	100ppm
4+5	<10ppm	100ppm
<u>92+93</u>	<10ppm	100ppm
<u>94</u>	<10ppm	100ppm
<u>95</u>	<10ppm	100ppm
<u>96</u>	<10ppm	100ppm

Note: < denotes less than.

2.2 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR PART 1307

Determined by: Gas Chromatography with Mass Selective Detector

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit (ppm)</u>
		<u>1+2+3</u>	<u>4+5</u>	<u>92+93</u>	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

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Test Results:

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		94	95+96	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Note: < denotes less than.

3. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Sample	Result	Limit
<u>1+2+3</u>	<10ppm	100ppm
<u>4+5</u>	<10ppm	100ppm
<u>92+93</u>	<10ppm	100ppm
<u>94</u>	<10ppm	100ppm
<u>95</u>	<10ppm	100ppm
<u>96</u>	<10ppm	100ppm

Note: < denotes less than.

4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+2+3</u>	<u>4+5</u>	<u>92+93</u>	<u>94</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>95+96</u>			
- Di-n-butyl phthalate (DBP)	<100ppm			
- Benzyl-n-butyl phthalate (BBP)	<100ppm			
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm			
- Di-n-Hexyl phthalate (DnHP)	<100ppm			
- Di-iso-nonyl phthalate(DINP)	<100ppm			
- Di-iso-decyl phthalate(DIDP)	<100ppm			

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Test Results:

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

5. The Total cadmium content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<5ppm	75ppm
<u>4+5</u>	<5ppm	75ppm
<u>92+93</u>	<5ppm	75ppm
<u>94</u>	<5ppm	75ppm
<u>95</u>	<5ppm	75ppm
<u>96</u>	<5ppm	75ppm

Note: < denotes less than.

6. The Total Lead Content requirements according to Illinois Public Act 095-1019

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	40ppm
<u>4+5</u>	<10ppm	40ppm
<u>92+93</u>	<10ppm	40ppm
<u>94</u>	<10ppm	40ppm
<u>95</u>	<10ppm	40ppm
<u>96</u>	<10ppm	40ppm

Note: < denotes less than.

7. Phthalates content

Ref.: California Assembly Bill NO.1108

Determined by: Gas Chromatography with Mass Selective Detector

A. Any toy or children article

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>1+2+3</u>	<u>4+5</u>	<u>92+93</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>		<u>Limit(ppm)</u>
		<u>94</u>	<u>95+96</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	1000

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Test Results:

B. Any toys and children articles which can be placed in mouth for children under 3 years

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1+2+3	4+5	92+93	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		94	95+96	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	1000

Note: < denotes less than.

8. Phthalates content

Ref.: San Francisco Health Code Article 34, sec 34.2

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+2+3</u>	<u>4+5</u>	<u>92+93</u>	<u>94</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>95+96</u>			
- Di-n-butyl phthalate (DBP)	<100ppm			
- Benzyl-n-butyl phthalate (BBP)	<100ppm			
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm			
- Di-n-octyl phthalate(DNOP)	<100ppm			
- Di-iso-nonyl phthalate(DINP)	<100ppm			
- Di-iso-decyl phthalate(DIDP)	<100ppm			

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

STC (Shanghai) Company Limited

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The photo of submitted samples



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***** End of Test Report *****

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2. Any report issued by the Company as a result of this application for testing service (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3 ,the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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