Technical Report: **96240740648** MARCH 26, 2024
Date Received: MARCH 14, 2024

CONG TY TNHH XIN HUI
LO 1C4, DUONG CN8, KHU CONG NGHIEP TAN BINH, XA HUNG HOA, HUYEN BAU BANG, TINH BINH DUONG
VIET NAM

Sample Description:	FOAM UK2570		
Vendor:	CONG TY TNHH XIN HUI	Sample Size:	/
Manufacturer:	/	VPN:	/
Buyer:	/	SKN/SKU No.:	/
Agent:	/		/
Labeled Age Grade:	/	PO No.:	/
Appropriate Age Grade:	/	Ref #:	/
Client Specified Age Grade:	/	Country of Origin:	/
Tested Age Grade:	/	Assortment No.:	/
UPC Code:	/	Department No.:	/
Phase of Production:	/	Item#:	/
Color:	/	Date of Production:	/
Program:	/	Model/Style#:	/
Previous No:	N/A	Country of Destination:	/

TEST PROPERTY	PASS	FAIL	DATA	N/A	Remark
ISO 8307, Resilience			X		
Flame Retardants Content			X		
Flame Retardants Content in Upholstered Furniture - California Proposition 65	X				
Melamine content			X		
Calcium carbonate content			X		
CA TB 117-2013-section 3- Flammability of resilient filling material test	X				

Note(s):

- Testing was conducted in white foam only
- This report includes the test result(s) which was conducted & reviewed by Analytical department.

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (VN) LTD.

TERRY NGUYEN
LAB MANAGER – HARDLINE, TOYS & JUVENILE PRODUCTS DIVISION

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

Test Item(s)	Sample description/ Location	Material	Style(s)
I001	Foam	Soft plastic	-

TEST RESULT

Flame Retardants Content in Upholstered Furniture - California Proposition 65

Test Method : Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit :	Each of all listed flame retardants - Not detectable (Less than 5 mg/kg)

Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
I001	ND	ND	mg/kg	PASS

Note / Key :

Detection Limit (mg/kg) : Each of the listed flame retardants: 5

Remark :

- The list of flame retardants is summarized in table of Appendix.
- Product(s) with flame retardant(s) content exceeding this limit has (have) to reformulate.

APPENDIX

List of Flame Retardants [California Proposition 65 - Upholstered Furniture] :					
No.	**Name of Analyte(s)**	**CAS-No.**	**No.**	**Name of Analyte(s)**	**CAS-No.**
1	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	3	Tris(2,3-dibromopropyl) phosphate	126-72-7
2	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	-	-	-
CAS-No. = Chemical Abstracts Service registry number					

TEST RESULT

Flame Retardants Content

Test Method : Organic solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS)

Limit :	**-**

Test Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	ND	ND	mg/kg	DATA

Note / Key :
ND = Not detected ">" = Greater than Conc. = Concentration
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) : 5

Remark:
- The list of flame retardants is summarized in table of Appendix.

APPENDIX

No.	**Name of Analytes**	**No.**	**Name of Analytes**
1	Tris(l,3-dichloro-2-propyl) phosphate(TDCPP)	9	4-(tert-butyl)phenyl diphenyl phosphate(MDPP)
2	Tris(2-chloroethyl) phosphate (TCEP)	10	Bis(tert-butylphenyl) phenyl phosphate(DBPP)
3	Tris(l-chloro-2-propyl) phosphate (TCPP)	11	Tris (2,3-dibromopropyl)phosphate (TRIS or TDBPP)
4	Polybromodiphenyl ethers (PBDEs) (penta-BDE/octa-BDE/ deca-BDE)	12	Tris(4 tertbutylphenyl phosphate) (TBPP)
5	2-ethylhexyl tetrabromobenzoate(TBB)	13	Tris(2,3-dibromopropyl) phosphate (HBCDD)
6	Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate(TBPH)	14	TMP (trimethyl phosphate)
7	2,2-bis(chloromethyl) trinethylene bis(bis(2-chloroethyl) phosphate) (V6)	15	Tetrabromobisphenol A(TBBPA)
8	Triphenylposphate(TPP)	-	-

TEST RESULT

Melamine content

Test Method **:** In-House method: GC-MS analysis

Maximum Allowable Limit:	***/***

-	**Unit**	**Result**
Test Item(s)	-	I001
Parameter	-	-
Melamine	mg/kg	ND
Conclusion	-	DATA

Note / Key :

ND = Not detected
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg) : 5

NA = Not applicable

“>” = Greater than

TEST RESULT

Calcium carbonate content

Test Method **:** In-house method: ICP-OES analysis

Maximum Allowable Limit :	***/***

-	**Unit**	**Result**
Test Item(s)	-	I001
Parameter	-	-
Calcium carbonate ($CaCO_3$)	%	ND
Conclusion	-	DATA

Note / Key :

ND = Not detected “>” = Greater than NA = Not applicable
% = percent
Detection Limit (%) : 0.05
The result is calculated from Calcium content

RESULT(S):

Flammability of resilient filling material test

Test Method : California Technical Bulletin CA TB 117-2013 section 3

Tested Item(s) : FOAM

RESULT FOR INITIAL TEST:			
SPECIMEN	TRANSITION TO OPEN FLAMING	SMOLDERING	CHAR LENGTH (IN)
1	N	N	0.4
2	N	N	0.4
3	N	N	0.5

RESULT FOR ADDITIONAL TEST: N/A			
SPECIMEN	TRANSITION TO OPEN FLAMING	SMOLDERING	CHAR LENGTH (IN)
1	/	/	/
2	/	/	/
3	/	/	/
OVERALL RATING:	PASS		

Note / Key:

Y=Yes	N=No	P=Pass	F=Fail
DATA = Record data only	NA = Not Applicable	NR= Not requested	NT=Not Tested

PASS/FAIL CRITERIA

A material is considered to pass or fail based on the following criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:

a) The mock-up test specimen continues to smolder after the 45 minute test duration;

b) A vertical char length (measured as described in step 17.9 of ASTM E1353-08a$^{\varepsilon 1}$) of more than 1.5 inches (38 mm) develops on the cover fabric.

c) The mock-up test specimen transitions to open flaming.

2. The resilient filling material passes the test if three mock-up specimens pass the test.

3. If more than one specimen fails, the resilient filling material fails the test.

4. If any one of the three initial specimens fails, repeat the test on additional three specimens.

5. If all three additional specimens pass the test, the resilient filling material passes the test. If any one of the additional three specimens fails, the resilient filling material fails the test.

RESULT(S):

<table>
<tr><th>Evaluation</th><th>Citation / Method</th><th>Criteria</th><th>Results</th><th>Rating</th></tr>
<tr>
<td>Resilience</td>
<td>ISO 8307</td>
<td>Resilience is an indicator of the surface elasticity and springiness. The nominal resilience of foam must be specified according to ISO 8307.
Testing is performed by dropping a steel ball onto the foam sample from a specified drop height and measuring rebound. The resilience is expressed as the rebound height in percent of the initial drop height.

The ball rebound height, h, in mm, is given by the following formula:

$h = h_o \times \frac{g \times t_m^2}{8}$

where
ho is the light barrier height form the test piece surface, expressed in mm;
g is the acceleration due to gravity, expressed in m/s2;
tm is the time between the two crossings, expressed in s

The percentage rebound value, R, can then be calculated from the following formula:

$R = \frac{h}{h_{max}} \times 100$

Where h_{max} is the height of the drop (500mm)</td>
<td>
<table>
<tr><th>Specimen #</th><th>R(%) The percentage rebound value</th></tr>
<tr><td>1</td><td>27.66</td></tr>
<tr><td>2</td><td>27.82</td></tr>
<tr><td>3</td><td>28.16</td></tr>
</table>
The percentage rebound value average: 27.88 %
</td>
<td>DATA</td>
</tr>
</table>

Results Key:

M	Meets	NM	Does Not Meet
NA	Not Applicable	NT	Not Tested
C	Claimed	R	Recorded