

**Test Report** No.: T51910231982TY Date: APR 25, 2019 Page 1 of 10

**BLOOMINGVILLE A/S** 

LENE HAUS VEJ 3-5 DK-7430 IKAST DENMARK

The following samples were submitted and identified by/on behalf of the client as:

PLAY SET, FOOD, MULTI-COLOR, PLYWOOD

Item No. 82045197 P.O. / Ref. No. 64570

Importer **BLOOMINGVILLE A/S** Buyer **BLOOMINGVILLE A/S** Supplier **BLOOMINGVILLE A/S** Manufacturer **BLOOMINGVILLE A/S** 

Country of Origin **CHINA** Country of Destination **DENMARK** Labeled Age Grading + 24 MONTHS Requested Age Grading + 24 MONTHS Sample Receiving Date APR 17, 2019

**Testing Period** APR 17, 2019 TO APR 25, 2019



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Test	Test Requested					
1.	For compliance with the European standard on Safety of toys:-					
	EN 71-2:2011+A1:2014 - Safety of toys - Part 2: Flammability	PASS				
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738 – EN 71-3:2013 + A3:2018 – Migration of certain elements (All conclusive testing)	PASS				

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

Signed for and on behalf of SGS-CSTC Standards Technical

Services Co., Ltd. Shenzhen Branch Testing Center

Liu Junjie, Tony Section Manager Ouyang Qin, Cansy Operation manager





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Results:

#### EN 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u> <u>Description</u>
4.1 <u>General requirements</u>

Result Pass

Type of gas: Butane gas used in the test burner

# <u>Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738 – EN 71-3:2013 + A3:2018 – Migration of certain elements</u>

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2013 + A3:2018. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis and organic tin was analyzed by GC-MS.

Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			1	2	3		
Mass of trace amount		(mg)	57.1	27.2			
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	163	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	0.53	0.42	0.56	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94



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Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			1	2	3		
Mass of trace amount		(mg)	57.1	27.2			
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	159	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	67	160	50	46000

Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			4	5	6		
Mass of trace amount		(mg)					
Soluble Aluminium	(AI)	(mg/kg)	ND	189	139	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	ND	0.39	0.32	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	114	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	154	52	50	46000



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Test Item(s)		Result(s)			Permissible Limit		
Specimen No.	7	8	9				
Mass of trace amount		(mg)					
Soluble Aluminium	(AI)	(mg/kg)	102	95	136	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	0.80	0.36	0.28	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	147	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	89	199	237	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.	10	11	12				
Mass of trace amount		(mg)		96.6			
Soluble Aluminium	(AI)	(mg/kg)	160	185	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	0.26	0.93	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	122	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	233	230	ND	50	46000



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Test Item(s)		Result(s)			Permissible Limit		
Specimen No.			13	14	15		
Mass of trace amount		(mg)		70.0	69.5		
Soluble Aluminium	(AI)	(mg/kg)	58	96	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	0.37	0.82	0.56	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	111	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	115	ND	50	46000



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Test Item(s)		Result(s)			Permissible Limit		
Specimen No.			16	17	18		
Mass of trace amount		(mg)					
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	(mg/kg)	ND	0.43	0.17	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	10	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	62	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	580	ND	50	46000

# Specimen Description:

- 1. Dull pink coating on hardboard (Coaster)
- 2. Light grey coating on hardboard (Coaster)
- 3. Dull blue w/ white coating on hardboard (Coaster)
- 4. Light cream wood (Cap)
- 5. Dull blue w/ pink, white coating on wood (Cap)
- 6. White coating on wood (Cap, cake)
- 7. Dull pink w/ white coating on wood (Cap, spoon)
- 8. Blue w/ pink, white coating on wood (Pot)
- 9. Light grey w/ pink, white coating on wood (Pot)



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### Specimen Description:

- 10. Light grey w/ white coating on wood (Cup)
- 11. Light blue w/ white coating on wood (Cup)
- 12. Cream wood (Pot, cap, cup, spoon, cake)
- 13. Purple w/ white coating on wood (Cake)
- 14. Pink coating on wood (Cake)
- 15. Yellow coating on wood (Cake)
- 16. Cream plywood (Salver)
- 17. Transparent lacquer coating on plywood (Salver)
- 18. Brown hardboard (Coaster)

Note: - mg/kg = milligram per kilogram

- mg = milligram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- -1% = 10000 mg/kg = 10000 ppm
- As received, test portion of black coating on plywood (Lettering), dull pink coating on wood (Pot) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2013 + A3:2018.

N.B.: - Only applicable clauses were shown.





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## Sample Photo:



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\*\*\* End of Report \*\*\*

