



**BUREAU
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

Technical Report: (6621)141-1098
Date Received: MAY.17,2021
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JUN.02,2021
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ZHEJIANG KAISI OUTDOOR PRODUCTS CO.,LTD
NO.8,XINYA ROAD,SANXI INDUSTRIAL PARK,
OUHAI,WENZHOU,ZHEJIANG

Sample Description: CHILD CANVAS HAMMOCK
Manufacturer: MAXIMILIAN FITSCH PO No.: /
Buyer: / Style No /
Country of Origin: CHINA Country of GERMANY
Destination:
Color: GREEN SKU No.: /
Protocol No.: / Previous Report No.: /
Tested Age Grade: / Other: /

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION	Remark
1) Total Lead Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Latest Amendment, Annex XVII, Entry 63, Point 7	PASS	/
2) Total Cadmium Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 23	PASS	/
3) Phthalates Content - Regulation (EC) No. 1907/2006, Annex XVII, Item No. 51 and 52	PASS	/
4) Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 6	PASS	/
5) Azo Dyes Content (Analysis of Amines in Dyestuff) – Regulation (EC) No. 1907/2006 Annex XVII Entry 43	PASS	/
6) Organotin Compounds Content - Regulation (EC) No. 1907/2006, Annex XVII, Entry. 20	PASS	/
7) Nickel Release for Articles intended to come into Direct and Prolonged Skin Contact - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Annex XVII, Entry 27, Points 1(b) and 1(c)	PASS	/
8) Loading test	PASS	/

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ZHEJIANG KAISI OUTDOOR PRODUCTS CO.,LTD

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REMARK:

The client specifies the test methods and requirements and test items.

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Hyde Bao
PRODUCT LINE MANAGER(HARDLINE DIVISON)

**The Test Results are Listed As Below:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	Yellow fabric	body	-
2	Red fabric	Zipper fabric	-
3	Black fabric	webbing	-
4	Silver metal	hook	-
5	Silver metal	pole	-
6	Silver metal	buckle	-
7	Red plastic	Zipper teeth	-
8	Blue soft plastic	body	-
9	Transparent plastic	Inflation inlet	-
10	Blue soft plastic	tube	-
11	White plastic	Tube inlet	-
12	Black plastic	cap	-
13	Black plastic	plug	-
14	Blue plastic	plug	-
15	Red plastic	plug	-
16	Yellow plastic	body	-
17	Green fabric	body	-

1.Total Lead Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Latest Amendment, Annex XVII, Entry 63, Point 7

Maximum allowable Limit:	Less than 500 mg/kg
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-	Unit	Result			
Test Item(s)	-	4	5	6	7+9+11
Total Lead (Pb)	mg/kg	23.5	36.3	28.5	<10
Conclusion	-	PASS	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	-	8+10	12+16	13+14+15
Total Lead (Pb)	mg/kg	<10	<10	<10
Conclusion	-	PASS	PASS	PASS

Note / Key :

ND = Not detected ">" = Greater than
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10 000 mg/kg = 1 %
 % = percent Detection Limit (mg/kg) : 10

Remark :

- Accessible surface coating, print, metal and plastic in article(s) or part(s) of article(s), during normal or reasonably foreseeable condition of use, which may be placed in the mouth by children are applicable to be tested.
- Without applying to this requirement, exemption can granted to article(s) or part(s) of article(s) placed on the market for the first time before June 1, 2016, brass alloy containing up to 0.5 % lead by weight and those listed in Comment section.
- Acceptable documentation is required to verify the material type(s) as recommended by Bureau Veritas Consumer Products Services, Inc.

Comment :

List of Materials, Components or Articles which are not applicable to this Requirement :	
No.	Material / Component / Article Description
1	Jewellery articles covered by European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Latest Amendment, Annex XVII, Entry 63, Point 1.
2	Crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) to European Council Directive 69/493/EEC.
3	Non-synthetic or reconstructed precious and semiprecious stones [Combined Nomenclature (CN) code 7103, as established by European Council Regulation (EEC) No. 2658/87], unless they have been treated with lead or its compounds or mixtures containing these substances.
4	Enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a temperature of at least 500 degree Celsius (°C).
5	Keys and locks, including padlocks.
6	Musical instruments
7	Articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the brass alloy does not exceed 0.5 % by weight.
8	The tips of writing instruments
9	Religious articles
10	Portable zinc-carbon batteries and button cell batteries
11	Articles within the scope of : (i) European Council Directive 94/62/EC; (ii) European Parliament and Council Regulation (EC) No. 1935/2004; (iii) European Parliament and Council Directive 2009/48/EC; (iv) European Parliament and Council Directive 2011/65/EU

**2.Total Cadmium Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 23**

Compounds	Unit	Tested item				Maximum allowable Limit
		7+9+11	8+10	12+16	13+14+15	
Cadmium (Cd)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Note: mg/kg = milligram per kilogram
“<” = less than

Method: 1. Plastic - EN 1122: 2011, Method B
2. Paint - Sample was digested with nitric acid, then the cadmium content was analyzed by Atomic Absorption Spectrophotometer.

Remarks: 1. The test items were specified by the applicant



3.Phthalates Content - Regulation (EC) No. 1907/2006, Annex XVII, Item No. 51 and 52

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

Maximum Allowable Limit:	DBP, BBP, DEHP and DIBP: 0.10 % (Each); 0.10 % (Sum) DNOP, DIDP and DINP: 0.10 % (Each); 0.10 % (Sum)
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Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
7+9+11	ND	ND	%	PASS
8+10	ND	ND	%	PASS
12+16	ND	ND	%	PASS
13+14+15	ND	ND	%	PASS

Note:

ND = Not detected ">" = More than
 % = percent = 10000 mg/kg mg/kg = milligram per kilogram
 Detection Limit (%): Each 0.005; Sum (DBP, BBP, DEHP&DIBP) 0.015;
 Sum (DNOP, DIDP & DINP) 0.015

Remark:

- The list of phthalates is summarized in table of Appendix.

APPENDIX

List of Phthalates:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	4	Di-n-octyl phthalate (DNOP)	117-84-0
2	Dibutyl phthalate (DBP)	84-74-2	5	Di-iso-nonyl phthalate (DINP)	28553-12-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	6	Di-iso-decyl phthalate (DIDP)	26761-40-0
7	Diisobutyl phthalate (DIBP)	84-69-5			

APPENDIX

List of Polycyclic Aromatic Hydrocarbons [European Parliament and Council Regulation EC No. 1907/2006, Annex XVII, Entry 50, Point 5] :					
No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Benzo[a]pyrene (BaP)	50-32-8	5	Benzo[b]fluoranthene (BbFA)	205-99-2
2	Benzo[e]pyrene (BeP)	192-97-2	6	Benzo[j]fluoranthene (BjFA)	205-82-3
3	Benzo[a]anthracene (BaA)	56-55-3	7	Benzo[k]fluoranthene (BkFA)	207-08-9
4	Chrysene (CHR)	218-01-9	8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3
CAS-No. = Chemical Abstracts Service registry number					



6.Organotin Compounds Content - Regulation (EC) No. 1907/2006, Annex XVII, Entry. 20

Test Method : In house method (ICP screening / GCMS analysis)

Maximum Allowable Limit: (See Comment For The List Of Sample Type)	Type I	Tri-substituted organotin compounds: 0.1% by weight of tin (Sum)
	Type II	DBT: 0.1% by weight of tin
	Type III	DOT: 0.1% by weight of tin

-	Unit	Result			
Tested Item(s)	-	7+9+11	8+10	12+16	13+14+15
Type	-	I, II & III	I, II & III	I, II & III	I, II & III
Parameter	-	-	-	-	-
Sum of all tri-substituted organotin compounds (Refer to Appendix)	%	ND	ND	ND	ND
DBT	%	ND	ND	ND	ND
DOT	%	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS

Note: ND = Not detected ">" = More than Conc. = Concentration
 % = percent by weight
 Detection Limit (%): Each 0.01

Remark: - The list of organotin compounds is summarized in table of Appendix.

List of Sample Types :	
Type	Description
I	Articles, or part thereof, placed on the market after July 1, 2010
II	Mixtures or articles, or part thereof, placed on the market after January 1, 2012, except materials and articles regulated under Regulation (EC) No. 1935/2004; and the following mixtures or articles, or part thereof, placed on the market after January 1, 2015, - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor application, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades.
III	Articles, or part thereof, placed on the market after January 1, 2012, including - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)

APPENDIX

List of Organotin Compounds:			
Type	Name of Analytes	Type	Name of Analytes
I	Tri-substituted organotin compounds - Tripropyltin (TPT) - Tributyltin (TBT) - Trioctyltin (TOT) - Triphenyltin (TPhT) - Tricyclohexyltin (TcyT)	III	Diocetyl tin (DOT)
II	Dibutyltin (DBT)	-	-

7.Nickel Release for Articles intended to come into Direct and Prolonged Skin Contact - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Annex XVII, Entry 27, Points 1(b) and 1(c)

Test Method I : European Standard EN 1811: 2011 with Amendment A1: 2015.

Test Method II : European Standard EN 12472: 2005 with Amendment A1: 2009 and European Standard EN 1811: 2011 with Amendment A1: 2015.

Maximum Allowable Limit : (Every trial)	0.5 mcg/sq. cm/week
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	Result		
Test Item(s)	5		
Test Method	II		
Parameter	Surface Area	Volume of Test Solution	Nickel (Ni) Release
Unit	sq. cm	mL	mcg/sq. cm/week
Test Sample(s) / Trial(s)	-	-	-
Trial 1 - Measurement 1	1.41	2	<0.05
Trial 1 - Measurement 2	1.41	2	<0.05
Trial 2 - Measurement 1	1.41	2	<0.05
Trial 2 - Measurement 2	1.41	2	<0.05
Trial 3 - Measurement 1	1.41	2	<0.05
Trial 3 - Measurement 2	1.41	2	<0.05
Conclusion	PASS		

Note / Key :

“<” = Less than “>” = Greater than sq. cm = square centimeter(s)
 mL = milliliter(s) mcg/sq. cm/week = microgram(s) per square centimeter per week
 No. = Number(s)

Remark :

- The starting date and the completion date of this (these) test(s) was < **May 18, 2021** > and < **May 28, 2021** > respectively.

Interpretation of Result(s) [EC No. 1907/2006 Annex XVII, Entry 27, Points 1(b) & 1(c)] :		
Case	Description	Conclusion
I	$X \geq 0.88^{[a]}$	FAIL
II	$X < 0.88^{[a]}$	PASS

X = Analytical result of Nickel (Ni) release in mcg/sq. cm/week
 [a] Migration limit of 0.5 mcg/sq. cm/week with the consideration of combined expanded measurement uncertainty.



8.Loading test

Evaluation	Method	Results	Rating
Loading test	Shall withstand 90kg loading for 30 minutes.	The sample was not be broken and the handle not detach from its mounting after test.	PASS

EXHIBIT



END