

Applicant HH ASSOCIATES US
203 N LA SALLE ST. CHICAGO, IL 60601

Issue Date: Nov 26, 2024

Attn Anis Jun

SAMPLE DESCRIPTION AS DECLARED

Item Name	Fighting Formations, A World At War 4th Printing + Mounted Maps + Supplemental Counters
Item No./SKU No.	--
P. O. No./Reference No.	ZM002959
Quantity	23 PIECES
Applicant Specified Age Grade	OVER 14 YEARS
Vendor	--
Buyer	GMT games
Country/Region of Origin	China
Country/Region of Destination	US and EU
Date Sample Received	NOV 19, 2024
Testing Period	NOV 19, 2024 ~ NOV 26, 2024



For and on behalf of
Intertek Testing Services Shenzhen Ltd.


Rachel L. Guo
General Manager



CONCLUSION		
Tested Sample	Standard/Testing Item	Result
Submitted samples	U.S. CFR Title 16 (CPSC Regulations) Part 1500.3(c)(6)(vi) flammability test on rigid and pliable solids	Pass
Tested component(s) of submitted samples	Model Toxics in Packaging Legislation on toxic elements test (Toxics in Packaging Clearinghouse TPCH)	Pass
	Illinois Lead Poisoning Prevention Act 410 ILCS 45 on total Lead content requirement / Illinois Lead Poisoning Prevention Act 410 ILCS 45 (Public Act 97-612) on warning statement requirement for specified products	Pass
	U.S. CFR Title 16 Part 1303 total Lead content	Pass
	Cadmium Content Requirement in Annex XVII Entry 23 of the EU REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217	Pass
	Heavy Metals Content Requirement in Directive 94/62/EC and amendments on packaging and packaging waste	Pass
	Lead Requirement in Annex XVII Entry 63 of the EU REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 836/2012, (EU) 2015/628, (EU) 2023/923	Pass
	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005	Pass



Flammability Test on Rigid and Pliable Solids (16 CFR 1500.44)

Test method: U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids

Result : Ignited but self-extinguished.

Toxic Elements Analysis (U.S. Toxics in Packaging Clearinghouse TPCHE)

With reference to Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Test Item	Result					Units	D.L.	Limit
	24+25	26+27	-	-	-			
Lead (Pb)	ND	ND	-	-	-	mg/kg	5	-
Cadmium (Cd)	ND	ND	-	-	-	mg/kg	5	-
Mercury (Hg)	ND	ND	-	-	-	mg/kg	5	-
Chromium VI (Cr (VI))	ND	ND	-	-	-	mg/kg	5	-
Sum of Pb, Cd, Hg and Cr (VI)	ND	ND	-	-	-	mg/kg	5	100

Remarks:

D.L. = Detection Limit

ND = Not detected

Only detected element(s) are included in calculation of the sum.

Tested Components: See component list in the last section of this report.

Total Lead (Pb) Content (U.S. Illinois Lead Poisoning Prevention Act 410 ILCS 45)

As per Illinois Lead Poisoning Prevention Act 410 ILCS 45, with reference to CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3 and/or CPSC-CH-E1003-09.1 and followed by Inductively Coupled Argon Plasma Spectrometry and/or Atomic Absorption Spectrometry.

Other non-children product/without warning statement

Test Item	Result					Units	D.L.	Limits	
	1+2+3	4	5+6+7	8+9+10	11+12+13			Warning Statement Limit	Limit
Lead (Pb)	ND	ND	ND	ND	ND	mg/kg	10	--	600

Test Item	Result					Units	D.L.	Limits	
	14	22	-	-	-			Warning Statement Limit	Limit
Lead (Pb)	ND	ND	-	-	-	mg/kg	10	--	600

Remarks:

D.L. = Detection Limit

ND= Not detected

Tested Components: See component list in the last section of this report.



Total Lead (Pb) Content (U.S. 16 CFR Part 1303)

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Test Item	Result					Units	D.L.	Limit
	1+2+3	4	-	-	-			
Lead (Pb)	ND	ND	-	-	-	%	0.001	0.009

Remarks:

D.L. = Detection Limit

ND = Not detected

The above limit was quoted according to U.S. CFR Title 16 Part 1303 for Ban of Lead-containing Paint and Certain Consumer Products Bearing Lead-containing Paint.

Tested Components: See component list in the last section of this report.

Cadmium (Cd) Content (EU REACH Annex XVII Entry 23)

With reference to IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Surface coating

Test Item	Result					Units	D.L.	Limit
	1+2+3	4	-	-	-			
Cadmium (Cd)	ND	ND	-	-	-	%	0.0005	0.1

Plastic

Test Item	Result					Units	D.L.	Limit
	5+6+7	8+9+10	11+12+13	23	-			
Cadmium (Cd)	ND	ND	ND	ND	-	%	0.0005	0.01

Remarks:

D.L. = Detection Limit

The limit was quoted according to EU Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217, Annex XVII Entry 23 on Cadmium Content.

ND = Not detected

Tested Components: See component list in the last section of this report.

Toxic Elements Analysis

Alkaline digestion method was used and Hexavalent Chromium was determined by UV-Visible Spectrophotometry; Acid digestion method was used and Lead, Cadmium and Mercury were determined by Inductively Coupled Argon Plasma Spectrometry.



Test Item	Result					Units	D.L.	Limit
	24+25	26+27	-	-	-			
Lead (Pb)	ND	ND	-	-	-	mg/kg	5	-
Cadmium (Cd)	ND	ND	-	-	-	mg/kg	5	-
Mercury (Hg)	ND	ND	-	-	-	mg/kg	5	-
Chromium VI (Cr (VI))	ND	ND	-	-	-	mg/kg	5	-
Sum of Pb, Cd, Hg and Cr (VI)	ND	ND	-	-	-	mg/kg	5	100

Remarks:

D.L. = Detection Limit

The limit was quoted according to EU Directive 94/62/EC and amendments on packaging and packaging waste, Article 11(1) on Heavy Metals Content.

ND = Not detected

Only detected element(s) are included in calculation of the sum.

Tested Components: See component list in the last section of this report.

Lead (Pb) Content (EU REACH Annex XVII Entry 63)

With reference to IEC 62321-5:2013, acid digestion was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

For articles which may be placed in the mouth by children during normal or reasonably foreseeable conditions of use:

Test Item	Result					Units	D.L.	Limit
	1+2+3	4	5+6+7	8+9+10	11+12+13			
Lead (Pb)	ND	ND	ND	ND	ND	%	0.001	0.05

Test Item	Result					Units	D.L.	Limit
	14	15+16+17	18+19+20	21	22			
Lead (Pb)	ND	ND	ND	ND	ND	%	0.001	0.05

Remarks:

D.L. = Detection Limit

ND = Not detected

The limit was quoted according to EU Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009, (EU) No 836/2012, (EU) 2015/628, (EU) 2023/923, Annex XVII Entry 63 on Lead content in jewellery articles, articles which may be placed in the mouth by children during normal or reasonably foreseeable conditions of use, and PVC materials and articles.

Tested Components: See component list in the last section of this report.

Phthalates Content (EU REACH Annex XVII Entry 51 & 52)

With reference to ISO 8124-6:2023, and phthalates content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

For 4 phthalates



Test Item	CAS No.	Result					Units	D.L.	Limit
		1+2+3	4	5+6+7	8+9+10	11+12+23			
Di-butyl phthalate (DBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-butyl phthalate (DBP) Wmax	84-74-2	ND	ND	ND	ND	ND	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wmax	117-81-7	ND	ND	ND	ND	ND	%	0.005	-
Benzyl butyl phthalate (BBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Benzyl butyl phthalate (BBP) Wmax	85-68-7	ND	ND	ND	ND	ND	%	0.005	-
Di-isobutyl phthalate (DIBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-isobutyl phthalate (DIBP) Wmax	84-69-5	ND	ND	ND	ND	ND	%	0.005	-
Sum of DBP, DEHP, BBP and DIBP Wavg	-	ND	ND	ND	ND	ND	%	0.005	0.1
Sum of DBP, DEHP, BBP and DIBP Wmax	-	ND	ND	ND	ND	ND	%	0.005	0.1

Test Item	CAS No.	Result					Units	D.L.	Limit
		13+14	-	-	-	-			
Di-butyl phthalate (DBP) Wavg	-	ND	-	-	-	-	%	0.005	-
Di-butyl phthalate (DBP) Wmax	84-74-2	ND	-	-	-	-	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wavg	-	ND	-	-	-	-	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wmax	117-81-7	ND	-	-	-	-	%	0.005	-
Benzyl butyl phthalate (BBP) Wavg	-	ND	-	-	-	-	%	0.005	-
Benzyl butyl phthalate (BBP) Wmax	85-68-7	ND	-	-	-	-	%	0.005	-
Di-isobutyl phthalate (DIBP) Wavg	-	ND	-	-	-	-	%	0.005	-
Di-isobutyl phthalate (DIBP) Wmax	84-69-5	ND	-	-	-	-	%	0.005	-



Test Item	CAS No.	Result					Units	D.L.	Limit
		13+14	-	-	-	-			
Sum of DBP, DEHP, BBP and DIBP Wavg	-	ND	-	-	-	-	%	0.005	0.1
Sum of DBP, DEHP, BBP and DIBP Wmax	-	ND	-	-	-	-	%	0.005	0.1

Remarks:

D.L. = Detection Limit

The limit was quoted according to EU Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalates content.

ND = Not detected

W_{avg} = Average content of phthalate in composite samples

W_{max} = Maximum content of phthalate in individual sample

Tested Components: See component list in the last section of this report.

COMPONENT LIST

No.	Test Component Description(s)
(1)	Blue coating on wood (blocks).
(2)	Black coating on plastic (dice).
(3)	White coating on plastic (dice).
(4)	Coatings on paper (pattern of reference card, score card, character sheet, map, card symbols, insert of box of both styles).
(5)	Black plastic (dice).
(6)	Dark blue plastic (dice).
(7)	Blue plastic (dice).
(8)	White plastic (dice).
(9)	Dark grey plastic (dice).
(10)	Pale grey plastic (dice).
(11)	Transparent plastic (seal bag).
(12)	Transparent glue (fastener of record sheet of #0303-24).
(13)	White paper label with transparent plastic film and inaccessible coatings (cover of box).
(14)	White paper with printings (instruction book of both styles, booklet, record sheet of #0303-24).
(15)	Grey paperboard (box).
(16)	White paper card excluding coatings (reference card).
(17)	White paper excluding coatings (map).
(18)	White/grey paperboard excluding coatings (card symbols).



(19)	White paper excluding coating (insert of box).
(20)	Pale grey paper excluding coatings (character sheet).
(21)	Natural color wood excluding coating (blocks).
(22)	Silver color metal (staple of instruction book).
(23)	Transparent plastic adhesive tape (fastener of box).
(24)	Transparent plastic (protective film).
(25)	White/grey paperboard with coatings (edge of card symbols).
(26)	Transparent plastic (zip lock bag).
(27)	White/grey paper board (back of record sheet of #0303-24).

End of Report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results. Full details of our agreed decision rules and the associated risk can be viewed: <https://www.intertek.com.cn/diypage/upload/SZ-AP15-HLS-QA.pdf>.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.

