



# CHINA DRAGON

Inspection & Certification (H.K.) Ltd.

2nd Floor, Block A, 50 Fuk Hi Street, Yuen Long, N.T., Hong Kong.  
Tel: 2675 0606 Fax: 2675 9737 Http://www.cdichk.com E-mail: enquiry@cdichk.com

Test Report

No.SC19477

Date : 20 Mar 2009

MAN KUNG ENTERPRISE CO., LTD  
NO. 522, SEC.4, HENAN RD,  
TAICHUNG CITY 408, TAIWAN

Report on (90) ninety pieces of (9) nine assorted styles of submitted samples said to be Assorted Arrows (REFER TO NEXT PAGE FOR DETAILS).

Buyer : BEAR ARCHERY INC.  
Manufacturer : MAN KUNG ENTERPRISE CO., LTD  
Supplier : MAN KUNG ENTERPRISE CO., LTD  
Country of Destination : USA  
Sample Received Date : 25 Feb 2009  
Testing Period : 25 Feb 2009 – 20 Mar 2009

Test Requested : For compliance with the US CPSIA 2008 H.R.4040 requirements on the following items:  
1. Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101).  
2. Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108)

Test Method : 1. As specified in CPSC 16 CFR Part 1303. Total Lead was performed by acid digestion method F963HM04A.  
Heavy element analysis was performed by Inductively Coupled Plasma – Atomic Emission Spectrometry.  
2. Extraction by ASTM D3421-75 and then analysed by GC-MS.

Results : Please refer to next pages.

Conclusion : The test results of the submitted samples, as tested, were found **NOT** to comply with the US CPSIA 2008 H.R.4040 requirements on the following items:  
1. Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108)

Signed for and on behalf of  
China Dragon I&C (H.K.) Ltd.

  
Mr. KO Kwok-on, Andy / Technical Director



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Description: Assorted Arrows:

Shaft color : Black; Red  
Printing on shaft : Black, Yellow  
Vanes color : White, Yellow, Red, Blue, Green, Black  
Nock end : Black; Yellow  
Point : Metal

Detail as follows:

	Shaft color	Vanes color	Nock end	Printing	Point
1.	Black	White/Yellow	Black	Yellow	Metal
2.	Red	White/Blue	Black	Black	Metal
3.	Red	Red/Blue	Black	Black	Metal
4.	Red	Black/Blue	Black	Black	Metal
5.	Red	Black/White	Black	Black	Metal
6.	Red	Black/Green	Black	Black	Metal
7.	Red	White/Yellow	Black	Black	Metal
8.	Red	White/Red	Black	Black	Metal
9.	Red	White/Yellow	Yellow	Black	Metal



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### Results :

#### 1) Lead Content in Materials and Substrates as on US CPSIA 2008 H.R.4040 (Sec. 101):

##### Details of analytical samples:

- (1) Black plastic with yellow coating (shaft)
- (2) Red plastic with black coating (shaft)
- (3) Yellow plastic (vanes)
- (4) White plastic (vanes)
- (5) Red plastic (vanes)
- (6) Black plastic (vanes)
- (7) Blue plastic (vanes)
- (8) Green plastic (vanes)
- (9) Black plastic (nock end)
- (10) Yellow plastic (nock end)
- (11) Silver metal (point)

Total Lead (Pb)	(1)	(2)			<u>Substrate Limit</u>
	<50	<50			600 ppm
Total Lead (Pb)	(3)	(4)	(5)	(6)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(7)	(8)	(9)	(10)	<u>Substrate Limit</u>
	<50	<50	<50	<50	600ppm
Total Lead (Pb)	(11)				<u>Substrate Limit</u>
	<50				600ppm

### Remarks :

- 1. <= less than
- 2. % = weight per weight percent



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### 2) Phthalates Content as in the US CPSIA 2008 H.R.4040 (Sec. 108):

Detailed analytical sample:

- (1) Yellow plastic (vanes)
- (2) White plastic (vanes)
- (3) Red plastic (vanes)
- (4) Black plastic (vanes)
- (5) Blue plastic (vanes)
- (6) Green plastic (vanes)
- (7) Black plastic (nock end)
- (8) Yellow plastic (nock end)
- (9) Red plastic with black (shaft)
- (10) Black plastic (with yellow coating (shaft))

Test Item(s)	Test Result(s)		
<b>A. For Normal Toys and Childcare Articles:</b>			
	<b>(1)</b>	<b>(2)</b>	<b>Limit</b>
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	0.68*	0.43*	0.1
Total (DEHP + DBP + BBP)	0.68*	0.43*	0.1
<b>B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):</b>			
	<b>(1)</b>	<b>(2)</b>	<b>Limit</b>
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
<b>A. For Normal Toys and Childcare Articles:</b>			
	<b>(3)</b>	<b>(4)</b>	<b>Limit</b>
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	1.18*	1.32*	0.1
Total (DEHP + DBP + BBP)	1.18*	1.32*	0.1
<b>B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):</b>			
	<b>(3)</b>	<b>(4)</b>	<b>Limit</b>
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1



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Test Item(s)	Test Result(s)		
<b>A. For Normal Toys and Childcare Articles:</b>			
	<b>(5)</b>	<b>(6)</b>	<b>Limit</b>
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	0.74*	0.68*	0.1
Total (DEHP + DBP + BBP)	0.74*	0.68*	0.1
<b>B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):</b>			
	<b>(5)</b>	<b>(6)</b>	<b>Limit</b>
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
<b>A. For Normal Toys and Childcare Articles:</b>			
	<b>(7)</b>	<b>(8)</b>	<b>Limit</b>
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
<b>B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):</b>			
	<b>(7)</b>	<b>(8)</b>	<b>Limit</b>
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1

Test Item(s)	Test Result(s)		
<b>A. For Normal Toys and Childcare Articles:</b>			
	<b>(9)</b>	<b>(10)</b>	<b>Limit</b>
DEHP Content % (w/w)	Not Detected	Not Detected	0.1
DBP Content % (w/w)	Not Detected	Not Detected	0.1
BBP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DEHP + DBP + BBP)	Not Detected	Not Detected	0.1
<b>B. For Toys and Childcare Articles (Which can be placed in Mouth by Children):</b>			
	<b>(9)</b>	<b>(10)</b>	<b>Limit</b>
DINP Content % (w/w)	Not Detected	Not Detected	0.1
DIDP Content % (w/w)	Not Detected	Not Detected	0.1
DNOP Content % (w/w)	Not Detected	Not Detected	0.1
Total (DINP + DIDP + DNOP)	Not Detected	Not Detected	0.1



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Remark:

- 1) \* = Failed item.
- 2) < = Less than.
- 3) % (w/w) = percent per weight.
- 4) --- = Not requested by the customer.
- 5) Detection limit for each individual phthalate is 0.005%.
- 6) The phthalates DEHP, DBP and BBP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticised material, in toys and childcare articles.  
Meanwhile the phthalates DINP, DIDP and DNOP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticised material, in toys and childcare articles which can be placed in mouth by children.

Note:

- DINP = Di-iso-nonyl phthalate (CAS No 28553-12-0 and 68515-48-0, Einecs No 249-079-5 and 271-090-9)  
DEHP = Di (2-ethylhexyl) phthalate (CAS No 117-81-7, Einecs No 204-211-0)  
DBP = Dibutyl phthalate (CAS No 84-74-2, Einecs No 201-557-4)  
DIDP = Di-iso-decyl phthalate (CAS No 26761-40-0, Einecs No 247-977-1)  
DNOP = Di-n-octyl phthalate (CAS No 117-84-0, Einecs No 204-214-7)  
BBP = Butyl benzyl phthalate (CAS No 85-68-7, Einecs No 201-622-7)



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Photo:



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This test document cannot be reproduced in any way, except in full context, without the prior approval in writing of the laboratory. The result of this test report is based on our received samples only.

Tested sample returned.

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\*\*\*\*\* End of report \*\*\*\*\*