



# 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. SC23832

Date: 02 Aug 2010

Joker (Far East) Ltd  
UNIT 501 ENERGY PLAZA,  
92 GRNVILLE ROAD,  
TST, HK

Report on (5) five pieces of (1) one assorted style of submitted samples with cardboard & blister packed said to be STARWARS R2D2 SLIMY 33841-33845.

Style / Item No. : 33841  
Manufacturing Date : G1910  
Labelled Age Group : "Not for children under 3 years (German)"  
Age Group Applied in Testing : Ages 3 & up  
Sample Received Date : 26 Jul 2010  
Testing Period : 26 Jul 2010 – 02 Aug 2010

Test Requested : For compliance with the followings:  
1) 1. EN 71 Part 1:2005 +A8:2009 – Mechanical and Physical Properties.  
2. EN 71 Part 2:2006 +A1:2007 – Flammability.  
3. EN 71 Part 3:1994 +A1:2000 – Migration of Certain Elements.  
2) Certain phthalates in Council Directive 76/769/EEC and 2005/84/EC.  
3) Cadmium (Cd) Content in the European Council Directive 91/338/EEC

Test Method : As specified in:  
1) 1. EN 71 Part 1:2005 +A8:2009.  
2. EN 71 Part 2:2006 +A1:2007.  
3. EN 71 Part 3:1994 +A1:2000.  
Heavy element analysis was performed by Inductively coupled plasma-atomic emission spectrometry.  
2) Extraction by ASTM D3421-75 and then analysed by GC-MS.  
3) With reference to EN 1122: 2001;

Results : Please refer to next pages.

Conclusion : The tested results of submitted samples were found to comply with the stated requirements of the followings:  
1) 1. EN 71 Part 1:2005 +A8:2009.  
2. EN 71 Part 2:2006 +A1:2007.  
3. EN 71 Part 3:1994 +A1:2000.  
2) Certain phthalates in Council Directive 76/769/EEC and 2005/84/EC.  
3) Cadmium (Cd) Content for the European Council Directive 91/338/EEC

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

  
Mr. KO Kwok-on, Andy / Technical Director



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Results:

European Standard - Safety of Toys

EN 71 Part 1:2005 +A8:2009 - Mechanical and Physical Properties

<u>Clause 4</u>	<u>General Requirements</u>	
Clause 4.1	Material .....	Pass
Clause 4.2	Assembly .....	N/A
Clause 4.3	Flexible plastic sheeting .....	N/A
Clause 4.4	Toy bags .....	N/A
Clause 4.5	Glass .....	N/A
Clause 4.6	Expanding materials .....	N/A
Clause 4.7	Edges .....	Pass
Clause 4.8	Points and metallic wires .....	Pass
Clause 4.9	Protruding parts .....	N/A
Clause 4.10	Parts moving against each other .....	N/A
Clause 4.11	Mouth actuated toys .....	N/A
Clause 4.12	Balloons .....	N/A
Clause 4.13	Cords of toy kites and other flying toys .....	N/A
Clause 4.14	Enclosures .....	N/A
Clause 4.15	Toys intended to bear the mass of a child .....	N/A
Clause 4.16	Heavy immobile toys .....	N/A
Clause 4.17	Projectiles .....	N/A
Clause 4.18	Aquatic toys .....	N/A
Clause 4.19	Percussion caps specifically designed for use in toys and toys using Percussion caps .....	N/A
Clause 4.20	Acoustics .....	N/A
Clause 4.21	Toys containing a non-electrical heat source .....	N/A
Clause 4.22	Small balls .....	N/A
Clause 4.23	Magnets .....	N/A
<u>Clause 5</u>	<u>Toys intended for children under 36 months</u>	
Clause 5.1	General requirements .....	N/A
Clause 5.2	Filling materials .....	N/A
Clause 5.3	Plastic sheeting .....	N/A
Clause 5.4	Cords on toys .....	N/A
Clause 5.5	Liquid filled toys .....	N/A
Clause 5.7	Glass and porcelain .....	N/A
Clause 5.6	Speed limitation of electrically driven toys .....	N/A
Clause 5.8	Shape and size of certain toys .....	N/A
Clause 5.9	Toys comprising monofilaments fibres .....	N/A
Clause 5.10	Small balls .....	N/A
Clause 5.11	Play figures .....	N/A
Clause 5.12	Hemispheric shaped toys .....	N/A
Clause 5.13	Suction cups .....	N/A
<u>Clause 6</u>	<u>Packaging</u> .....	N/A
<u>Clause 7</u>	<u>Warning and instructions for use ... (German Version)</u> .....	Pass



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Remarks:

- N/A = Not Applicable.

EN 71 Part 2:2006 +A1:2007 - Flammability

Clause 4.1	General	
	- Cellulose nitrate . . . . .	<u>Pass</u>
	- Surface flash on pile fabric (Test in accordance with BS4569: 1983) . . . . .	<u>N/A</u>
Clause 4.2	Toys to be worn on the head . . . . .	<u>N/A</u>
Clause 4.3	Toy disguise costumes and toys intended to be worn by a child in play . . . . .	<u>N/A</u>
Clause 4.4	Toys intended to be entered by a child . . . . .	<u>N/A</u>
Clause 4.5	Soft filled toys (animals and dolls, etc.) with a piled or textile surface . . . . .	<u>N/A</u>

Remark:

- N/A = Not Applicable.



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### EN 71 Part 3:1994 +A1:2000 - Migration of Certain Elements.

Details of analytical sample:

- (1) Blue coating
- (2) Silver coating
- (3) Gold coating
- (4) Black coating
- (5) Yellow coating
- (6) White plastic (robot body)
- (7) Transparent plastic (slimy case)
- (8) Blue soft plastic (slimy)
- (9) Grey plastic (robot head button)
- (10) Translucent white plastic (robot head)

Element	(1)	(2)	(3)	(4)	Limit
Soluble Antimony (Sb)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Arsenic (As)	< 5.0	< 5.0	< 5.0	< 5.0	25 mg/kg
Soluble Barium (Ba)	<10.0	<10.0	<10.0	44.1	1000 mg/kg
Soluble Cadmium (Cd)	< 6.0	< 6.0	< 6.0	< 6.0	75 mg/kg
Soluble Chromium (Cr)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Lead (Pb)	< 6.0	< 6.0	< 6.0	< 6.0	90 mg/kg
Soluble Mercury (Hg)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Selenium (Se)	<10.0	<10.0	<10.0	<10.0	500 mg/kg

Element	(5)	(6)	(7)	(8)	Limit
Soluble Antimony (Sb)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Arsenic (As)	< 5.0	< 5.0	< 5.0	< 5.0	25 mg/kg
Soluble Barium (Ba)	<10.0	<10.0	<10.0	<10.0	1000 mg/kg
Soluble Cadmium (Cd)	< 6.0	< 6.0	< 6.0	< 6.0	75 mg/kg
Soluble Chromium (Cr)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Lead (Pb)	< 6.0	< 6.0	< 6.0	< 6.0	90 mg/kg
Soluble Mercury (Hg)	< 6.0	< 6.0	< 6.0	< 6.0	60 mg/kg
Soluble Selenium (Se)	<10.0	<10.0	<10.0	<10.0	500 mg/kg

Element	(9)	(10)	Limit
Soluble Antimony (Sb)	< 6.0	< 6.0	60 mg/kg
Soluble Arsenic (As)	< 5.0	< 5.0	25 mg/kg
Soluble Barium (Ba)	<10.0	<10.0	1000 mg/kg
Soluble Cadmium (Cd)	< 6.0	< 6.0	75 mg/kg
Soluble Chromium (Cr)	< 6.0	< 6.0	60 mg/kg
Soluble Lead (Pb)	< 6.0	< 6.0	90 mg/kg
Soluble Mercury (Hg)	< 6.0	< 6.0	60 mg/kg
Soluble Selenium (Se)	<10.0	<10.0	500 mg/kg

#### Remarks:

- 1. <= less than
- 2. mg/kg = milligrams per kilogram.



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3. Results shown are adjusted analytical value.
4. The sample weight of samples (1), (2), (3), (4) and (5) used for analysis were 95mg, 56mg, 89mg, 46mg and 51mg respectively.
5. The sample weight of red coating was less than 10mg, according to standard, hence it was not tested.



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### 2) Certain phthalates in Council Directive 76/769/EEC and 2005/84/EC

Detailed analytical sample:

- (1) Blue coating + Gold coating + Black coating
- (2) Silver coating + Yellow coating + Red coating
- (3) Transparent plastic (slimy case) + Blue soft plastic (slimy)
- (4) White plastic (robot body) + Grey plastic (robot head button) + Translucent white plastic (robot head)

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)	0.030	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)	0.030	Not Detected	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)	0.009	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)	0.009	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)	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>(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

Remark:

- 1) <= Less than.
- 2) % (w/w) = percent per weight.
- 3) --- = Not requested by the customer.
- 4) Detection limit for each individual phthalate is 0.005%.
- 5) 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.



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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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### 3) European Council Directive 91/338/EEC for cadmium (Cd) Content.

Details of analytical samples:

- (1) Blue coating + Gold coating + Black coating
- (2) Silver coating + Yellow coating + Red coating
- (3) Transparent plastic (slimy case) + Blue soft plastic (slimy)
- (4) White plastic (robot body) + Grey plastic (robot head button) + Translucent white plastic (robot head)

<u>Elements</u>	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>Maximum permissible level</u>
Cadmium (Cd)	<5	<5	<5	<5	100 ppm

Remarks:

- 1. <= less than
- 2. ppm = mg/kg.

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.

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