

TEST REPORT

Applicant: Eastman Kodak
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Product Name : Black HD Dry Ink (HD3)
Style/Model # : KH2310800
Age Labeling : N/A
Age Grading : N/A
Supplier : Kodak
Sample received date : January 27, 2015
Date of testing ended : February 4, 2015

OVERALL CONCLUSION:

<u>Standard</u>	<u>Result</u>
1. Total Lead In Paints & Surface Coatings – 16 CFR 1303	1. Does Comply
2. Phthalate Content Section 108 – CPSIA of 2008	2. Does Comply
3. Migration of Certain Elements Category III – EN 71-3: 2013	3. Does Meet
4. Soluble Heavy Metals In Paints & Other Surface Coating Materials – ASTM F963-11	4. Does Comply



For and on behalf of
Intertek Products Group North America :



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TEST RESULTS:

1. 16 CFR 1303 - Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Requirement: The lead content shall not exceed 0.009 weight percent (90 ppm) of the dried paint film as required by 16 CFR 1303

Test Results:

Component Number	Result (ppm)	Limit (ppm)
1	<20	90

Component Number	Component Description
1	Black HD Dry Ink (HD3)

Conclusion: When tested as specified, the submitted sample(s) **does comply** with the lead in paints and surface coatings requirements according to 16 CFR 1303.

2. Consumer Product Safety Improvement Act of 2008 – Sec. 108 Phthalate Content

Test Method: CPSC-CH-C1001-09.3

Requirements:

Phthalates	Limits
DEHP (bis-2-ethylhexyl phthalate), DBP (dibutyl phthalate), BBP (benzyl butyl phthalate)	May not be present in toys and child care articles in concentrations higher than 0.1 percent.
DINP (di-isononyl phthalate), DIDP (di-isodecyl phthalate), DNOP (di-n-octyl phthalate)	In the interim, toys that may be placed in a child's mouth and child care articles may not contain these phthalates in concentrations higher than 0.1 percent.

Test Results:

Regulated Phthalates	RESULT (% (w/w))	Limit(% (w/w))
	1	
Dibutyl Phthalate (DBP)	<0.005	0.1
Butyl Benzyl Phthalate (BBP)	<0.005	0.1
Diethyl Hexyl Phthalate (DEHP)	<0.005	0.1
Di-(n-octyl) Phthalate (DnOP)	<0.005	0.1
Di-(iso-nonyl) Phthalate (DINP)	<0.005	0.1
Di-(iso-decyl) Phthalate (DIDP)	<0.005	0.1

Component Number	Component Description
1	Black HD Dry Ink (HD3)

Conclusion: The submitted toy and / or Childcare article(s) **does comply** with the limits for the Phthalates specified in the **Section 108 of the Consumer Product Safety Improvement Act of 2008**.

3. EN 71-3:2013 Migration of Certain elements (Category III)

- Reference EU Directive 2009/48/EC Annex II, section III, part 13

Test Method: EN 71-3: 2013

Category III - Scraped-off materials

- Solid material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking.
 - Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings
 - Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles
 - Paper and paper board
 - Textiles, whether natural or synthetic
 - Glass, ceramic, metallic materials
 - Other materials whether mass coloured or not (e.g. wood, fibre board, hard board, bone and leather)

Test Results:

Restricted Element	Results (mg/kg)	Limits (mg/kg)
	1	
Aluminum	<20	70000
Antimony	<5	560
Arsenic	<2.5	47
Barium	<5	18750
Boron	<5	15000
Cadmium	<5	17
Total Chromium	<0.005	460 [Cr (III)]
		0.2 [Cr (VI)]
Cobalt	<5	130
Copper	<5	7700
Lead	<2	160
Manganese	<2	15000
Mercury	<2	94
Nickel	<5	930
Selenium	<5	460
Strontium	<5	56000
Total Tin	<5	180000 (Tin)
	<5	12 (Organic Tin)
Zinc	<5	46000



Test Report No. : WOA00077955
Report Date : February 4, 2015

Component Number	Component Description
1	Black HD Dry Ink (HD3)

Remark:

= Test portion is between 10 mg to 100 mg and the quantities of the appropriate elements are calculated as if 100 mg of the test portion has been used.

Note: We do not currently have the capability to test migration of organic tin, chromium (III) and chromium (VI). Recommendations for further testing are based on the lowest limit values as applicable to chromium (III), chromium (VI) and organic tin.

Conclusion: The submitted sample(s) **does meet** the acceptable limits as specified in EN **71-3:2013**
Migration of Certain Elements.



4. ASTM F963-11 Soluble Heavy Metals in Paints and other Surface Coating Materials

Procedure: ASTM F963-11, Section 8.3.2

Test Results:

Restricted substances	Results (ppm)	Limit (ppm)
	1	
Soluble Antimony	<2	60
Soluble Arsenic	<2	25
Soluble Barium	<2	1000
Soluble Cadmium	<2	75
Soluble Chromium	<2	60
Soluble Lead	<2	90
Soluble Mercury	<2	60
Soluble Selenium	<2	500

= Test portion is between 10 mg to 100 mg and the quantities of the appropriate elements are calculated as if 100 mg of the test portion has been used.

Component Number	Component Description
1	Black HD Dry Ink (HD3)

Results above have been cross referenced from EN71-3 Heavy Metals results on page 4.

Conclusion: When tested as specified, the submitted sample **does comply** with the **soluble limits for heavy metals** according to **section 4.3.5.1 (2) of ASTM F963-11**.

The test results stated in this report relate only to the item(s) tested. This test report may not be reproduced except in full, without written approval of Intertek.

Tests identified with () have been subcontracted.*

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*If you need assistance in interpreting these results or if you have any questions,
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