

Product Technology Service

Report No.: NB2009090828

Test Report



Page 1 of 12

Testing institute : Product Technology Service (Ningbo) Co., Ltd.
6&7F, 59#, Huayu Road,
Yinzhou District, Ningbo 315192 P.R.China

Applicant :

Buyer : CHARLES LEONARD.INC

Test item(s) : Paint Brush Handles

Model No. : 73205 73210 73215 73220 73225 73230 73235 73240 73245 73250 73260
73265 73295 73290

PO No. : ZR9-1007, ZR9-1008

Sample Description : /

Material : /

Sample receive date : Sep.09, 2009
Completes date : Sep.11, 2009

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test Requested : As specified by client, to determine lead content in accessible substrate materials and phthalates content in the selected parts of the submitted sample(s) with reference to US Public Law 110-314(CPSIA: Consumer Product Safety Improvement Act of 2008)(H.R.4040).

Conclusion : Pass



The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

Product Technology Service (Ningbo) Co., Ltd.

6 & 7F Huayu Road, 59#
Yinzhou District
Ningbo 315192 P.R.China

<http://www.pts-lab.com>

Web: RC-15 R-124

Tel: 86-574-83036506
Fax: 86-574-83036508
P.R. 315192

E-mail: info@pts-lab.com

宁波中普检测技术服务有限公司

浙江省宁波市
鄞州中心区华裕路
59号6&7楼

<http://www.pts-lab.com>

电话: 86-574-83036506
传真: 86-574-83036508
邮编: 315192

邮箱: info@pts-lab.com

Test item(s)

No.	Name	Part No.	Part Name
1	Paint Brush Handles	1-1	Sky-blue penholder
		1-2	Dark blue penholder
		1-3	Red penholder
		1-4	White penholder
		1-5	Brown penholder
		1-6	Purple penholder
		1-7	Black penholder
		1-8	Green penholder
		1-9	Orange penholder
		1-10	Argent metal
		1-11*	Yellow penholder

Remark:

*= Required by the applicant,result of sample 1-11Yellow penholder is taken from report NB2009082741,Date:2009/09/04.

1. Lead content in accessible substrate materials

Test method : Acid digestion followed by Inductively Coupled Plasma Optical Emission Spectrometer

Tested item: 1-1 Sky-blue penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-2 Dark blue penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-3 Red penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-4 White penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-5 Brown penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

* = The requirements for Lead in substrate in children's products in summarized below.

Scope	Requirement	Effective date
Lead in substrate other than paint/similar surface coating material	≤600ppm	10 February 2009
	≤300ppm	14 August 2009
	≤100ppm	14 August 2011

Note:

- 1) ND=not detected
- 2) Method Detection Limit =10ppm
- 3) 600ppm=0.06%; 300ppm=0.03%; 100ppm=0.01%

Main test instruments used for this method:

Parameter	Instrument	Manufactory	Model / Type
Pb	ICP-OES	PerkinElmer	Optima 2100 DV

Test method : Acid digestion followed by Inductively Coupled Plasma Optical Emission Spectrometer

Tested item: 1-6 Purple penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-7 Black penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-8 Green penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-9 Orange penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

Tested item: 1-10 Argent metal				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	15	300	Pass

Tested item: 1-11 Yellow penholder				
Parameter:	Unit	Result	Requirement*	Conclusion
Lead (Pb)	ppm	ND	300	Pass

* = The requirements for Lead in substrate in children's products in summarized below.

Scope	Requirement	Effective date
Lead in substrate other than paint/similar surface coating material	≤600ppm	10 February 2009
	≤300ppm	14 August 2009
	≤100ppm	14 August 2011

Note:

- 4) ND=not detected
- 5) Method Detection Limit =10ppm
- 6) 600ppm=0.06%; 300ppm=0.03%;100ppm=0.01%

Main test instruments used for this method:

Parameter	Instrument	Manufactory	Model / Type
Pb	ICP-OES	PerkinElmer	Optima 2100 DV

2. Phthalates

Test method : With reference to EPA3540C. Analysis was performed by Gas Chromatography /Mass Spectrometer.

Following three phthalates intended for toys and childcare articles

Test item(s)	1-1	1-2	1-3	Requirement
Dibutyl phthalate (DBP)	ND	ND	ND	0.1%
Butyl benzyl phthalate (BBP)	ND	ND	ND	0.1%
Di-2-ethylhexyl phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	Pass	Pass	Pass	---

Following three phthalates intended for toys that can be placed in the mouth and childcare articles

Test item(s)	1-1	1-2	1-3	Requirement
Di-n-octyl phthalate (DNOP)	ND	ND	ND	0.1%
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	0.1%
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	Pass	Pass	Pass	---

Note:

- 1) %=percentage by weight
- 2) ND=not detected
- 3) Method Detection Limit for each of DBP, BBP, DEHP and DNOP=0.005%
- 4) Method Detection Limit for each of DINP and DIDP=0.02%
- 5) Effective Date = 10 February 2009

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (7890)-MS (5975C)

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6 & 7F, Huayu Road 59#
Yinzhou District
Ningbo 315192 P.R.China
<http://www.pts-lab.com>

Rev: TS-R112.01

Tel: 86-574-83036506
Fax: 86-574-83036508
P.R. 315192
E-mail: info@pts-lab.com

宁波中普检测技术服务有限公司

浙江省宁波市
鄞州中心区华裕路
59号6&7楼
<http://www.pts-lab.com>

电话: 86-574-83036506
传真: 86-574-83036508
邮编: 315192
邮箱: info@pts-lab.com

Test method : With reference to EPA3540C. Analysis was performed by Gas Chromatography /Mass Spectrometer.

Following three phthalates intended for toys and childcare articles

Test item(s)	1-4	1-5	1-6	Requirement
Dibutyl phthalate (DBP)	ND	ND	ND	0.1%
Butyl benzyl phthalate (BBP)	ND	ND	ND	0.1%
Di-2-ethylhexyl phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	Pass	Pass	Pass	---

Following three phthalates intended for toys that can be placed in the mouth and childcare articles

Test item(s)	1-4	1-5	1-6	Requirement
Di-n-octyl phthalate (DNOP)	ND	ND	ND	0.1%
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	0.1%
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	Pass	Pass	Pass	---

Note:

- 6) %=percentage by weight
- 7) ND=not detected
- 8) Method Detection Limit for each of DBP, BBP, DEHP and DNOP=0.005%
- 9) Method Detection Limit for each of DINP and DIDP=0.02%
- 10) Effective Date = 10 February 2009

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (7890)-MS (5975C)

Test method : With reference to EPA3540C. Analysis was performed by Gas Chromatography /Mass Spectrometer.

Following three phthalates intended for toys and childcare articles

Test item(s)	1-7	1-8	Requirement
Dibutyl phthalate (DBP)	ND	ND	0.1%
Butyl benzyl phthalate (BBP)	ND	ND	0.1%
Di-2-ethylhexyl phthalate (DEHP)	ND	ND	0.1%
Conclusion	Pass	Pass	---

Following three phthalates intended for toys that can be placed in the mouth and childcare articles

Test item(s)	1-7	1-8	Requirement
Di-n-octyl phthalate (DNOP)	ND	ND	0.1%
Di-iso-nonyl phthalate (DINP)	ND	ND	0.1%
Di-iso-decyl phthalate (DIDP)	ND	ND	0.1%
Conclusion	Pass	Pass	---

Note:

- 11) %=percentage by weight
- 12) ND=not detected
- 13) Method Detection Limit for each of DBP, BBP, DEHP and DNOP=0.005%
- 14) Method Detection Limit for each of DINP and DIDP=0.02%
- 15) Effective Date = 10 February 2009

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (7890)-MS (5975C)

Test method With reference to EPA3540C. Analysis was performed by Gas Chromatography /Mass Spectrometer.

Following three phthalates intended for toys and childcare articles

Test item(s)	1-9	1-11	Requirement
Dibutyl phthalate (DBP)	ND	ND	0.1%
Butyl benzyl phthalate (BBP)	ND	ND	0.1%
Di-2-ethylhexyl phthalate (DEHP)	ND	ND	0.1%
Conclusion	Pass	Pass	---

Following three phthalates intended for toys that can be placed in the mouth and childcare articles

Test item(s)	1-9	1-11	Requirement
Di-n-octyl phthalate (DNOP)	ND	ND	0.1%
Di-iso-nonyl phthalate (DINP)	ND	ND	0.1%
Di-iso-decyl phthalate (DIDP)	ND	ND	0.1%
Conclusion	Pass	Pass	---

Note

- 16) %=percentage by weight
- 17) ND=not detected
- 18) Method Detection Limit for each of DBP, BBP, DEHP and DNOP=0.005%
- 19) Method Detection Limit for each of DINP and DIDP=0.02%
- 20) Effective Date = 10 February 2009

Main test instruments used for this method:

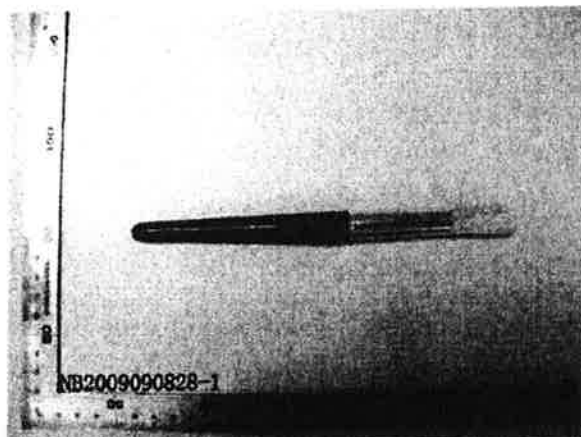
Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (7890)-MS (5975C)

Sample photo(s), see annex 1

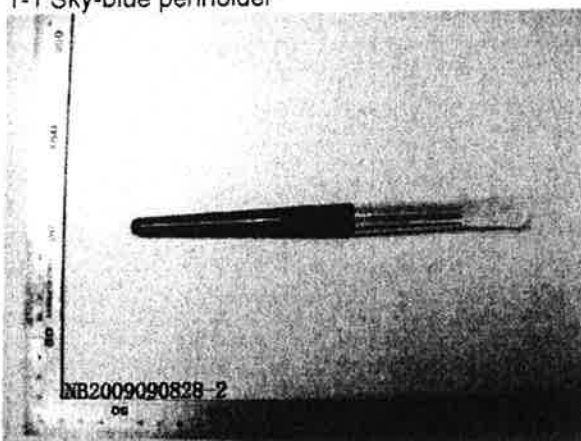
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ANNEX 1

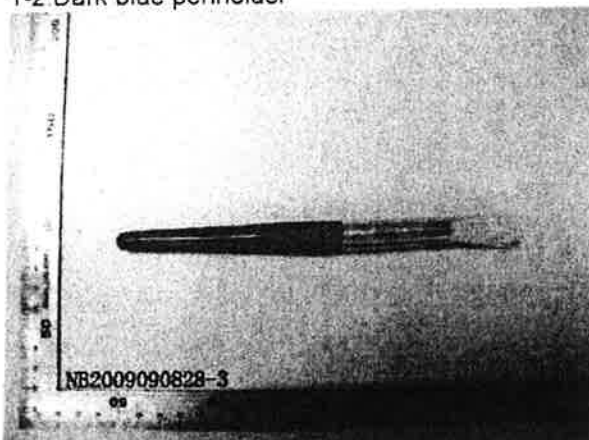
Sample photos. Consists of 4 pages



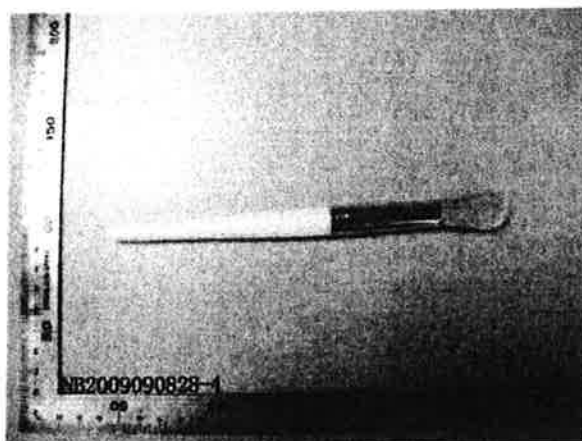
1-1 Sky-blue penholder



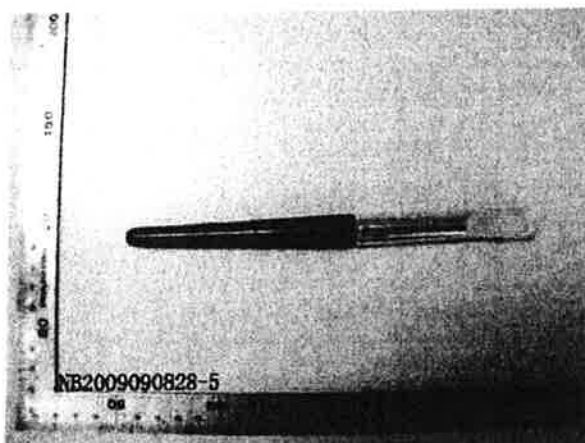
1-2 Dark blue penholder



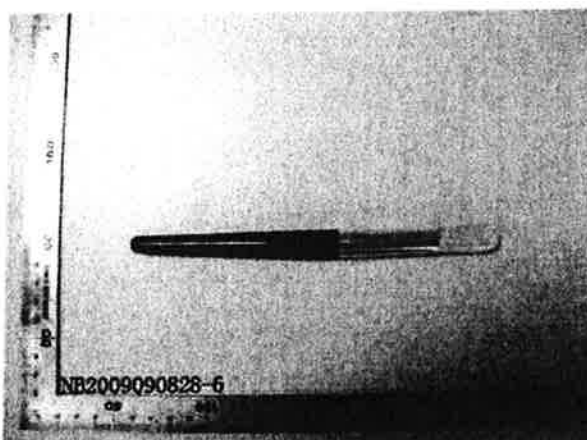
1-3 Red penholder



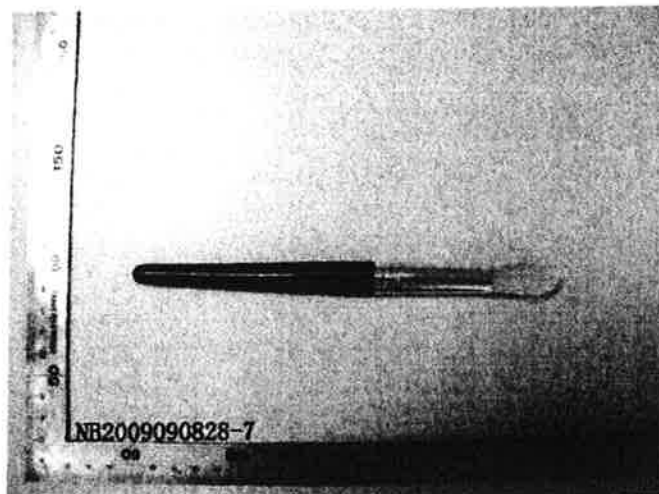
1-4 White penholder



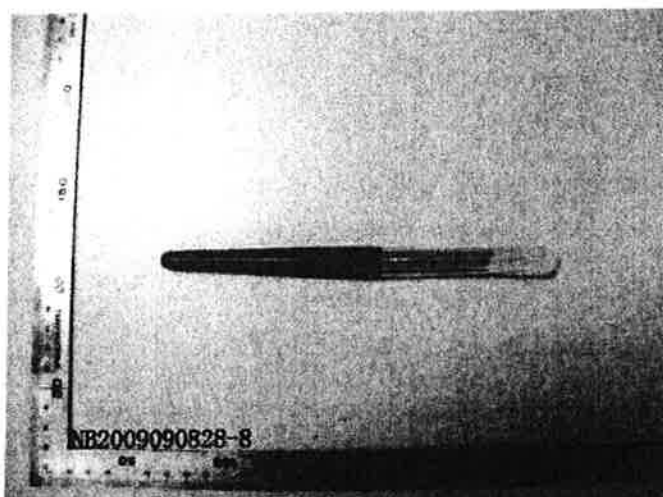
1-5: Brown penholder



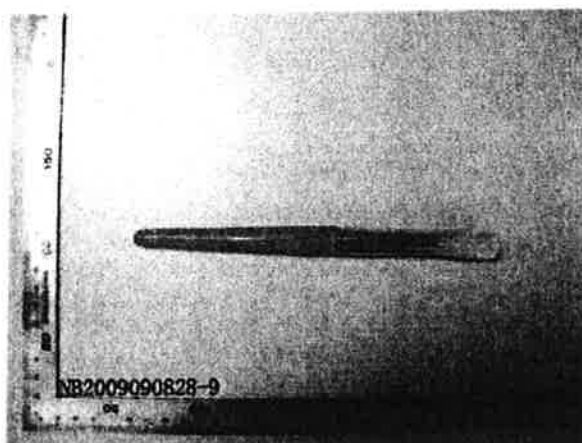
1-6: Purple penholder



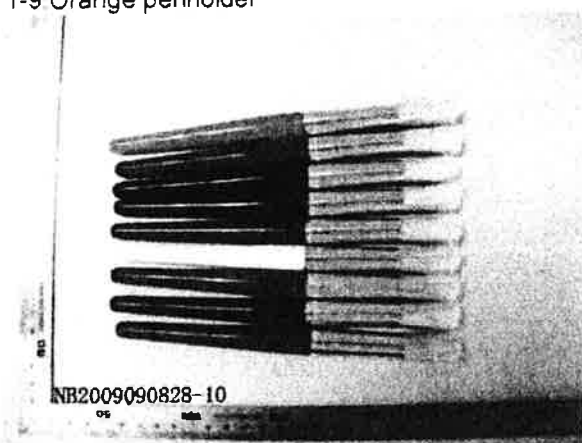
1-7 Black penholder



1-8 Green penholder



1-9 Orange penholder



1-10 Argent metal



1-11 Yellow penholder