

Test Report

No. SH8151303/CHEM

Date: Oct. 23, 2008

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Sample Name : 12 COLOR PENCIL LEAD
SGS Ref No. : SHT002810905
Manufacturer :
Labeled Age Grading : 1-100

Sample Receiving Date : Oct.20, 2008
Testing Period : Oct.20-23, 2008

Test Requested : As per client's request, to determine the phthalate contents in accordance with European Directive 2005/84/EC.

Test method : (1) With reference to EN 14372:2004. Analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS).

Test Results : Please refer to next pages

Conclusion : When tested as specified, the submitted samples comply with the phthalate requirement stated in European Directive 2005/84/EC.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Sandy Hao

Sandy Hao
Lab Manager

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Test results by chemical method:

Phthalates Content (Unit: %)

(1-1) For all toys and childcare articles

Test Item(s):		Method (refer to)	1	2	3	MDL	Limit
Dibutyl Phthalate	(DBP)	(1)	ND	ND	ND	0.003	-
Benzylbutyl Phthalate	(BBP)		ND	ND	ND	0.003	-
Bis-(2-ethylhexyl) Phthalate	(DEHP)		ND	ND	ND	0.003	-
Total (DBP + BBP + DEHP)	-		<0.01	<0.01	<0.01	-	0.1

Test Item(s):		Method (refer to)	4	5	6	MDL	Limit
Dibutyl Phthalate	(DBP)	(1)	ND	ND	ND	0.003	-
Benzylbutyl Phthalate	(BBP)		ND	ND	ND	0.003	-
Bis-(2-ethylhexyl) Phthalate	(DEHP)		ND	ND	ND	0.003	-
Total (DBP + BBP + DEHP)	-		<0.01	<0.01	<0.01	-	0.1

Test Item(s):		Method (refer to)	7	8	9	MDL	Limit
Dibutyl Phthalate	(DBP)	(1)	ND	ND	ND	0.003	-
Benzylbutyl Phthalate	(BBP)		ND	ND	ND	0.003	-
Bis-(2-ethylhexyl) Phthalate	(DEHP)		ND	ND	ND	0.003	-
Total (DBP + BBP + DEHP)	-		<0.01	<0.01	<0.01	-	0.1

Test Item(s):		Method (refer to)	10	11	12	MDL	Limit
Dibutyl Phthalate	(DBP)	(1)	ND	ND	ND	0.003	-
Benzylbutyl Phthalate	(BBP)		ND	ND	ND	0.003	-
Bis-(2-ethylhexyl) Phthalate	(DEHP)		ND	ND	ND	0.003	-
Total (DBP + BBP + DEHP)	-		<0.01	<0.01	<0.01	-	0.1

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(1-2) For toys and childcare articles that can be mouthed

Test Item(s):		Method (refer to)	1	2	3	MDL	Limit
Diisononyl Phthalate	(DINP)	(1)	ND	ND	ND	0.010	-
Di-n-octyl Phthalate	(DNOP)		ND	ND	ND	0.003	-
Diisodecyl Phthalate	(DIDP)		ND	ND	ND	0.010	-
Total (DINP + DNOP + DIDP)	-		<0.03	<0.03	<0.03	-	0.1

Test Item(s):		Method (refer to)	4	5	6	MDL	Limit
Diisononyl Phthalate	(DINP)	(1)	ND	ND	ND	0.010	-
Di-n-octyl Phthalate	(DNOP)		ND	ND	ND	0.003	-
Diisodecyl Phthalate	(DIDP)		ND	ND	ND	0.010	-
Total (DINP + DNOP + DIDP)	-		<0.03	<0.03	<0.03	-	0.1

Test Item(s):		Method (refer to)	7	8	9	MDL	Limit
Diisononyl Phthalate	(DINP)	(1)	ND	ND	ND	0.010	-
Di-n-octyl Phthalate	(DNOP)		ND	ND	ND	0.003	-
Diisodecyl Phthalate	(DIDP)		ND	ND	ND	0.010	-
Total (DINP + DNOP + DIDP)	-		<0.03	<0.03	<0.03	-	0.1

Test Item(s):		Method (refer to)	10	11	12	MDL	Limit
Diisononyl Phthalate	(DINP)	(1)	ND	ND	ND	0.010	-
Di-n-octyl Phthalate	(DNOP)		ND	ND	ND	0.003	-
Diisodecyl Phthalate	(DIDP)		ND	ND	ND	0.010	-
Total (DINP + DNOP + DIDP)	-		<0.03	<0.03	<0.03	-	0.1

Remark : (1-1) European Parliament adopted new phthalate directive 2005/84/EC; DBP, BBP and DEHP are totally banned for use in any toys or childcare articles where their concentration exceeds 0.1% by mass.
(1-2) European Parliament adopted new phthalate directive 2005/84/EC; DINP, DNOP, DIDP are totally banned for use in toys or childcare articles that can be mouthed where their concentration exceeds 0.1% by mass.

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