

Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 1 of 16

The following sample(s) was/were submitted and identified on behalf of the clients as : PAINT COATING

SGS Job No. : NBHL1803003311SD - NB
 Date of Sample Received : 20 Mar 2018
 Testing Period : 20 Mar 2018 - 09 Apr 2018
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
EN71-3:2013+A2:2017-Migration of certain elements(Category II:for liquid or sticky toy material)	PASS
Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content	PASS

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Iris Xiao

Iris Xiao

Approved Signatory



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 2 of 16

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB18-009952.001	Dark blue water-based paint
SN2	NGB18-009952.002	Yellow water-based paint
SN3	NGB18-009952.003	White water-based paint
SN4	NGB18-009952.004	Translucent water-based paint
SN5	NGB18-009952.006	Black water-based paint
SN6	NGB18-009952.007	Black nitrocellulose paint
SN7	NGB18-009952.008	Dark blue nitrocellulose paint
SN8	NGB18-009952.009	White nitrocellulose paint
SN9	NGB18-009952.010	Red nitrocellulose paint
SN10	NGB18-009952.011	Yellow nitrocellulose paint
SN11	NGB18-009952.012	Light yellow transparent nitrocellulose paint
SN12	NGB18-009952.013	Dark blue water-based paint+ Yellow water-based paint + White water-based paint
SN13	NGB18-009952.015	Black nitrocellulose paint + Dark blue nitrocellulose paint + White nitrocellulose paint
SN14	NGB18-009952.016	Red nitrocellulose paint + Yellow nitrocellulose paint + Light yellow transparent nitrocellulose paint
SN15	NGB18-009952.018	Red water-based paint
SN16	NGB18-009952.019	Translucent water-based paint + Red water-based paint + Black water-based paint

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN71-3:2013+A2:2017-Migration of certain elements(Category II:for liquid or sticky toy material)

Test Method : With reference to EN71-3:2013+A2:2017, analysis was performed by ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.
Soluble Chromium (VI) was analyzed by IC-ICP-MS.



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www.sgs.com

Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 3 of 16

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	105
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.2	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	006	007
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 4 of 16

Test Item(s)	Limit	Unit	MDL	004	006	007
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPhT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPhT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.2	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	008	009	010
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 5 of 16

Test Item(s)	Limit	Unit	MDL	008	009	010
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHt)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHt)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.2	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	011	012	018
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	321
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	88
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHt)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 6 of 16

Test Item(s)	Limit	Unit	MDL	011	012	018
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPhT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.2	mg/kg	-	ND	ND	ND

Notes :

(1) ^ means the Organic Tin specified in EN71-3:2013+A2:2017 and it is analyzed by GC-MS

Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	013	015	016
1. For all toys and childcare articles							
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND	ND	ND
Bis(2-ethylhexyl) Phthalate(DEHP)	117-81-7	-	%	0.003	ND	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	ND
2. For toys and childcare articles that can be mouthed							
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	-	%	0.010	ND	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	-	%	0.010	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND
Conclusion					PASS	PASS	PASS



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 7 of 16

Test Item(s)	CAS NO.	Limit	Unit	MDL	019
1. For all toys and childcare articles					
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND
Bis(2-ethylhexyl) Phthalate(DEHP)	117-81-7	-	%	0.003	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND
2. For toys and childcare articles that can be mouthed					
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND

Conclusion

PASS

Notes :

- (1) European Parliament adopted new phthalate Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC);
- (1-1) DBP, BBP and DEHP are totally banned for use in any toys on childcare articles where their concentration exceeds 0.1% by mass.
- (1-2) DINP, DNOP, DIDP are totally banned for use in toys and childcare articles that can be mouthed where their concentration exceeds 0.1% by mass.

Remark:

- (1) Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.
- (2) Results of samples 001~004, 006~013 and 015~016 are taken from report NGBHG1800995201. 001~004, 006~013 and 015~016, Date: 2018/03/26



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 8 of 16

Sample photo:





Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 10 of 16



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 12 of 16



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Test Report

No. NGBHG1800995203

Date: 24 Aug 2018

Page 16 of 16



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