

Test Report

No. SHATY1321822701

Date: 13 Nov 2013

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SWIMAVE INTERNATIONAL LIRNITED

1909 CLIFFORD CENTER 778-784 CHEUNG SHA WAN HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as : SWIMAVE STARTER RING SET

SGS Job No. : SHTY130900015731 - SH
 Buyer : GLOBAL
 Requested Age Grading : 0-18M
 Date of Sample Received : 07 Nov 2013
 Testing Period : 07 Nov 2013 - 13 Nov 2013
 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
European Council Directive 94/62/EC - Article 11	PASS
Short Chained Chlorinated Paraffin (SCCP)	See Results
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
Phthalates	See Results
Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012 and (EU) No 494/2011 - Cadmium (Cd)	PASS
DEHA and DINA	See Results

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Signed for and on behalf of
SGS-CSTC Ltd.



Serena Wang
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA13-218227.001	Transparent plastic film(Body)
2	SHA13-218227.002	Transparent plastic valve
3	SHA13-218227.003	Transparent soft plastic(Handle)
4	SHA13-218227.004	White plastic buckle
5	SHA13-218227.005	White plastic film(Inner)
6	SHA13-218227.006	Multi-color coating(Inner)(Purple style)
7	SHA13-218227.007	Multi-color coating(Inner)(Green style)
8	SHA13-218227.008	Blue plastic ball(Inner)
9	SHA13-218227.009	Pink plastic ball(Inner)
10	SHA13-218227.010	Black plastic bead(Inner ball)
11	SHA13-218227.011	Sky blue plastic(Hand pump)
12	SHA13-218227.012	Dark blue plastic(Hand pump)
13	SHA13-218227.014	Transparent plastic film(Body) + White plastic film(Inner)
14	SHA13-218227.015	Transparent plastic valve + Transparent soft plastic(Handle)
15	SHA13-218227.016	Blue plastic ball(Inner) + Pink plastic ball(Inner) + Black plastic bead(Inner ball)
16	SHA13-218227.017	Sky blue plastic(Hand pump) + Dark blue plastic(Hand pump) + White plastic buckle
17	SHA13-218227.018	Multi-color paper card(Safety guide)
18	SHA13-218227.019	Transparent plastic film w/ multi-coating(Bag)
19	SHA13-218227.020	Sky blue zipper fabric(On bag)
20	SHA13-218227.021	Sky blue plastic zipper teeth(On bag)
21	SHA13-218227.022	Silvery metal zipper head(On bag)
22	SHA13-218227.023	Silvery metal jump ring(On zipper head)
23	SHA13-218227.024	Silvery metal dangler(On zipper head)
24	SHA13-218227.025	Silvery metal stopper(On zipper teeth)
25	SHA13-218227.029	Black soft plastic ring(Inner of hand pump)
26	SHA13-218227.030	Black soft plastic ring(Inner of hand pump)((Receiving date: Nov.6, 2013)

Remarks :

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

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European Council Directive 94/62/EC - Article 11

Test Method : Sample digestion. Analysis of Cadmium, Lead, Mercury were performed by ICP-OES. Analysis of Hexavalent Chromium (Cr (VI)) was performed by UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>020</u>
Cadmium (Cd)	-	mg/kg	5	ND	ND	ND
Lead (Pb)	-	mg/kg	5	ND	ND	ND
Mercury (Hg)	-	mg/kg	5	ND	ND	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND	ND	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>022</u>	<u>023</u>
Cadmium (Cd)	-	mg/kg	5	ND	7	ND
Lead (Pb)	-	mg/kg	5	ND	32	ND
Mercury (Hg)	-	mg/kg	5	ND	ND	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND	ND	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND	39	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>	<u>025</u>
Cadmium (Cd)	-	mg/kg	5	ND	ND
Lead (Pb)	-	mg/kg	5	58	12
Mercury (Hg)	-	mg/kg	5	ND	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	58	12

Short Chained Chlorinated Paraffin (SCCP)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-ECD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Short Chained Chlorinated Paraffin (SCCP)	mg/kg	50	ND	ND	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Short Chained Chlorinated Paraffin (SCCP)	mg/kg	50	ND	ND	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Short Chained Chlorinated Paraffin (SCCP)	mg/kg	50	ND	ND	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Short Chained Chlorinated Paraffin (SCCP)	mg/kg	50	ND	ND	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>
Short Chained Chlorinated Paraffin (SCCP)	mg/kg	50	50431

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 ASTM D 3421-75, analysis was performed by GC/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>014</u>
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

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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>014</u>
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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
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

For toys and childcare articles that can be mouthed

Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND	ND	ND
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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>021</u>	<u>030</u>
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

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

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Test Item(s)	CAS NO.	Limit	Unit	MDL	019	021	030
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND

Conclusion **PASS** **PASS** **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.

(2) For sample 014~017:

The composite sampling method is based on the client's special request and is a modification from the testing standard.

Conclusions on pass/fail are based on the test results from the actual sampling of the received samples.

Phthalates

Test Method : In-house method-solvent extraction(SHTC- CHEM- SOP -225-T), analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	006	007	014
Dimethyl Phthalate (DMP)	mg/kg	30	ND	ND	ND
Diethyl Phthalate (DEP)	mg/kg	30	ND	ND	ND
Dinonyl Phthalate(DNP)	mg/kg	30	ND	ND	ND
Di-n-pentyl Phthalates (DnPP)	mg/kg	30	ND	ND	ND
Dicyclohexyl Phthalate(DCHP)	mg/kg	30	ND	ND	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>014</u>
Dipropyl Phthalate (DPrP)	mg/kg	30	ND	ND	ND
Diisobutyl Phthalate (DIBP)	mg/kg	30	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	mg/kg	30	ND	ND	ND
Diiso-octyl Phthalate(DiOP)	mg/kg	100	ND	ND	ND
Dibenzyl Phthalate(DBzP)	mg/kg	30	ND	ND	ND
Diphenyl Phthalate(DPhP)	mg/kg	30	ND	ND	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
Dimethyl Phthalate (DMP)	mg/kg	30	ND	ND	ND
Diethyl Phthalate (DEP)	mg/kg	30	ND	ND	ND
Dinonyl Phthalate(DNP)	mg/kg	30	ND	ND	ND
Di-n-pentyl Phthalates (DnPP)	mg/kg	30	ND	ND	ND
Dicyclohexyl Phthalate(DCHP)	mg/kg	30	ND	ND	ND
Dipropyl Phthalate (DPrP)	mg/kg	30	ND	ND	ND
Diisobutyl Phthalate (DIBP)	mg/kg	30	ND	ND	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
Di-n-hexyl phthalate (DnHP)	mg/kg	30	ND	ND	ND
Diiso-octyl Phthalate(DiOP)	mg/kg	100	ND	ND	ND
Dibenzyl Phthalate(DBzP)	mg/kg	30	ND	ND	ND
Diphenyl Phthalate(DPhP)	mg/kg	30	ND	ND	ND
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>021</u>	<u>030</u>
Dimethyl Phthalate (DMP)	mg/kg	30	ND	ND	ND
Diethyl Phthalate (DEP)	mg/kg	30	ND	ND	ND
Dinonyl Phthalate(DNP)	mg/kg	30	ND	ND	ND
Di-n-pentyl Phthalates (DnPP)	mg/kg	30	ND	ND	ND
Dicyclohexyl Phthalate(DCHP)	mg/kg	30	ND	ND	ND
Dipropyl Phthalate (DPrP)	mg/kg	30	ND	ND	ND
Diisobutyl Phthalate (DIBP)	mg/kg	30	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	mg/kg	30	ND	ND	ND
Diiso-octyl Phthalate(DiOP)	mg/kg	100	ND	ND	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>021</u>	<u>030</u>
Dibenzyl Phthalate(DBzP)	mg/kg	30	ND	ND	ND
Diphenyl Phthalate(DPhP)	mg/kg	30	ND	ND	ND

Notes :

For sample 014~017:

The composite sampling method is based on the client's special request and is a modification from the testing standard.

Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012 and (EU) No 494/2011 - Cadmium (Cd)

Test Method : With reference to EN 1122:2001 Method B. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>	<u>015</u>	<u>016</u>
Cadmium (Cd)	0.01	%	0.0005	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>019</u>	<u>021</u>
Cadmium (Cd)	0.01	%	0.0005	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>
Cadmium (Cd)	0.01	%	0.0005	ND

Notes :

For sample 014~017:

The composite sampling method is based on the client's special request and is a modification from the testing standard.

Conclusions on pass/fail are based on the test results from the actual sampling of the received samples.

Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012 and (EU) No 494/2011 - Cadmium (Cd)

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Test Method : With reference to EN 1122:2001 Method B. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>
Cadmium (Cd)	0.1	%	0.0005	ND	ND

DEHA and DINA

Test Method : In-house method(SHTC-CHEM-SOP-104-T), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>
Di(2-ethylhexyl) adipate (DEHA)	%	0.005	ND
Diisononyl Adipate (DINA)	%	0.025	ND

Notes :

For sample 014~017:

The composite sampling method is based on the client's special request and is a modification from the testing standard.

Remark:

- 1.Results of sample 001~012,014~025 are taken from report SHATY1317497901-001~012,014~025.
- 2.Results of sample 029 are taken from report SHATY1319923201-029.

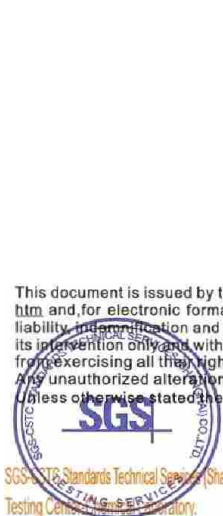
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Sample photo:



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