

TEST REPORT

Applicant: SILVERLIT TOYS MANUFACTORY LTD
RM 1102 EAST OCEAN CTR
98 GRANVILLE RD
TST
KLN HK

Number: HKGH0250849303

Date: Sep 16, 2019

Submitted sample said to be :
Item Name : **ROBO DACKEL JR.**
Item No. : **88578**
Quantity : 6 sets
Labelled Age Group : 5+
Packaging Provided : Yes (artwork)

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(2) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 (Placed on the market after 7 July 2020) - Phthalates content	Pass
(3) Phthalate content	See details enclosed

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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(1) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (%, w/w)			Limit (%, w/w)
	(1)	(2/3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(8/9)			
Dibutyl phthalate (DBP)	<0.01			--
Diethyl hexyl phthalate (DEHP)	<0.01			--
Benzyl butyl phthalate (BBP)	<0.01			--
Sum of DBP,DEHP & BBP	<0.01			0.1
Diisononyl phthalate (DINP)	<0.01			--
Di-n-octyl phthalate (DnOP)	<0.01			--
Diisodecyl phthalate (DIDP)	<0.01			--
Sum of DINP,DnOP & DIDP	<0.01			0.1

Three Phthalate content :

Compound	Result (%, w/w)			Limit (%, w/w)
	(10/11/12)	(13/14/15)	(16/17/18)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(19/20/21)	(22/23/24)	(25/26/27)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(28/29)	(30/31)	(32)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1



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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested Components:

- (1) Coatings on plastic (body of dog, button of ball).
- (2) Black plastic (nose, ears, tail of dog).
- (3) Translucent grey plastic (body of dog).
- (4) Translucent plastic (chest, eyes of dog).
- (5) Dull translucent plastic (body, button of ball).
- (6) Shiny black plastic (chest, wheels of dog).
- (7) Deep grey plastic (pin of ears, on/off switch, body of dog).
- (8) White plastic (body of dog).
- (9) Dull black plastic (wheels of dog).
- (10) Black plastic with grey printing (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) White plastic with grey printing (wire covering) (internal).
- (13) Green plastic with grey printing (wire covering) (internal).
- (14) Orange plastic (wire covering) (internal).
- (15) Brown plastic (wire covering) (internal).
- (16) Light purple plastic (wire covering) (internal).
- (17) Black plastic (sensor) (internal).
- (18) Translucent/ black plastic (keypad) (internal).
- (19) Transparent red plastic (LED) (internal).
- (20) Shiny translucent plastic (LED) (internal).
- (21) Black plastic (nut holder, inner body) (internal).
- (22) Black plastic sheet with white printing (jacket of capacitor) (internal).
- (23) Black plastic (base of capacitor) (internal).
- (24) Dull black plastic sheet (heat shrink tube) (internal).
- (25) Translucent white plastic (gears) (internal).
- (26) Transparent plastic sheet (film of speaker) (internal).
- (27) Green plastic with black glue (case of speaker) (internal).
- (28) Green PCB (PCB of speaker) (internal).
- (29) Brown PCB (PCB of on/off switch) (internal).
- (30) Deep green printed brown PCB (PCB of ball) (internal).
- (31) Green printed brown PCB (PCB of dog) (internal).
- (32) Plastic part of motor (internal).

Date sample received : Sep 10, 2019

Test Period : Sep 10, 2019 to Sep 13, 2019



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(2) Phthalate Content Test

Test Method : Solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(8/9)			
Dibutyl phthalate (DBP)	<0.01			--
Diethyl hexyl phthalate (DEHP)	<0.01			--
Benzyl butyl phthalate (BBP)	<0.01			--
Diisobutyl phthalate (DIBP)	<0.01			--
Sum of DBP, DEHP, BBP & DIBP	<0.01			0.1
Diisononyl phthalate (DINP)	<0.01			--
Di-n-octyl phthalate (DnOP)	<0.01			--
Diisodecyl phthalate (DIDP)	<0.01			--
Sum of DINP, DnOP & DIDP	<0.01			0.1

Four Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(10/11/12)	(13/14/15)	(16/17/18)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(19/20/21)	(22/23/24)	(25/26/27)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1



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Compound	Result (% , w/w)			Limit (% , w/w)
	(28/29)	(30/31)	(32)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Coatings on plastic (body of dog, button of ball).
- (2) Black plastic (nose, ears, tail of dog).
- (3) Translucent grey plastic (body of dog).
- (4) Translucent plastic (chest, eyes of dog).
- (5) Dull translucent plastic (body, button of ball).
- (6) Shiny black plastic (chest, wheels of dog).
- (7) Deep grey plastic (pin of ears, on/off switch, body of dog).
- (8) White plastic (body of dog).
- (9) Dull black plastic (wheels of dog).
- (10) Black plastic with grey printing (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) White plastic with grey printing (wire covering) (internal).
- (13) Green plastic with grey printing (wire covering) (internal).
- (14) Orange plastic (wire covering) (internal).
- (15) Brown plastic (wire covering) (internal).
- (16) Light purple plastic (wire covering) (internal).
- (17) Black plastic (sensor) (internal).
- (18) Translucent/ black plastic (keypad) (internal).
- (19) Transparent red plastic (LED) (internal).
- (20) Shiny translucent plastic (LED) (internal).
- (21) Black plastic (nut holder, inner body) (internal).
- (22) Black plastic sheet with white printing (jacket of capacitor) (internal).
- (23) Black plastic (base of capacitor) (internal).
- (24) Dull black plastic sheet (heat shrink tube) (internal).
- (25) Translucent white plastic (gears) (internal).
- (26) Transparent plastic sheet (film of speaker) (internal).
- (27) Green plastic with black glue (case of speaker) (internal).
- (28) Green PCB (PCB of speaker) (internal).
- (29) Brown PCB (PCB of on/off switch) (internal).
- (30) Deep green printed brown PCB (PCB of ball) (internal).
- (31) Green printed brown PCB (PCB of dog) (internal).
- (32) Plastic part of motor (internal).

Date sample received : Sep 10, 2019

Test Period : Sep 10, 2019 to Sep 13, 2019



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(3) Phthalate Content Test

Test Method : Solvent extraction, followed by Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis.

Compound	Result (% w/w)		
	(1)	(2/3/4)	(5/6/7)
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	<0.01
Dipentyl phthalate (DPP)	<0.01	<0.01	<0.01
Diisopentylphthalate (DIPP)	<0.01	<0.01	<0.01
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	<0.01	<0.01	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01	<0.01	<0.01
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01



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Compound	Result (% w/w)		
	(8/9)	(10/11/12)	(13/14/15)
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01
Disodecyl phthalate (DIDP)	<0.01	<0.01	<0.01
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	<0.01
Dipentyl phthalate (DPP)	<0.01	<0.01	<0.01
Diisopentylphthalate (DIPP)	<0.01	<0.01	<0.01
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	<0.01	<0.01	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01	<0.01	<0.01
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01



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Compound	Result (% w/w)		
	(16/17/18)	(19/20/21)	(22/23/24)
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01
Disodecyl phthalate (DIDP)	<0.01	<0.01	<0.01
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	<0.01
Dipentyl phthalate (DPP)	<0.01	<0.01	<0.01
Diisopentylphthalate (DIPP)	<0.01	<0.01	<0.01
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	<0.01	<0.01	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01	<0.01	<0.01
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01



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Compound	Result (% w/w)		
	(25/26/27)	(28/29)	(30/31)
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01
Disodecyl phthalate (DIDP)	<0.01	<0.01	<0.01
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	<0.01
Dipentyl phthalate (DPP)	<0.01	<0.01	<0.01
Diisopentylphthalate (DIPP)	<0.01	<0.01	<0.01
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	<0.01	<0.01	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01	<0.01	<0.01
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01



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Compound	Result (% w/w)
	(32)
Dibutyl phthalate (DBP)	<0.01
Diethyl hexyl phthalate (DEHP)	<0.01
Benzyl butyl phthalate (BBP)	<0.01
Diisononyl phthalate (DINP)	<0.01
Di-n-octyl phthalate (DnOP)	<0.01
Diisodecyl phthalate (DIDP)	<0.01
Di-n-hexyl phthalate (DNHP)	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01
Diisobutyl phthalate (DIBP)	<0.01
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01
Dipentyl phthalate (DPP)	<0.01
Diisopentylphthalate (DIPP)	<0.01
N-pentyl-isopentylphthalate (PIPP)	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01
Dicyclohexyl phthalate (DCHP)	<0.01



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Tested Components:

- (1) Coatings on plastic (body of dog, button of ball).
- (2) Black plastic (nose, ears, tail of dog).
- (3) Translucent grey plastic (body of dog).
- (4) Translucent plastic (chest, eyes of dog).
- (5) Dull translucent plastic (body, button of ball).
- (6) Shiny black plastic (chest, wheels of dog).
- (7) Deep grey plastic (pin of ears, on/off switch, body of dog).
- (8) White plastic (body of dog).
- (9) Dull black plastic (wheels of dog).
- (10) Black plastic with grey printing (wire covering) (internal).
- (11) Red plastic (wire covering) (internal).
- (12) White plastic with grey printing (wire covering) (internal).
- (13) Green plastic with grey printing (wire covering) (internal).
- (14) Orange plastic (wire covering) (internal).
- (15) Brown plastic (wire covering) (internal).
- (16) Light purple plastic (wire covering) (internal).
- (17) Black plastic (sensor) (internal).
- (18) Translucent/ black plastic (keypad) (internal).
- (19) Transparent red plastic (LED) (internal).
- (20) Shiny translucent plastic (LED) (internal).
- (21) Black plastic (nut holder, inner body) (internal).
- (22) Black plastic sheet with white printing (jacket of capacitor) (internal).
- (23) Black plastic (base of capacitor) (internal).
- (24) Dull black plastic sheet (heat shrink tube) (internal).
- (25) Translucent white plastic (gears) (internal).
- (26) Transparent plastic sheet (film of speaker) (internal).
- (27) Green plastic with black glue (case of speaker) (internal).
- (28) Green PCB (PCB of speaker) (internal).
- (29) Brown PCB (PCB of on/off switch) (internal).
- (30) Deep green printed brown PCB (PCB of ball) (internal).
- (31) Green printed brown PCB (PCB of dog) (internal).
- (32) Plastic part of motor (internal).

Date sample received : Sep 10, 2019

Test Period : Sep 10, 2019 to Sep 13, 2019



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End of report

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