



Test Report

Number: SZHH0109204002

Applicant: DONGGUAN LIYANG TOYS LTD.
Floor 3, Building 2, Daxingwei Industry
Xianxi, Wusha, Changan Town,
Dongguan City, Guangdong Province

Date: Feb 27, 2017

Attn: 陈效

Sample Description:

Sixty-nine (69) piece of submitted sample said to be :

Item Name : Luxe.
Item No. : BL-10480, BL-10485, BL-12220, BL-12221, BL-12222, BL-10180, BL-10181, BL-10382, BL-23942, BL-23940, BL-33950, BL-05261, BL-05020, BL-42900, BL-42923, BL-30523, BL-41902, BL-41900, BL-67605, BL-41710, BL-41712, BL-05021, BL-10800, BL-10805, BL-33980, BL-39850, BL-73012.

Reference No. : BL-73012 BL-73022 bl-33980 BL-39851 BL-73110
BL-73111 BL-35380 BL-35381 ,BL-39850, BL33950, BL-67600, BL-67605 BL-62900 BL-62902, BL-41711, BL-41712 BL-41710, BL-42702
BL-42900 BL-42902BL-42923 BL-30510 BL-30512
BL-30523 BL-41900 BL-41923 BL-12240 BL-12241 BL-93220
BL-93221 BL-93228 BL-42700 BL-42723 BL-12242, BL-10580 BL-10800
BL-10805 BL-05260 BL-05261 BL-05060
BL-05020 BL-05021.

Labelled Age Group : Not specified.

Applicant Specified Age : Adult.

Grading for Testing
Packaging Provided by Applicant : No.

Additional Material and Wet Paint Provided : No.

Date Sample Received : Sep 13, 2016&Feb 22,2017.

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.- Hardlines

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Attention is drawn to the terms and conditions printed overleaf.



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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	Meet requirement

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Tests Conducted

1 (I) SVHC Testing Results

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

<u>Chemical Substance</u>	<u>Results % (w/w)θ</u>	
	<u>Whole product</u>	
	<u>(A1)to(A10)</u>	
All tested SVHCs in Chemical list	ND	

<u>Chemical Substance</u>	<u>Results % (w/w)θ</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(B1),(B2),(B3),(C1),(C2),(C3),(D1),(D2),(D3),(E1),(E2),(E3)</u>	<u>(B),(C),(D),(E)</u>
All tested SVHCs in Chemical list	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)θ</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(F1),(F2),(F3),(G1),(G2),(G3),(H1),(H2),(H3)</u>	<u>(F),(G),(H)</u>
All tested SVHCs in Chemical list	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)θ</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(I1),(I2),(I3),(J1),(J2),(J3),(K1),(K2),(K3)</u>	<u>(I),(J),(K)</u>
All tested SVHCs in Chemical list	ND	ND



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Tests Conducted

<u>Chemical Substance</u>	<u>Results % (w/w)^θ</u>			
	<u>Tested groups</u>			<u>Whole product</u>
	<u>(L1)</u>	<u>(L2)</u>	<u>(L3)</u>	<u>(L)</u>
Bis (2-Ethylhexyl) Phthalate (DEHP)	0.06	ND	ND	0.05
Other tested SVHCs in Chemical list	ND	ND	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(M1),(M2),(M3)</u>	<u>(M)</u>
All tested SVHCs in Chemical list	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(O1),(O2),(O3)</u>	<u>(O)</u>
All tested SVHCs in Chemical list	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)^θ</u>	
	<u>Tested groups</u>	<u>Whole product</u>
	<u>(S1),(S2),(S3)</u>	<u>(S)</u>
All tested SVHCs in Chemical list	ND	ND

<u>Chemical Substance</u>	<u>Results % (w/w)^θ</u>			
	<u>Tested groups</u>			<u>Whole product</u>
	<u>(T1)</u>	<u>(T2)</u>	<u>(T3)</u>	<u>(T)</u>
Bis (2-Ethylhexyl) Phthalate (DEHP)	0.165	ND	ND	0.08
Other tested SVHCs in Chemical list	ND	ND	ND	ND





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Tests Conducted

Chemical Substance	Results % (w/w) ^θ			
	Tested groups			Whole product
	(U1)	(U2)	(U3)	(U)
Bis (2-Ethylhexyl) Phthalate (DEHP)	0.06	ND	ND	ND
Other tested SVHCs in Chemical list	ND	ND	ND	ND

SVHC = Substance of very high concern

ND = Not detected

Reporting limit = 0.050%

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

θ = = Single result for each test component/group

SVHC Chemical list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
2	Diarsenic Pentaoxide Δ	1303-28-2	86	Pentacosaf fluorotridecanoic acid	72629-94-8
3	Diarsenic Trioxide Δ	1327-53-3	87	Tricosaf fluorododecanoic acid	307-55-1
4	Lead Hydrogen Arsenate Δ	7784-40-9	88	Henicosaf fluoroundecanoic acid	2058-94-8
5	Triethyl Arsenate Δ	15606-95-8	89	Heptacosaf fluorotetradecanoic acid	376-06-7
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3



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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7 13149-00-3 14166-21-3
8	Anthracene	120-12-7	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--
10	Hexabromocyclodecane (HBCDD) and All Major Diastereoisomers Identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	95	Methoxyacetic acid	625-45-6
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	96	N,N-dimethylformamide	68-12-2
13	Dibutyl Phthalate (DBP)	84-74-2	97	Dibutyltin dichloride (DBTC) Δ	683-18-1
14	Benzyl Butyl Phthalate (BBP)	85-68-7	98	Lead monoxide (Lead oxide) Δ	1317-36-8
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	99	Orange lead (Lead tetroxide) Δ	1314-41-6
16	Lead Chromate Δ	7758-97-6	100	Lead bis(tetrafluoroborate) Δ	13814-96-5
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	102	Lead titanium trioxideΔ	12060-00-3
19	Tris (2-Chloroethyl) Phosphate	115-96-8	103	Lead titanium zirconium oxideΔ	12626-81-2
20	2,4-Dinitrotoluene	121-14-2	104	Silicic acid, lead salt Δ	11120-22-2
21	Diisobutyl Phthalate (DIBP)	84-69-5	105	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-dopedΔ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8
22	Coal Tar Pitch, High Temperature	65996-93-2	106	1-bromopropane (n-propyl bromide)	106-94-5
23	Anthracene Oil	90640-80-5	107	Methyloxirane (Propylene oxide)	75-56-9
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	109	Diisopentylphthalate (DIPP)	605-50-5
26	Anthracene Oil, Anthracene-low	90640-82-7	110	N-pentyl-isopentylphthalate	776297-69-9
27	Anthracene Oil, Anthracene Paste	90640-81-6	111	1,2-diethoxyethane	629-14-1
28	Acrylamide	79-06-1	112	Acetic acid, lead salt, basicΔ	51404-69-4
29	Boric Acid Δ	10043-35-3, 11113-50-1	113	Lead oxide sulfateΔ	12036-76-9
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	115	Dioxobis(stearato)trileadΔ	12578-12-0
32	Sodium Chromate Δ	7775-11-3	116	Fatty acids, C16-18, lead saltsΔ	91031-62-8
33	Potassium Chromate Δ	7789-00-6	117	Lead cyanamidateΔ	20837-86-9
34	Ammonium Dichromate Δ	7789-09-5	118	Lead dinitrateΔ	10099-74-8
35	Potassium Dichromate Δ	7778-50-9	119	Pentalead tetraoxide sulphateΔ	12065-90-6
36	Trichloroethylene	79-01-6	120	Pyrochlore, antimony lead yellowΔ	8012-00-8
37	2-Methoxyethanol	109-86-4	121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7
38	2-Ethoxyethanol	110-80-5	122	TetraethylleadΔ	78-00-2
39	Cobalt Sulphate Δ	10124-43-3	123	Tetralead trioxide sulphateΔ	12202-17-4
40	Cobalt Dinitrate Δ	10141-05-6	124	Trilead dioxide phosphonateΔ	12141-20-7
41	Cobalt Carbonate Δ	513-79-1	125	Furan	110-00-9
42	Cobalt Diacetate Δ	71-48-7	126	Diethyl sulphate	64-67-5
43	Chromium Trioxide Δ	1333-82-0	127	Dimethyl sulphate	77-78-1
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
45	Strontium ChromateΔ	7789-06-2	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	130	4,4'-methylenedi-o-toluidine	838-88-0
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	131	4,4'-oxydianiline and its salts	101-80-4
48	Hydrazine	7803-57-8 302-01-2	132	4-aminoazobenzene	60-09-3
49	1-methyl-2-pyrrolidone	872-50-4	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
50	1,2,3-trichloropropane	96-18-4	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	135	Biphenyl-4-ylamine	92-67-1
52	Lead dipicrate Δ	6477-64-1	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
53	Lead styphnate Δ	15245-44-0	137	o-toluidine	95-53-4
54	Lead azide; Lead diazide Δ	13424-46-9	138	N-methylacetamide	79-16-3
55	Phenolphthalein	77-09-8	139	Cadmium Δ	7440-43-9
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	140	Cadmium oxide Δ	1306-19-0
57	N,N-dimethylacetamide (DMAC)	127-19-5	141	Dipentyl phthalate (DPP)	131-18-0
58	Trilead diarsenate Δ	3687-31-8	142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--
59	Calcium arsenate Δ	7778-44-1	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
60	Arsenic acid Δ	7778-39-4	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
61	Bis(2-methoxyethyl) ether	111-96-6	145	Cadmium sulphide Δ	1306-23-6
62	1,2-Dichloroethane	107-06-2	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
64	2-Methoxyaniline; o-Anisidine	90-04-0	148	Dihexyl phthalate (DnHP)	84-75-3
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	150	Lead di(acetate) Δ	301-04-2
67	Pentazinc chromate octahydroxide Δ	49663-84-5	151	Trixylyl phosphate	25155-23-1
68	Potassium hydroxyoctaoxidizincate di-chromate Δ	11103-86-9	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
69	Dichromium tris(chromate) Δ	24613-89-6	153	Cadmium chloride Δ	10108-64-2
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	154	Sodium perborate; perboric acid, sodium salt Δ	--
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	155	Sodium peroxometaborate Δ	7632-04-4

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	157	2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7
74	Diboron trioxide Δ	1303-86-2	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
75	Formamide	75-12-7	159	Cadmium fluoride Δ	7790-79-6
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	160	Cadmium sulphate Δ	10124-36-4; 31119-53-6
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	15571-58-1; 27107-89-7
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	117933-89-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	164	Nitrobenzene	98-95-3
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	167	1,3-propanesultone	1120-71-4
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
--	--	--	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

(II) Description of Tested groups:

- (A1)to(A10),(B1),(C1),(D1),(E1),(F1),(G1),(H1),(I1),(J1),(K1),(L1),(M1),(O1),(S1),(T1),(U1): Plastic material.
- (B2),(C2),(D2),(E2),(F2),(G2),(H2),(I2),(J2),(K2): Magnetic & Plastic material.
- (L2),(M2),(O2),(S2),(T2),(U2): Magnetic material.
- (B3),(C3),(D3),(E3),(F3),(G3),(H3),(I3),(J3),(K3),(L3),(M3),(O3),(S3),(T3),(U3): Metal material.



Tests Conducted

Notes:

Substances of very high concern (SVHC) are classified as:
Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)

Persistent, bioaccumulative and toxic chemicals (PBT)

Very persistent and very bioaccumulative chemicals (vPvB)

Other similar substances such as endocrine disrupters

If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

- Identification of the registrant and the substance
- Classification and labelling of the substance
- Description of use of the substance and the article
- Registration number, if available
- Tonnage range

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

End of report

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