

TEST REPORT

REPORT NUMBER : TURT170128426

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BUYER TOYS

SAMPLE DESCRIPTION :

Sample 1: One sample of Wtoy sweeper set
Sample 2: One sample of Banco da Lavoro workbench

DATE IN : 28 June, 2017 (12:14)

DATE OUT : 05 July, 2017

MODEL NO: 121

NOTE : Sample 2 test results were taken from report number TURT160113401 dated on 30 June, 2016 by the request of the applicant.

TEST	Sample 1	Sample 2
TOXIC ELEMENTS ANALYSIS	P	X
DETECTION OF AMİNES DERİVED FROM AZOCOLOURANTS AND AZODYES	P	X
TOTAL PHTHALATE CONTENT	P	X
DETERMINATION OF CERTAIN FLAME RETARDANTS	P	X
DETECTION OF AMİNES IN COLOURANTS	P	X
DETERMINATION OF CADMIUM CONTENT	X	P
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)	X	P

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE

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170128426

Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 1

1-Multicolor sticker

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	0,125 ppm	PASS	560
Arsenic (As)	Not Detected	0,125 ppm	PASS	47
Barium (Ba)	2.8	0,125 ppm	PASS	18750
Cadmium (Cd)	Not Detected	0,125 ppm	PASS	17
Chromium (III)	Not Detected	0,125 ppm	PASS	460
Chromium (VI)	Not Detected	0,125 ppm	PASS	0.2
Lead (Pb)	Not Detected	0,125 ppm	PASS	160
Mercury (Hg)	Not Detected	0,125 ppm	PASS	94
Selenium (Se)	Not Detected	0,125 ppm	PASS	460
Aluminium (Al)	45.6	0,125 ppm	PASS	70000
Boron (B)	Not Detected	0,125 ppm	PASS	15000
Cobalt (Co)	Not Detected	0,125 ppm	PASS	130
Copper (Cu)	Not Detected	0,125 ppm	PASS	7700
Manganese (Mn)	5.3	0,125 ppm	PASS	15000
Nickel (Ni)	Not Detected	0,125 ppm	PASS	930
Strontium (Sr)	24.6	0,125 ppm	PASS	56000
Tin (Sn)	Not Detected	0,125 ppm	PASS	180000
Organic tin	Not Detected	0,125 ppm	PASS	12
Zinc (Zn)	1.8	0,125 ppm	PASS	46000

ppm (Part per million) =mg / kg
 < =Less Than
 ND =Not Detected

Note: Only selected part was performed by the request of the applicant.

Test Method	Result	Requirements
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Detection of Amines Derived From Azocolourants and Azodyes

Test Method : BS EN 14362 – 1 : 2012 for Textile Material

Detection of Amines Derived From Azocolourants and Azodyes

Sample 1

1- Blue checked textile part (with extraction)

<30 ppm

FORBIDDEN AMINE	CAS NO	1	RESULT
4-AMINOBIHENYL	92-67-1	N	
BENZIDINE	92-87-5	N	
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N	
2-NAPHTHYLAMINE	91-59-8	N	
*O-AMINOAZOTOLUENE	97-56-3	N	
*2-AMINO-4-NITROTOLUENE	99-55-8	N	
P-CHLOROANILINE	106-47-8	N	
2,4-DIAMINOANISOLE	615-05-4	N	
4,4'-DIAMINOBIHENYLMETHANE	101-77-9	N	
3,3'-DICHLOBENZIDINE	91-94-1	N	
3,3'-DIMETHOXYBENZIDINE	119-90-4	N	
3,3'-DIMETHYLBENZIDINE	119-93-7	N	
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	838-88-0	N	
P-CRESIDINE	120-71-8	N	
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N	
4,4'-OXYDIANILINE	101-80-4	N	
4,4'-THIODIANILINE	139-65-1	N	
O-TOLUIDINE	95-53-4	N	
2,4-TOLUYLENDIAMINE	95-80-7	N	
2,4,5-TRIMETHYLANILINE	137-17-7	N	
O-ANISIDINE	90-04-0	N	
**P-AMINOAZOBENZENE	60-09-3	N	
2,4 XYLIDINE	95-68-1	N	
2,6 XYLIDINE	87-62-7	N	

NOTE:

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.
- 2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
- 3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
- 4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC
- 5) According to the official method EN 14362-1:2012, if 4-Aminodiphenyl or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.

< =	Less Than
N=	Not Detected
Requirement=	30 ppm
ppm(part per million)=	mg/ kg
Detection Limit =	5 ppm

Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

EN14372 :2004 Method By Gas Chromatographic- Mass Spectrometric (GC- MS) Analysis : 2004

Sample 1

1-Multicolor sticker	
	RESULT (%, w/w)
DIBUTYL PHTHALATE (DBP)	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND
BENZYL BUTYL PHTHALATE (BBP)	ND
SUM OF THREE PHTHALATES	ND
LIMIT (MAX.)	TOTAL 0,1% (1000 ppm)
	RESULT (%, w/w)
DI-ISO-NONYL PHTHALATE (DINP)	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND
SUM OF THREE PHTHALATES	ND
LIMIT (MAX.)	TOTAL 0,1% (1000 ppm)

ppm (part per million) =mg / kg
 Detection Limit = DINP, DIDP: 100 ppm, Other phthalates: 10 ppm
 < =Less Than
 * =EXCEEDED LIMIT
 ND =Not Detected

Note: Only selected part was performed by the request of the applicant.
 (Estimated Total uncertainty=± 5 %)

Test Method	Result	Requirements
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(*)Determination of Certain Flame Retardants

INTERTEK IHTM AL.2.405 refer to ISO 17881-2:2016

Sample 1

1-Blue checked textile part

FLAME RETARDANTS	CAS No	RESULTS (ppm)	REQUIREMENT
Tris(2-chloroethyl) phosphate	TCEP	115-96-8	ND
Tris(2-chloro-1-methylethyl) phosphate	TCPP	13674-84-5	ND
Tris 2-chloro-1-(chloromethyl)ethyl phosphate	TDCP	13674-87-8	ND

ppm (part per million) = mg/kg
Detection Limit =1 ppm
ND = Not Detected

(Estimated Total Uncertainty = Plastic:±14%; Textile: ±12%)

Test Method	Result	Requirements
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Colourants

Test Standard : EN71 Part 10 and 11 : 2005

Sample 1

1-White/blue checked textile part

Compounds	Result in mg/kg (ppm)	Limit in mg/kg ppm
Disperse Blue 1	ND	10 (max)
Disperse Blue 3	ND	10 (max)
Disperse Blue 106	ND	10 (max)
Disperse Blue 124	ND	10 (max)
Disperse Yellow 3	ND	10 (max)
Disperse Orange 3	ND	10 (max)
Disperse Orange 37/76	ND	10 (max)
Disperse Red 1	ND	10 (max)
Solvent Yellow 1	ND	10 (max)
Solvent Yellow 2	ND	10 (max)
Solvent Yellow 3	ND	10 (max)
Basic Red 9	ND	10 (max)
Basic Violet 1	ND	10 (max)
Basic Violet 3	ND	10 (max)
Acid Red 26	ND	10 (max)
Acid Violet 49	ND	10 (max)

Detection Limit : 0.02 ppm
 ND : Not Detected
 ppm(part per of million) : mg/kg
 Estimates Total Uncertainty: ±14%

Test Method	Result	Requirements
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Determination of Cadmium Content

BS EN 1122 : 2001 (Method B) and IHTM AL.2.004 : 2011 microwave digestion and ICP-OES Determination

Sample 2

	RESULT	
1-Composite sample of navy ,yellow,shiny plastic part of table,red plastic part of table	<5 ppm	
2- Composite sample of yellow,grey,blue plastic part	<5 ppm	
3-Composite sample of orange,green plastic part,white plastic connection part	<5 ppm	100 ppm (0.01%)
4- Composite sample of multicolour sticker	<5 ppm	

ppm (part per million) =mg / kg Detection Limit =5 ppm < =Less Than
% =Percentage based on dry weight of sample

REMARK As per Cadmium Content Requirement in Annex XVII item 23 of the REACH Regulation (EC) No:1907/2006 (Formerly Known as Directive 91/338/EEC), Acid Digestion Method was used Total Cadmium Content was determined by ICP-OES

Estimated Total Uncertainty=(±4%)

Test Method	Result	Requirements
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Polycyclic Aromatic Hydrocarbons (PAH)

INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01

Sample 2

1-Composite sample of navy,yellow shiny plastic part of table,red plastic part of table

Category 2 (TOYS)

	Result	Category 2 (TOYS) Requirement
BENZO(A)PYRENE	Not Detected	<0.2
BENZO(E)PYRENE	Not Detected	<0.2
BENZ(A)ANTHRACENE	Not Detected	<0.2
BENZO(B)FLUORANTHENE	Not Detected	<0.2
BENZO(J)FLUORANTHENE	Not Detected	<0.2
BENZO(K)FLUORANTHENE	Not Detected	<0.2
CHRYSENE	Not Detected	<0.2
DIBENZO(A,H)ANTHRACENE	Not Detected	<0.2
BENZO(GHI)PERYLENE	Not Detected	<0.2
INDENO(1,2,3-CD)PYRENE	Not Detected	<0.2
ACENAPHTHYLENE	Not Detected	<5 sum
ACENAPHTHENE	Not Detected	
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
PYRENE	Not Detected	
ANTHRACENE	Not Detected	
FLUORANTHENE	Not Detected	
NAPHTHALENE	Not Detected	
SUM (18 PAH mg/kg):	Not Detected	<5

ppm (part per million) =mg / kg
 Detection Limit = 0.2 ppm

Estimated Total Uncertainty=(±3%)

Test Method	Result	Requirements
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Polycyclic Aromatic Hydrocarbons (PAH)

INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01

Sample 2

2-Composite sample of yellow, grey, blue plastic part

Category 2 (TOYS)

	Result	Category 2 (TOYS) Requirement
BENZO(A)PYRENE	Not Detected	<0.2
BENZO(E)PYRENE	Not Detected	<0.2
BENZ(A)ANTHRACENE	Not Detected	<0.2
BENZO(B)FLUORANTHENE	Not Detected	<0.2
BENZO(J)FLUORANTHENE	Not Detected	<0.2
BENZO(K)FLUORANTHENE	Not Detected	<0.2
CHRYSENE	Not Detected	<0.2
DIBENZO(A,H)ANTHRACENE	Not Detected	<0.2
BENZO(GHI)PERYLENE	Not Detected	<0.2
INDENO(1,2,3-CD)PYRENE	Not Detected	<0.2
ACENAPHTHYLENE	Not Detected	<5 sum
ACENAPHTHENE	Not Detected	
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
PYRENE	Not Detected	
ANTHRACENE	Not Detected	
FLUORANTHENE	Not Detected	
NAPHTHALENE	Not Detected	
SUM (18 PAH mg/kg):	Not Detected	<5

ppm (part per million) =mg / kg
 Detection Limit = 0.2 ppm

Estimated Total Uncertainty=(±3%)

Test Method	Result	Requirements
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Polycyclic Aromatic Hydrocarbons (PAH)

INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01

Sample 2

3-Composite sample of orange,green plastic part,white plastic connection part

Category 2 (TOYS)

	Result	Category 2 (TOYS) Requirement
BENZO(A)PYRENE	Not Detected	<0.2
BENZO(E)PYRENE	Not Detected	<0.2
BENZ(A)ANTHRACENE	Not Detected	<0.2
BENZO(B)FLUORANTHENE	Not Detected	<0.2
BENZO(J)FLUORANTHENE	Not Detected	<0.2
BENZO(K)FLUORANTHENE	Not Detected	<0.2
CHRYSENE	Not Detected	<0.2
DIBENZO(A,H)ANTHRACENE	Not Detected	<0.2
BENZO(GHI)PERYLENE	Not Detected	<0.2
INDENO(1,2,3-CD)PYRENE	Not Detected	<0.2
ACENAPHTHYLENE	Not Detected	<5 sum
ACENAPHTHENE	Not Detected	
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
PYRENE	Not Detected	
ANTHRACENE	Not Detected	
FLUORANTHENE	Not Detected	
NAPHTHALENE	Not Detected	
SUM (18 PAH mg/kg):	Not Detected	<5

ppm (part per million) =mg / kg
 Detection Limit = 0.2 ppm

Estimated Total Uncertainty=(±3%)

Test Method	Result	Requirements
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Sample 1



Sample 2



END OF TEST REPORT