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TEST REPORT

APPLICANT	:	OOLY, LLC
ADDRESS	:	3923 Oceanic Drive, Suite 100 Oceanside, CA 92056
SAMPLE DESCRIPTION	:	Modern Trio Dual Tip Metallic Markers - Set of 3
ITEM NO.	:	130-066
BUYER	:	OOLY, LLC
COUNTRY OF ORIGIN	:	Taiwan
COUNTRY OF DESTINATION	:	USA, Canada, Europe and Asia
AGE REQUESTED ON APPLICATION FORM	:	Not suitable for ages 6 and under
LABELED AGE GRADE	:	6+
AGE GRADE APPLIED IN TESTING	:	Over 6 Years
SAMPLE RECEIVED DATE	:	30-Jul-2019
SAMPLE RESUBMISSION DATE	:	08-Aug-2019
TURN AROUND TIME	:	30-Jul-2019 to 13-Aug-2019



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The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT	
Physical and Mechanical Hazards	CPSC Regulations	Pass	
Flammability Test	CPSC Regulations-1500.3(c)(6)(vi)	Pass	
Total Lead Content in Paint / Surface Coating	US 16 CFR 1303	Pass	
Phthalates Content	CPSC 16 CFR part 1307	Pass	
Total Lead Content in Paint / Surface Coating	US CPSIA, Section 101	Pass	
Total Lead Content in Substrate	US CPSIA, Section 101	Pass	
Phthalates Content	US CPSIA, Section 108	Pass	
Total Lead Content	US California Proposition 65	Pass	
Phthalates Content	US California Proposition 65	Pass	
TPCH - Toxics in Packaging Clearinghouse	US TPCH Legislation	Pass	
(formerly CONEG)		1 035	
Mechanical and Physical Properties	EN71 Part 1:2014+A1:2018	Pass	
Labeling Requirement	Directive 2009/48/EC	See Test Result	
Flammability of Toys	EN71 Part 2:2011+A1:2014	Pass	
Migration of Certain Elements	EN71 Part 3:2013+A3:2018, Directive (EU)	Pass	
	2018/725.	F 855	
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass	
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass	
Phthalates Content	REACH Annex XVII, Entry 51 & 52, (EU)	Pass	
	2018/2005	Pass	
Packaging and Packaging Waste	Directive 94/62/EC	Pass	

Eurofins (Shanghai) contact information

Customer service: <u>OlivaLiu@eurofins.com</u>/021-36202801 Sales specialist: <u>MariaJohnson@eurofins.com</u>/858-5687175/858-3549036 Sales specialist: <u>MartyImler@eurofins.com</u>/858-568-7175/858-243-2464

************ FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ************

Signed for and on behalf of Eurofins Product Testing Service (Shanghai) Co., Ltd

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Joyce Liu Lab Manager

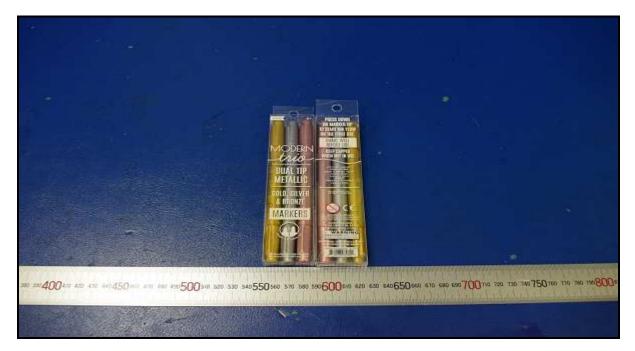
Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to <u>info.sh@eurofins.com</u> and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to <u>chinacomplaint@eurofins.com</u> and referring to this report.

Eurofins Product Testing Service (Shanghai) Co., Ltd ^{Item Numbers 105,1313,233} No.395 West Jiangchang Road, Jing'an District, Shanghai, China



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SAMPLE PHOTO



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TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Number No. 335 West Jiangchang Road, Jing'an District, Shanghai, China



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COMPONENT LIST

Component No.	Component
1	Brown coating on plastic
2	Grey coating on plastic
3	Dark brown coating on plastic
4	Golden ink
5	Grey ink
6	Pink ink
7	Golden plastic
8	Grey plastic
9	Pink plastic
10	White plastic pen tip
11	Felt pen tip
12	Multi-color coating on plastic (packaging box)
13	Transparent soft plastic excluding coating (packaging box)
14	Transparent plastic with glue (tape)

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Number: 105395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Physical and Mechanical Hazards

Test Request: The Mechanical Hazards Requirements of 16 CFR 1500, after Use and Abuse Tests.

Description	Result	
	As Received & Normal Use (1500.50)	
The use and abuse tests conducted are:	Impact Test (1500.53(b))	
	Torque Test (1500.53(e))	
	Tension Test (1500.53(f))	
16 CFR 1500.47 &1500.86(a)(6) – Sound Pressure Level produced by	N/A	
toy cap	N/A	
16 CFR 1501 – Small Parts	N/A	
16 CFR 1500.48 – Sharp Points	Р	
16 CFR 1500.49 – Sharp Edges	N/A	
16 CFR 1510 – Rattles	N/A	
16 CFR 1511 – Pacifier	N/A	

Remark: P – Pass

NA - Not Applicable

Flammability Test

Test Request:

As per U.S. code of federal regulations title 16 CFR 1500.3(c)(6)(vi) for flammable solid, tested by the method described in 16 CFR 1500.44.

Sample	Limit	Result	
Modern Trio Dual Tip Metallic Markers - Set of 3	0.1 inch/second	Pass	

Total Lead Content in Paint / Surface Coating

Test Request:Total lead content as specified in US 16 CFR 1303Test Method:CPSC-CH-E1003-09.1
The sample was acid digested, and total lead content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result
	Unit	Luun	IVIDE	1+2+3
Total Lead(Pb)	mg/kg	90	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Number 05.395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.3

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
rested item(s)	CAS NO.	Om			1+2+3	4+5+6	7+8+9	10
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate(DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Total Lead Content In Paint and Other Similar Surface Coatings

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Tested Item(s)	Unit Limit		MDL	Result		
rested item(s)		Linnit	WDL	1+2+3		
Total Lead	mg/kg	90	10	ND		

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



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TEST RESULT

Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1002-08.3

The sample was acid digested, and total lead content was determined by ICP-OES.

Tested Item(s)	l Item(s) Unit L		MDL	Result				
rested item(s)	Unit	Limit	WDL	4+5+6	7+8+9	10		
Total Lead(Pb)	mg/kg	100	10	18	ND	ND		

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



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TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 108

Test Method: CPSC-CH-C1001-09.3

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
rested item(s)	CAS NO.	Onit	Luur	WIDE	1+2+3	4+5+6		
For toys and childcare articles								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND		
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND		
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND		
Additional requirements for toys ar	nd childcare articl	es, whic	h can be	e placed i	n the mouth by child	dren		
Diisononyl phthalate (DINP)	68515-48-0	%	0.1	0.005	ND	ND		
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND		
Di-iso-decylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND		

Tested Item(s)	CAS No. U		Limit	MDL	Result			
rested item(s)	CAS NO.	Onit	LIIIII		7+8+9	10		
For toys and childcare articles								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND		
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND		
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND		
Additional requirements for toys ar	d childcare articl	es, whic	h can be	e placed i	n the mouth by child	dren		
Diisononyl phthalate (DINP)	68515-48-0	%	0.1	0.005	ND	ND		
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND		
Di-iso-decylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND		

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Numbers, 105/395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Total Lead Content

Test Request: Test Method: Total lead content as specified in US California Proposition 65 EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996

Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

1+2+3		ested Item(s) Unit Limit	Limit	MDL	Result
	rested item(s)		Liiiii		1+2+3
	Total Lead(Pb)	mg/kg	90	10	ND

Tested Item(s)	Unit	Limit	MDL		Result			
Tested Item(s)	Unit			4+5+6	7+8+9	10		
Total Lead(Pb)	mg/kg	100	10	18	ND	ND		

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

Phthalates Content

Test Request:Phthalates Content as specified in US California Proposition 65Test Method:EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result				
rested item(s)	CAS NO.				1+2+3	4+5+6	7+8+9	10	
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND	
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND	
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND	
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND	
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND	

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Numbers, 76,395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

TPCH - Toxics in Packaging Clearinghouse (formerly CONEG)

 Test Request:
 Total Lead, Cadmium, Mercury and Chromium content as specified in TPCH legislation.

 Test Method:
 EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996.

 Acid digestion/microwaye digestion method was used, analysis of total Lead, Cadmium

Acid digestion/ microwave digestion method was used, analysis of total Lead, Cadmium, Mercury and Chromium was performed by ICP-OES. Chromium VI determination was performed by UV-Vis Spectrophotometer.

Tested Item(s)	Unit	Limit	MDL	Result				
rested item(s)	Unit			12	13	14		
Total Lead (Pb)	mg/kg	-	5	ND	ND	ND		
Total Cadmium (Cd)	mg/kg	-	5	ND	ND	ND		
Total Chromium VI (Cr VI)	mg/kg	-	5	ND	ND	ND		
Total Mercury (Hg)	mg/kg	-	5	ND	ND	ND		
Total (Pb+Cd+Hg+Cr VI)	mg/kg	100	-	ND	ND	ND		

Remark:

mg/kg = milligram per kilogram MDL = method detection limit ND = Not detected, less than MDL "-" = Not Regulated

The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.



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TEST RESULT

Mechanical and Physical Properties

Test Request: As specified in European Standard on Safety of Toys EN71 Part 1:2014+A1:2018

Section	Description	Result
4	General requirements	•
4.1	Material cleanliness (by visual assessment)	P
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	Р
4.8	Points and Metallic Wires	Р
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	•
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	i
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Ratiles	N/A
4.20.2.7	Squeeze toys	N/A
4.20.2.8	Pull-along or push toys	N/A
4.20.2.9	Percussion toys	N/A
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	N/A

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TEST RESULT

Section	Description	Result
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
4.27.1	Géneral	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	IN/A
7.1	General	Р
7.2	Toys not intended for children under 36 months	P
7.3	Latex Balloons	F N/A
7.4	Aquatic toys	N/A N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A N/A
		N/A N/A
7.7 7.8	Projectiles toys Imitation protective masks and helmets	N/A N/A
7.9		N/A N/A
	Toy kites	
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A N/A
	Toys intended to be attached to or strung across a cradle, cot, or perambulator	
7.11 7.12	Toys intended to be strung across a cradle, cot, or perambulator	N/A N/A
	Liquid-filled teethers	
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A

Ltem Number No. 395 West Jiangchang Road, Jing'an District, Shanghai, China

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TEST RESULT

Section	Description	Result
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

Remark:

P – Pass

NA - Not Applicable

Labeling Requirement

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC – Safety of toys

Labeling Content	Observation Result	Location	Conclusion	
Washing/Cleaning Instruction	Not Applicable	-	-	
CE Mark	Present, Correct form, CE marking (height = 5 mm)	Packaging	Pass	
Importer's Name & Address	Not Present	-	See Remark	
Manufacturer's Name & Address	Not Present	-	See Remark	
Product ID	Present	Packaging	Pass	

Remark:

According to TSD 2009/48/EC, manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

Flammability of Toys

Test Request: As specified in European Standard on Safety of Toys EN71 Part 2:2011+A1:2014

Section	Description	Result
4	Requirements	
4.1	General Requirements	Р
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child.	N/A
4.5	Soft-filled toys (animals and dolls, etc) (Sample was not tested if its maximum dimension is 150mm or less.)	N/A

Remark:

P – Pass

NA – Not Applicable

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Numbers, NO.395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Migration of Certain Elements

Test Request:

Migration of certain elements as specified in Part III of Annex II to Toy Safety Directive 2009/48/EC and its amendment Directive (EU) 2018/725.

Test Method:

Extractable Organic Tin –With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by GC-MS. General elements – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by

ICP-MS.

Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A3:2018, analysis was performed by HPLC-ICP-MS / IC-UV/VIS.

Test Item(s):				Result						
Test tient(s).	Unit	2	3	4	6	8	9	10	11*	
Category Type		111	111	11	11	===	111	111	111	
Extractable Lead (Pb)	mg/kg	ND	ND	0.3	ND	ND	ND	ND	ND	
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Arsenic (As)	mg/kg	ND	ND	ND	0.1	ND	ND	ND	ND	
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Aluminum (Al)	mg/kg	ND	ND	911	436	ND	ND	ND	ND	
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Organic Tin#1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	
Extractable Chromium#2	mg/kg	ND	ND	0.203	0.208	ND	ND	ND	ND	
Extractable Chromium (III) (Cr III)	mg/kg	-	-	ND	ND	-	-	-	-	
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	ND	ND	-	-	-	-	

Remarks:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

As per client's request, only the appointed materials have been tested.

* The test result was calculated as if 100 mg of test portion had been used and the sample weight of test portion is less than 100 mg.

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Number No. 395 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL	
Category Type				I	Ü.		111	
Extractable Lead (Pb)	mg/kg	2	1	0.5	0.2	23	10	
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10	
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5	
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50	
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1	
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10	
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10	
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50	
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10	
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50	
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50	
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50	
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50	
Extractable Aluminum (Al)	mg/kg	5625	50	1406	50	70000	50	
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10	
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50	
Extractable Organic Tin ^{#1}	mg/kg	0.9	0.2	0.2	0.2	12	0.2	
Extractable Chromium ^{#2}	mg/kg	-	0.02	-	0.005	-	0.02	
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10	
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.053	0.02	

Category I: dry, brittle, powder-like or pliable toy material Category II: liquid or sticky toy material Category III: scrapped-off toy material "-" = Not Regulated

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd Item Number No.335 West Jiangchang Road, Jing'an District, Shanghai, China



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TEST RESULT

Total Cadmium Content

Test Request:

Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

	Unit	Limit	MDL	Result
Tested Item(s)	Unit	LIIIII	WIDL	1+2+3
Total Cadmium(Cd)	%	0.1	0.0005	ND

Tested Item(s)	Unit	Limit	MDL		Result	
Tested item(s)	Unit	Linin	WIDL	4+5+6	7+8+9	10
Total Cadmium(Cd)	%	0.01	0.0005	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request:Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326
amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.Test Method:Solvent extraction and quantification by gas chromatography-mass selective detection

d: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement.

Tested Item(s)	CAS No.	Unit Limit		MDL		Result			
	CAS NO.	Onic	Luur		1+2	4+5	7+8	9+10	
For rubber or plastic of toys or child use articles, will direct contact with skin and mouth.									
Benzo(a)anthracene	56-55-3	mg/kg	0.5	0.2	ND	ND	ND	ND	
Chrysene	218-01-9	mg/kg	0.5	0.2	ND	ND	ND	ND	
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.2	ND	ND	ND	ND	
Benzo(j)fluoranthene	205-82-3	mg/kg	0.5	0.2	ND	ND	ND	ND	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.2	ND	ND	ND	ND	
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.2	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.5	0.2	ND	ND	ND	ND	
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.2	ND	ND	ND	ND	

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

Eurofins Product Testing Service (Shanghai) Co., Ltd ^{Item Number} 105,395,395 105,395,395 Shanghai, China



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TEST RESULT

Phthalates Content

Test Request:Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No
1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
rested item(s)	CAS NO.		Luur		1+2+3	4+5+6
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	-	0.005	ND	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
rested item(s)	CAS NO.		LIIIII		7+8+9	10
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	-	0.005	ND	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



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TEST RESULT

Packaging and Packaging Waste

Test Request: Total Lead, Cadmium, Mercury and Chromium VI content as specified in Directive 94/62/EC and its amendment Directive (EU) 2015/720.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996 Acid digestion/microwave digestion method was used, analysis of total Lead, Cadmium, Mercury and Chromium was performed by ICP-OES. Chromium VI determination was performed by UV-Vis Spectrophotometer.

Tested Item(s)	Unit	Limit	MDL		Result	
rested item(s)	Onic	Liiiit	WIDL	12	13	14
Total Lead (Pb)	mg/kg	-	5	ND	ND	ND
Total Cadmium (Cd)	mg/kg	-	5	ND	ND	ND
Total Chromium VI (Cr VI)	mg/kg	-	5	ND	ND	ND
Total Mercury (Hg)	mg/kg	-	5	ND	ND	ND
Total (Pb+Cd+Hg+Cr VI)	mg/kg	100	-	ND	ND	ND

Remark:

mg/kg = milligram per kilogram MDL = method detection limit ND = Not detected, less than MDL "-" = Not Regulated

END OF THE REPORT