

## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 1 of 14

**FIMA KIRTASIYE BIL HIZ YAY KIT TUR DIS TIC LTD.STI**  
ISTOC TICARET MERKEZI 3 YOLSK PETROL PLAZA KAT 5 MAHMUTBEY ISTANBUL  
TEL: 02126597441  
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**To the attention of Hatice Abak**

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Play Dough L8500

Client's reference No. : TR 437103  
Buyer : Hardline  
Division : Stationery  
Order No. : Not Provided  
Model/Style No. : L8240,L8340, L8000, L8100,L8800, L8700,L8600,L8410, L8240, L8360  
Article No. : Not Provided  
Age Grade : Not Provided  
Age Group Applied : Not Provided  
Manufacturer : Not Provided  
Country of Origin : Not Provided  
Country of Destination : Not Provided  
Shipment Date : Not Provided  
Sample Receiving Date : 11 January 2013  
Test Performing Period : 11 January 2013 ~ 28 January 2013  
**Submitted Care Label Instructions** : Not Provided  
**Overall Conclusion** : **See Results**  
Test Results : Please refer to the next page(s).  
**Performed Test Summary:** Selected test(s) as requested by client against Client's performance standard.

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 2 of 14

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
Acetone	See Results
Volatile Organic Compounds (VOCs)	See Results

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 3 of 14

Test Parameters	Result			
	A1 + A2	A3 + A4	A5 + A6 + A7	A8 + A9
<b>Chemical tests</b>				
Azo Dyes (Natural)	M	M	M	M
Migration of Certain Elements	M	M	M	M
Phthalates	M	M	M	M
Preservatives (other than wood preservatives)	M	M	-	-
Primary Aromatic Amines	M	M	-	-
Colorants	M	M	-	-

Test Parameters	Result
	A4
<b>Chemical tests</b>	
Acetone	*
Volatile Organic Compounds (VOCs)	*

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 4 of 14

Remarks	:	M = Meets client's requirement
		F = Below client's requirement
		* = No specified requirement

Notes: Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).

The test results relate to the tested items only.  
Test reports without SGS seal and authorised signatures are invalid.  
Reported results do not include uncertainties.  
In this Test Report tests marked (1) are included in the UKAS Accreditation Scope, marked (2) are included in the DAkkS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS or DAkkS Accreditation.

**IN THIS REVISED-1 REPORT, MODEL/STYLE NO WERE ADDED BY THE REQUEST OF THE APPLICANT.  
THIS REPORT SUPERSEDES OUR REPORT NO: 437103 DATED 28.01.2013**

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd  
Kontrol Servisleri A.Ş.

Eylem Yıldızlı  
Customer Services Supervisor

Ayşe Çimen  
Customer Services Manager




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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 5 of 14

### Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Sample Colour	Material No.	Component	Material	Colour
A	Play Dough L8500	Purple	A1	Play Dough	Play dough	Purple
A	Play Dough L8500	White	A2	Play Dough	Play dough	White
A	Play Dough L8500	Brown	A3	Play Dough	Play dough	Brown
A	Play Dough L8500	Orange	A4	Play Dough	Play dough	Orange
A	Play Dough L8500	Green	A5	Cover plastic main	Plastic	Green
A	Play Dough L8500	Black	A6	Cover plastic main	Plastic	Black
A	Play Dough L8500	Red	A7	Cover plastic main	Plastic	Red
A	Play Dough L8500	Yellow	A8	Cover plastic main	Plastic	Yellow
A	Play Dough L8500	Clear	A9	Clear box	Plastic	Clear

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 6 of 14

### Detail Test Result:

#### Azo Dyes (Natural)<sup>1 2</sup>

Test Method: ACCORDING TO BS EN 14362-1:2003 - ANALYSIS BY GC-MS/HPLC-DAD

Component	Cas No	A1 + A2	A3 + A4	A5 + A6 + A7	A8 + A9
4-Aminobiphenyl	92-67-1	n.d.	n.d.	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisoole	615-05-4	n.d.	n.d.	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.	n.d.	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.	n.d.	n.d.
**4-aminoazobenzene	60-09-3	n.d.	n.d.	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

#### Note(s):

n.d. = not detected

\* = exceed the limit

Detection Limit = 5 mg/kg (for individual compound)

#### Requirement by the client= 30 mg/kg

Remark: \*\* Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.  
Max. limit specified by EU directive 2002/61/EC

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 7 of 14

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

### Migration of Certain Elements

Test Method: WITH REFERENCE TO BS EN 71-3:1995 BS 5665-3:1995 - ANALYSED BY ICP-OES/MS

<u>Component</u>	<u>A1 + A2</u>	<u>A3 + A4</u>	<u>A5 + A6 + A7</u>	<u>A8 + A9</u>
Antimony (Sb)	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	n.d.	n.d.	n.d.	n.d.
<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

#### Note(s):

n.d. = not detected  
\* = exceed the limit  
< = less than

Detection Limit = Sb: 5 mg/kg, As: 2,5 mg/kg, Ba: 10 mg/kg, Cd: 5 mg/kg, Cr: 5 mg/kg, Pb: 5 mg/kg, Hg: 5 mg/kg, Se: 10 mg/kg

<b>Requirement by the client=</b>		
Antimony (Sb)	60 mg/kg	
Arsenic (As)	25 mg/kg	
Barium(Ba)	1000 mg/kg	
Cadmium (Cd)	75 mg/kg	
Chromium(Cr)	60 mg/kg	
Lead(Pb)	90 mg/kg	
Mercury (Hg)	60 mg/kg	
Selenium (Se)	500 mg/kg	

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 8 of 14

### Phthalates<sup>2</sup>

Test Method:

WITH REFERENCE TO EN 14372:2004 - ANALYSIS BY GC-MS

<u>Component</u>	<u>Cas No</u>	<u>A1 + A2</u>	<u>A3 + A4</u>	<u>A5 + A6 + A7</u>	<u>A8 + A9</u>
Dibutyl Phthalate (DBP)	84-74-2	n.d.	n.d.	n.d.	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.	n.d.	n.d.	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.	n.d.	n.d.	n.d.
Total (DBP+BBP+DEHP)		n.d.	n.d.	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
Diisononyl Phthalate (DINP)	28553-12-0	n.d.	n.d.	n.d.	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.	n.d.	n.d.	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.	n.d.	n.d.	n.d.
Total (DINP+DNOP+DIDP)		n.d.	n.d.	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

### Note(s):

n.d. = not detected  
\* = exceed the limit  
< = less than

Detection Limit =

### Recommended Max. Limit=

For DBP, BBP, DEHP, DIBP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound)  
0,1 % for Total (DBP+BBP+DEHP) For all childcare articles  
0,1 % for Total (DINP+DNOP+DIDP) For childcare articles if it can be placed in the mouth

### Remark:

DMEP, DIBP: Not detected

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).



## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013

Page 9 of 14

### Preservatives (other than wood preservatives)

Test Method: SAMPLE PREPARATION WITH REFERENCE EN 71-10:2005 FOLLOWED BY ANALYSIS WITH REFERENCE TO EN 71-11:2005

Component	Cas No	A1 + A2	A3 + A4
Phenol	108-95-2	n.d.	n.d.
1,2-Benzylisothiazolin-3-one	2634-33-5	n.d.	n.d.
2-Methyl-4-isothiazolin-3-one	2682-20-4	n.d.	n.d.
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	n.d.	n.d.
5-Chloro-2-methyl-4-isothiazolin-3-one + 2-Methyl-4-isothiazolin-3-one	--	n.d.	n.d.
Formaldehyde (free)	50-00-0	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>

#### Note(s):

n.d. = not detected  
\* = exceed the limit

	Detection Limit	Requirement by Client
Phenol	5 mg/kg	10 mg/kg
1,2-Benzylisothiazolin-3-one	5 mg/kg	5 mg/kg
2-Methyl-4-isothiazolin-3-one	5 mg/kg	10 mg/kg
5-Chloro-2-methyl-4-isothiazolin-3-one	5 mg/kg	10 mg/kg
5-Chloro-2-methyl-4-isothiazolin-3-one + 2-Methyl-4-isothiazolin-3-one	10 mg/kg	15 mg/kg
Formaldehyde (free)	150 mg/kg	500 mg/kg

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 10 of 14

### Primary Aromatic Amines

Test Method: SAMPLE PREPARATION WITH REFERENCE EN 71-10:2005 FOLLOWED BY ANALYSIS WITH REFERENCE TO EN 71-11:2005			
<u>Component</u>	<u>Cas No</u>	<u>A1 + A2</u>	<u>A3 + A4</u>
Benzidine	92-87-5	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.
2-Methoxyaniline (o-Anisidine)	90-04-0	n.d.	n.d.
Aniline	62-53-3	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>
<b>Note(s):</b>			
n.d. = not detected			
* = exceed the limit			
Detection Limit = 2 mg/kg			
<b>Requirement by the client= 5 mg/kg</b>			

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 11 of 14

### Colorants

Test Method: SAMPLE PREPARATION WITH REFERENCE EN 71-10:2005 FOLLOWED BY ANALYSIS WITH REFERENCE TO EN 71-11:2005

<u>Component</u>	<u>Cas No</u>	<u>A1 + A2</u>	<u>A3 + A4</u>
Disperse Blue 1	2475-45-8	n.d.	n.d.
Disperse Blue 3	2475-46-9	n.d.	n.d.
Disperse Blue 106	12223-01-7	n.d.	n.d.
Disperse Blue 124	61951-51-7	n.d.	n.d.
Disperse Yellow 3	2832-40-8	n.d.	n.d.
Disperse Orange 3	730-40-5	n.d.	n.d.
Disperse Orange 37/76	13301-61-6	n.d.	n.d.
Disperse Red 1	2872-52-8	n.d.	n.d.
Solvent Yellow 1	60-09-3	n.d.	n.d.
Solvent Yellow 2	60-11-7	n.d.	n.d.
Solvent Yellow 3	97-56-3	n.d.	n.d.
Basic Red 9	569-61-9	n.d.	n.d.
Basic Violet 1	8004-87-3	n.d.	n.d.
Basic Violet 3	548-62-9	n.d.	n.d.
Acid Red 26	3761-53-3	n.d.	n.d.
Acid Violet 49	1694-09-3	n.d.	n.d.
	<b>Conclusion</b>	<b>Pass</b>	<b>Pass</b>

### Note(s):

n.d. = not detected  
\* = exceed the limit  
Detection Limit = 2 mg/kg

**Requirement by the client= 10 mg/kg**

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 12 of 14

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### Remarks :

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

### Acetone

Test Method : With reference to US EPA 5021A:2003, US EPA 8260C:2006, analysis was performed by HS-GC-MS

Test Item(s)	CAS_NO	Unit	MDL	A4
Acetone	67-64-1	mg/kg	5	ND

### Volatile Organic Compounds (VOCs)

Test Method : with reference to US EPA 5021A:2003, analysis was performed by HS-GC-MS.

Test Item(s)	CAS NO	Unit	MDL	A4
Toluene	108-88-3	µg/g	1	ND
m-p-Xylene	108-38-3/106-42-3	µg/g	2	ND
o-Xylene	95-47-6	µg/g	1	ND
Xylene		µg/g	-	ND
Benzene	71-43-2	µg/g	1	ND
1,1,1-Trichloroethane	71-55-6	µg/g	1	ND
Trichloroethylene	79-01-6	µg/g	1	ND
1,2-Dichloropropane	78-87-5	µg/g	1	ND

#These test have been performed at SGS Shanghai as subcontract.

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## TEST REPORT

Job No./Report No TR437103 R1 Date:25 April 2013 Page 13 of 14



CTSL-F-5.10-1NF/31.03.2011/Rev.1

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**TEST REPORT**

Job No./Report No TR437103 R1 Date:25 April 2013 Page 14 of 14



\* \* \* End of Test Report \* \* \*

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