

# **TEST REPORT**



AB-0505-T

72172650049 **REVISION** 

10.10.2017

LAB LOCATION: TURKEY

LAB NO.: (7217)265-0049 **REVISION** 

**SERVICE TYPE: Regular** DATE IN: September 22th, 2017

DATE OUT: October 05th, 2017

REVISION DATE: October 10th, 2017

: LISANS KIRTASIYE OFIS GERECLERI SAN. TIC. A.Ş. MATERIAL SUBMITTED

(Address: Şerifali Mah. Emin Sok. No:26 Ümraniye / İstanbul)

(Attnn: okansivas@gmail.com)

IMPORTER COMPANY

LV-Y-650 MODEL NO

SUPPLIER REFERENCE : / BUYER

: LISANS KIRTASIYE OFIS GERECLERI SAN. TIC. A.Ş. **MANUFACTURER** 

COUNTRY OF ORIGIN : TURKEY

: **SAMPLE A:** GEL ADHESIVE SAMPLE DESCRIPTION

**BRAND NAME** 

PRODUCTION DATE SAMPLE SUBMISSION/

**BUYING DATE** 

SUPPLIER MARKET

**GENERAL CONCLUSION** 

#### SUMMARY OF TEST RESULTS

TEST REQUIRED	Sample A
Migration of Certain Elements*	P
Primary Aromatic Amines in Toy According to EN 71:9	P
*TURKAK ACCREDITED TESTS	

#### P:PASS

F:FAIL

REMARK 1\*= The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline.

The test result, the uncertainties (if applicable) with confidence probability are given on the following pages which are part of this report.

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BV CPS TEST LABORATUVARLARI LTD. STI. BUREAU VERITAS CONSUMER PRODUCTS SERVICES Yalçın Koreş Caddesi No:22 Erdinç Binaları A Blok 2. Kule 1. Kat 34209 Güneşli, Istanbul / Turkey Tel:+90.212.494 35 35 Fax:+90.212.494 35 60 email:info.turkey@bvcps.com.tr website: www.bureauveritas.com/cps

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Our report includes all the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents



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**EXECUTIVE SUMMARY:** Only vendor selected tests have been performed and submitted sample has been rated as "PASS".

**REMARK 1:** "Primary Aromatic Amines in Toy According to EN 71:9" analysis have been performed by BV-Schwerin Laboratories as subcontracted (Report No: (25417)271-367382).

**REMARK 2:** 72172650049 test report dated October 05<sup>th</sup>, 2017 is not valid, it is replaced by this report 72172650049 REVISION.

**REMARK 3:** As per client's request, "Migration of Certain Elements" test results of component I008 Transparent Borax and "Primary Aromatic Amines in Toy According to EN 71:9" test results of component 6-Liquid Borax Transparent has been removed from the test report. Overall Conclusion has been changed as PASS from FAIL.

Bureau Veritas Consumer Products Services Turkey BV CPS Test Lab. Ltd. Sti.

Eylem Yaldizli

**Client Team Lead -Hardline** 

Kerem Can

**Operations Manager** 



# -Photos of the Submitted Sample-





#### **TEST RESULTS**

#### **MIGRATION OF CERTAIN ELEMENTS**

**Test Method**: European Standard EN 71 Part 3: 2013 with Amendment A1: 2014, Section 8.

: I001 Black Plastic Cover
: I002 Transparent Plastic Box
: I003 Transparent Gel &Slime Glue
: I004 Violet Gel &Slime Glue

**Tested Item(s)**: I004 Violet Gel &Slime Glue **Sample A**: I005 Green Gel &Slime Glue

: I006 Blue Gel &Slime Glue: I007 Pink Gel &Slime Glue

: I009 Red Pink White Black Printed Label On Glues: I010 Red Green White Black Printed Label On Glues

See Soluble Element (Parameter) and its	Type I	Dry, brittle, powder-like or pliable toy material
corresponding Maximum Allowable Limit (Req.) in	Type II	Liquid or sticky toy material
Result Table	Type III	Scraped-off toy material

-	Unit	Req.	Result			
Test Item(s)	-	-	I001	I002	I009	I010
Type	-	III	III	III	III	III
Parameter	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	5.20	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	30.60	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	208.48	123.86
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS



#### **TEST RESULTS**

#### **MIGRATION OF CERTAIN ELEMENTS**

**Test Method** : European Standard EN 71 Part 3: 2013 with Amendment A1: 2014, Section 8.

See Soluble Element (Parameter) and its	Type I	Dry, brittle, powder-like or pliable toy material
corresponding Maximum Allowable Limit (Req.) in	Type II	Liquid or sticky toy material
Result Table	Type III	Scraped-off toy material

-	Unit	Req.	Result				
Test Item(s)	-	-	I003	I004	I005	I006	I007
Туре	-	II	II	II	II	II	II
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	1406	ND	ND	ND	ND	3.17
Antimony (Sb)	mg/kg	11.3	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	0.9	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	375	ND	ND	ND	ND	ND
Boron (B)	mg/kg	300	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	0.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	9.4	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.005	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	2.6	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	156	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	0.5	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	300	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	1.9	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	18.8	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	9.4	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	1125	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	3750	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.2	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	938	ND	ND	ND	ND	ND
Conclusion	_	-	PASS	PASS	PASS	PASS	PASS

#### Note / Key:

ND = Not detected NR = Not requested ">" = Greater than g = gram(s)MX = Not requested g = grain(s)

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

[] = Detection Limit by In House Ion Chromatography Analysis

Detection Limit (mg/kg):

For Type I and Type II - Each (As, Cd, Cr III and Hg): 0.15; Cr VI: 0.005 [0.002]; Organic tin: 0.04; Pb: 0.5; Each (Others): 2

For Type III - Cr III: 0.15; Cr VI: 0.15 [0.002]; Each (Others): 2

Req. = Requirement INCON. = Inconclusive



#### Remark:

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The European Commission amended the maximum allowable limit(s) of migratable lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

#### Comment:

Latest amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13:						
-	Type I	Type II	Type III			
Element(s)	Lead (Pb)	Lead (Pb)	Lead (Pb)			
Current	13.5 mg/kg	3.4 mg/kg	160 mg/kg			
Amended <sup>[a]</sup>	2.0 mg/kg	0.5 mg/kg	23 mg/kg			

<sup>&</sup>lt;sup>[a]</sup> denotes as these maximum allowable limits apply from October 28, 2018 according to European Council Directive (EU) 2017/738 of 27 March 2017 amending, for the purpose of adapting to technical progress, Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the safety of toys, as regards lead.



#### **TEST RESULTS**

#### PRIMARY AROMATIC AMINES IN TOY ACCORDING TO EN 71:9

## **Tested Samples**

Article No	Sample ID	Sample description	
	367382-01	1) Jel & Slime Glue pink	
	367382-02	2) Jel & Slime Glue purple	
	367382-03	3) Jel & Slime Glue blue	
	367382-04	4) Jel & Slime Glue green	
	367382-05	5) Jel & Slime Glue transparent	

Sample Description: 1) Jel & Slime Glue pink		Lab Reference No:	367382-01			
Test Method / Standard: Primary aromatic amines in toys: EN 71-9/10/11: LC/MS or GC-MS analysis; reporting limit: 1 mg/kg						
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.						
Parameter	Limit	Result	Rating			
Benzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Naphtylamine	≤ 5 mg/kg	<1 mg/kg	Pass			
4-Chloroaniline	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dichlorobenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethoxybenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethylbenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
o-Toluidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Methoxyanilin (o-Anisidine)	≤ 5 mg/kg	<1 mg/kg	Pass			
Aniline	≤ 5 mg/kg	<1 mg/kg	Pass			
4 - Aminobiphenyle		<1 mg/kg	No Specification			
4 - Chloro-o-toluidine		<1 mg/kg	No Specification			
o - Aminoazotoluene		<1 mg/kg	No Specification			
2 - Amino-4-nitrotoluene		<1 mg/kg	No Specification			
2.4 - Diaminoanisole		<1 mg/kg	No Specification			
4.4 - Diaminodiphenylmethane		<1 mg/kg	No Specification			
3.3-Dimethyl-4.4-diaminodiphenylmethane		<1 mg/kg	No Specification			
p - Cresidine		<1 mg/kg	No Specification			
4.4 - Methylene-bis-2-chloroaniline		<1 mg/kg	No Specification			
4.4 - Oxydianiline		<1 mg/kg	No Specification			
4.4 - Thiodianiline		<1 mg/kg	No Specification			
2.4 - Toluenediamine		<1 mg/kg	No Specification			
2.4.5 - Trimethylaniline		<1 mg/kg	No Specification			
2.4 - Xylidine		<1 mg/kg	No Specification			
2.6 - Xylidine		<1 mg/kg	No Specification			
4 - Aminoazobenzene		<1 mg/kg	No Specification			
Aromatic Amines	≤ 5 mg/kg	not detected	Pass			



#### **TEST RESULTS**

Sample Description: 2) Jel & Slime Glue purple		Lab Reference No:	367382-02			
Test Method / Standard: Primary aromatic amines in toys: EN 71-9/10/11: LC/MS or GC-MS analysis; reporting limit: 1 mg/kg						
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.						
Parameter	Limit	Result	Rating			
Benzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Naphtylamine	≤ 5 mg/kg	<1 mg/kg	Pass			
4-Chloroaniline	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dichlorobenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethoxybenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethylbenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
o-Toluidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Methoxyanilin (o-Anisidine)	≤ 5 mg/kg	<1 mg/kg	Pass			
Aniline	≤ 5 mg/kg	<1 mg/kg	Pass			
4 - Aminobiphenyle		<1 mg/kg	No Specification			
4 - Chloro-o-toluidine		<1 mg/kg	No Specification			
o - Aminoazotoluene		<1 mg/kg	No Specification			
2 - Amino-4-nitrotoluene		<1 mg/kg	No Specification			
2.4 - Diaminoanisole		<1 mg/kg	No Specification			
4.4 - Diaminodiphenylmethane		<1 mg/kg	No Specification			
3.3-Dimethyl-4.4-diaminodiphenylmethane		<1 mg/kg	No Specification			
p - Cresidine		<1 mg/kg	No Specification			
4.4 - Methylene-bis-2-chloroaniline		<1 mg/kg	No Specification			
4.4 - Oxydianiline		<1 mg/kg	No Specification			
4.4 - Thiodianiline		<1 mg/kg	No Specification			
2.4 - Toluenediamine		<1 mg/kg	No Specification			
2.4.5 - Trimethylaniline		<1 mg/kg	No Specification			
2.4 - Xylidine		<1 mg/kg	No Specification			
2.6 - Xylidine		<1 mg/kg	No Specification			
4 - Aminoazobenzene		<1 mg/kg	No Specification			
Aromatic Amines	≤ 5 mg/kg	not detected	Pass			



#### **TEST RESULTS**

Sample Description: 3) Jel & Slime Glue blue		Lab Reference No:	367382-03			
Test Method / Standard: Primary aromatic amines in toys: EN 71-9/10/11: LC/MS or GC-MS analysis; reporting limit: 1 mg/kg						
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.						
Parameter	Limit	Result	Rating			
Benzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Naphtylamine	≤ 5 mg/kg	<1 mg/kg	Pass			
4-Chloroaniline	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dichlorobenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethoxybenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethylbenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
o-Toluidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Methoxyanilin (o-Anisidine)	≤ 5 mg/kg	<1 mg/kg	Pass			
Aniline	≤ 5 mg/kg	<1 mg/kg	Pass			
4 - Aminobiphenyle		<1 mg/kg	No Specification			
4 - Chloro-o-toluidine		<1 mg/kg	No Specification			
o - Aminoazotoluene		<1 mg/kg	No Specification			
2 - Amino-4-nitrotoluene		<1 mg/kg	No Specification			
2.4 - Diaminoanisole		<1 mg/kg	No Specification			
4.4 - Diaminodiphenylmethane		<1 mg/kg	No Specification			
3.3-Dimethyl-4.4-diaminodiphenylmethane		<1 mg/kg	No Specification			
p - Cresidine		<1 mg/kg	No Specification			
4.4 - Methylene-bis-2-chloroaniline		<1 mg/kg	No Specification			
4.4 - Oxydianiline		<1 mg/kg	No Specification			
4.4 - Thiodianiline		<1 mg/kg	No Specification			
2.4 - Toluenediamine		<1 mg/kg	No Specification			
2.4.5 - Trimethylaniline		<1 mg/kg	No Specification			
2.4 - Xylidine		<1 mg/kg	No Specification			
2.6 - Xylidine		<1 mg/kg	No Specification			
4 - Aminoazobenzene		<1 mg/kg	No Specification			
Aromatic Amines	≤ 5 mg/kg	not detected	Pass			



#### **TEST RESULTS**

Sample Description: 4) Jel & Slime Glue green		Lab Reference No:	367382-04			
Test Method / Standard: Primary aromatic amines in toys: EN 71-9/10/11: LC/MS or GC-MS analysis; reporting limit: 1 mg/kg						
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.						
Parameter	Limit	Result	Rating			
Benzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Naphtylamine	≤ 5 mg/kg	<1 mg/kg	Pass			
4-Chloroaniline	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dichlorobenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethoxybenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethylbenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
o-Toluidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Methoxyanilin (o-Anisidine)	≤ 5 mg/kg	<1 mg/kg	Pass			
Aniline	≤ 5 mg/kg	<1 mg/kg	Pass			
4 - Aminobiphenyle		<1 mg/kg	No Specification			
4 - Chloro-o-toluidine		<1 mg/kg	No Specification			
o - Aminoazotoluene		<1 mg/kg	No Specification			
2 - Amino-4-nitrotoluene		<1 mg/kg	No Specification			
2.4 - Diaminoanisole		<1 mg/kg	No Specification			
4.4 - Diaminodiphenylmethane		<1 mg/kg	No Specification			
3.3-Dimethyl-4.4-diaminodiphenylmethane		<1 mg/kg	No Specification			
p - Cresidine		<1 mg/kg	No Specification			
4.4 - Methylene-bis-2-chloroaniline		<1 mg/kg	No Specification			
4.4 - Oxydianiline		<1 mg/kg	No Specification			
4.4 - Thiodianiline		<1 mg/kg	No Specification			
2.4 - Toluenediamine		<1 mg/kg	No Specification			
2.4.5 - Trimethylaniline		<1 mg/kg	No Specification			
2.4 - Xylidine		<1 mg/kg	No Specification			
2.6 - Xylidine		<1 mg/kg	No Specification			
4 - Aminoazobenzene		<1 mg/kg	No Specification			
Aromatic Amines	≤ 5 mg/kg	not detected	Pass			



## TEST RESULTS

Sample Description: 5) Jel & Slime Glue transparent		Lab Reference No:	367382-05			
Test Method / Standard: Primary aromatic amines in toys: EN 71-9/10/11: LC/MS or GC-MS analysis; reporting limit: 1 mg/kg						
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.						
Parameter	Limit	Result	Rating			
Benzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Naphtylamine	≤ 5 mg/kg	<1 mg/kg	Pass			
4-Chloroaniline	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dichlorobenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethoxybenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
3,3'-Dimethylbenzidine	≤ 5 mg/kg	<1 mg/kg	Pass			
o-Toluidine	≤ 5 mg/kg	<1 mg/kg	Pass			
2-Methoxyanilin (o-Anisidine)	≤ 5 mg/kg	<1 mg/kg	Pass			
Aniline	≤ 5 mg/kg	<1 mg/kg	Pass			
4 - Aminobiphenyle		<1 mg/kg	No Specification			
4 - Chloro-o-toluidine		<1 mg/kg	No Specification			
o - Aminoazotoluene		<1 mg/kg	No Specification			
2 - Amino-4-nitrotoluene		<1 mg/kg	No Specification			
2.4 - Diaminoanisole		<1 mg/kg	No Specification			
4.4 - Diaminodiphenylmethane		<1 mg/kg	No Specification			
3.3-Dimethyl-4.4-diaminodiphenylmethane		<1 mg/kg	No Specification			
p - Cresidine		<1 mg/kg	No Specification			
4.4 - Methylene-bis-2-chloroaniline		<1 mg/kg	No Specification			
4.4 - Oxydianiline		<1 mg/kg	No Specification			
4.4 - Thiodianiline		<1 mg/kg	No Specification			
2.4 - Toluenediamine		<1 mg/kg	No Specification			
2.4.5 - Trimethylaniline		<1 mg/kg	No Specification			
2.4 - Xylidine		<1 mg/kg	No Specification			
2.6 - Xylidine		<1 mg/kg	No Specification			
4 - Aminoazobenzene		<1 mg/kg	No Specification			
Aromatic Amines	≤ 5 mg/kg	not detected	Pass			



# **APPENDIX**

#### **Detailed Method Descriptions**

Analysis / Test: Primary aromatic amines in toys

EN 71-9/10/11: Migration in water. LC/MS or GC-MS analysis, reporting limit: 1 mg/kg

#### Parameters & CAS No.

	Parameter
Primary aromatic amines in toys	(CAS No.)
4.4 - Methylene-bis-2-chloroaniline (101-14-4)	
4.4 - Diaminodiphenylmethane (101-77-9)	
4.4 - Oxydianiline (101-80-4)	
4-Chloroaniline (106-47-8)	
3,3'-Dimethoxybenzidine (119-90-4)	
3,3'-Dimethylbenzidine (119-93-7)	
p - Cresidine (120-71-8)	
2.4.5 - Trimethylaniline (137-17-7)	
4.4 - Thiodianiline (139-65-1)	
4 - Aminoazobenzene (60-09-3)	
2.4 - Diaminoanisole (615-05-4)	
Aniline (62-53-3)	
3.3-Dimethyl-4.4-diaminodiphenylmethane (838-88-0)	
2.6 - Xylidine (87-62-7)	
2-Methoxyanilin (o-Anisidine) (90-04-0)	
2-Naphtylamine (91-59-8)	
3,3'-Dichlorobenzidine (91-94-1)	
4 - Aminobiphenyle (92-67-1)	
Benzidine (92-87-5)	
o-Toluidine (95-53-4)	
2.4 - Xylidine (95-68-1)	
4 - Chloro-o-toluidine (95-69-2)	
2.4 - Toluenediamine (95-80-7)	
o - Aminoazotoluene (97-56-3)	
2 - Amino-4-nitrotoluene (99-55-8)	

### - END OF REPORT -

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