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TEST REPORT

NUMBER: LECH00346313G

DATE: 10th January 2014

SAMPLE DESCRIPTION: Alto

REFERENCE / STYLE NO: Not Specified

SAMPLE RECEIVED: 06th January 2014

PURCHASE ORDER: Not Specified

TEST REQUEST: *Safety Assessment in accordance with Article 18 of the Toy Safety Directive 2009/48/EC

CONCLUSION: Based on the information supplied and subject to further investigations as detailed within this report, the item was assessed and found to present no hazard which would result in an unacceptable risk to the user or third party when used in a foreseeable way

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1. Introduction

The item was submitted for a Safety Assessment in accordance with Article 18 of the Toy Safety Directive 2009/48/EC to identify:

- (i) any hazards which may not be fully addressed by existing harmonised European toy safety standards
- (ii) scope of testing
- iii) need for further testing/Type Examination

2. Product Description

The item is a set of stacking beach toys measuring approximately 110 x 180mm, 95mm x 135mm and 85mm x 90mm made from Acrylonitrile Butadiene Styrene (ABS). These were turquoise, yellow and purple.

A partial bill of materials was supplied.

3. Age Grade/Labeling/Warnings

The paper wrap band was labelled as follows:

- 18M +
- Quut ® CUTE BEACH TOYS FOR GIRLS AND BOYS
- Clicks together easily
- www.quutbeachtoys.com
- EN Quut products comply with following toy safety and chemical standards (this comment is also in French, German, Dutch, Spanish, Italian and Japanese)
- EN71 (EU), ASTM F963 (USA) and ST 2012 (JPN)
- Barcode
- QULUT / Snepkaai 5 / 9000 Gent / Belgium 9000
- CE Mark
- ABS

The CPSC age guidelines states that children of 8-11 months enjoy exploratory toys such as stacking toys.

4. Assessment

4.1 Physical & Mechanical Hazards

The Physical/Mechanical hazards of this item listed below would be fully addressed by EN 71-1:

- Hygiene
- Laceration
- Puncture
- Choking

There were no potential hazards identified which would not be covered by EN71-1.

4.2 Physical/ non-mechanical Hazards

4.2.1 Flammability

The flammability hazards of this item would be fully addressed by EN 71-2.

4.3 Chemical Hazards

The main likely route of exposure is via skin contact and ingestion.

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4.3.1 Migration of Certain Elements

This would be fully addressed by EN 71-3. Based on the information provided we are unable to comment on the risk of migration of Cr (VI) or organic tin.

4.3.2 Phthalates

The item is subject to the requirements of REACH regulation 1907/2006 Annex XVII and Annex XIV.

4.3.3 EN71-9

The item is within the scope of EN 71-9 and should be assessed against its requirements, EN71-9 will address;

- Solvent migration within polymers
- Monomers within polymers
- Plasticisers within polymers

4.3.4 CMR

Based on current knowledge it is not likely that there would be a significant risk from CMRs with this item.

4.4 Other hazards

4.4.1 Radioactivity

Based on current knowledge it is not likely that there would be a significant risk from radioactivity with this item.

5 Labelling

The packaging was found to have the labelling required for EN71-1.

Appendix (with regards to safety)

Mandatory Legal Requirements:

- Toy Safety Directive 2009/48/EC
- REACH Regulation 1907/2006 Annex XVII (Phthalates)

Relevant harmonised toy standards:

- EN 71-1 Safety of toys – Part 1: Mechanical and Physical properties
- EN 71-2 Safety of toys – Part 2: Flammability
- EN 71-3 Safety of toys – Part 3: Migration of certain elements

Other legislative requirements:

- Cadmium content requirement of annex XVII of the REACH regulation (EC) No. 1907/2006
- Directive 94/62/EC on packaging and packaging waste

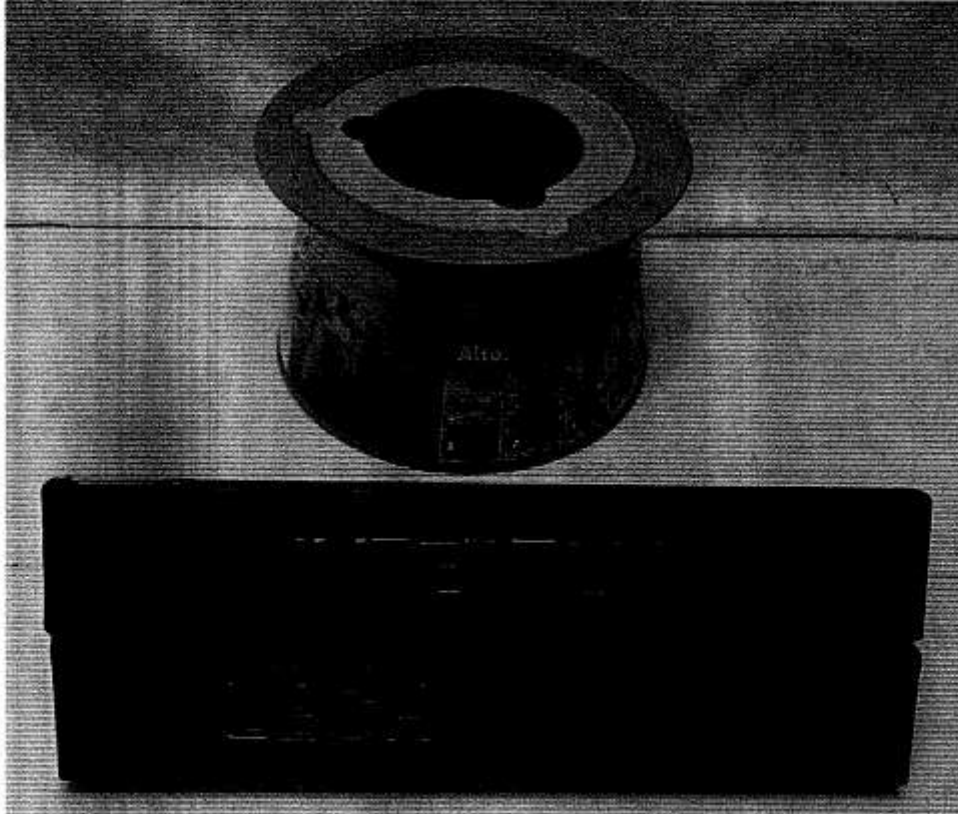
Other recommended testing:

- EN 71-9 Safety of toys – Part 9: Organic chemical compounds – requirements
- Investigate the risk of harmful solvents
- Investigate the risk of harmful monomers
- Investigate the risk of harmful plasticisers

Note: This assessment is based on a review of the sample and the information and documentation supplied. It reflects the current state of knowledge, particularly with respect to the chemical risks, and should be reviewed if the product or materials are changed or new information becomes available.

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TEST REPORT

NUMBER: LECH00346313F

DATE: 13th January 2014

SAMPLE DESCRIPTION: Alto

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLE RECEIVED: 6th January 2014

PURCHASE ORDER: Not specified

TEST REQUEST: REACH Annex XVII item 23 (Total cadmium) as amended

CONCLUSION: The results of the tests carried out **MEET** the limits of the requested Regulation.

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TEST REPORT

NUMBER: LECH00346313F

Specification: **Total Cadmium in Plastics and Coatings (In-house test method based on BS EN 1122:2001)**

Method Of Test: Plastic and coating components were treated with concentrated sulphuric acid, nitric acid and hydrogen peroxide, and the cadmium content determined by ICP-OES.

No.	Component Identity	Cross-Reference	Result (ppm)	Limits
	PLASTICS			
1	Purple stack top	-	<5	100ppm
2	Yellow stack middle	-	<5	100ppm
3	Turquoise stack bottom	-	<5	100ppm

Date of Testing: 9th – 13th January 2014

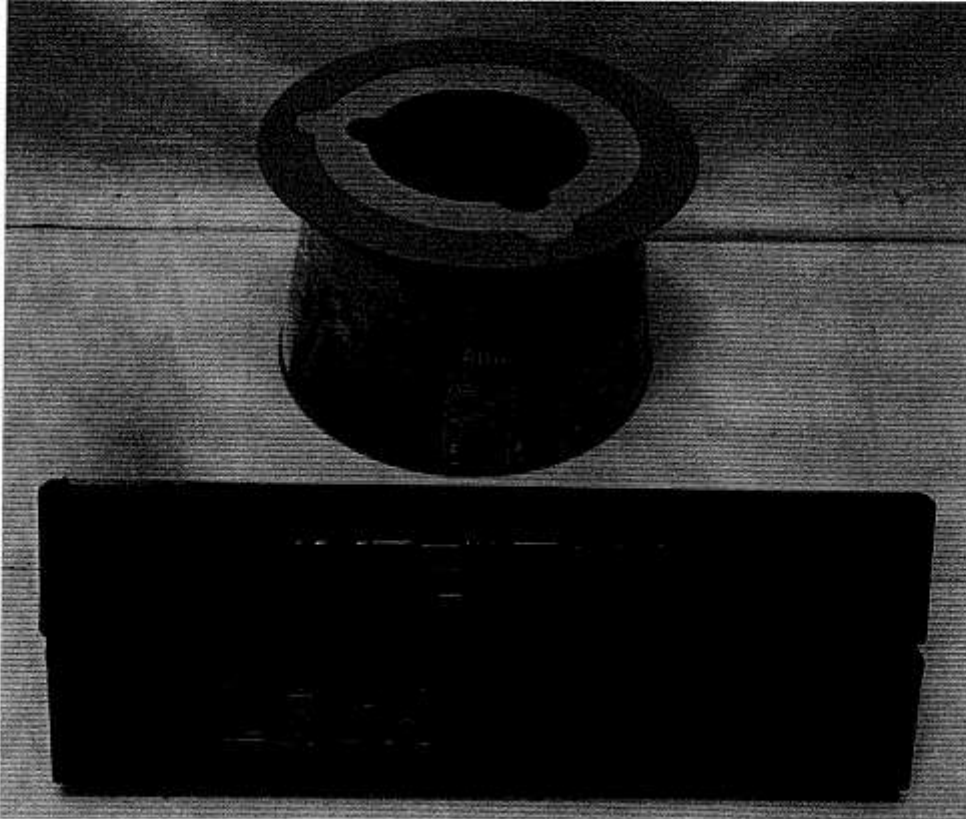
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TEST REPORT

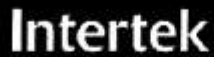
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TEST REPORT

NUMBER: LECH00346313

DATE: 15th January 2014

SAMPLE DESCRIPTION: Alto

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLE RECEIVED: 6th January 2014

PURCHASE ORDER: Not specified

TEST REQUEST: BS EN 71-1: 2011, EN 71-1:2011
BS EN 71-2: 2011, EN 71-2:2011
BS EN 71-3:2013 incorporating corrigendum July 2013, EN 71-3:2013

CONCLUSION: The results of the tests carried out **MEET** the requirements of the requested Standards; however we draw your attention the comments under clauses 5 and 7.

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No.6947

TEST REPORT

NUMBER: LECH00346313

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Specification: BS EN 71-1: 2011, EN 71-1:2011 – Safety of Toys - Specification for Mechanical and Physical Properties

The item was labelled "18m+".

The item was packed in a cardboard sleeve which was considered to be disposable.

The item was tested for children of all ages.

SECTION	TEST	RESULTS
4	GENERAL REQUIREMENTS	
4.1	Material Cleanliness	Pass
4.7	Edges	
	c) Edges of Metal & Rigid Polymer free from Burr	Pass
4.8	Points & Metallic Wires	
	a) Hazardous Sharp Points	Pass
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
	<p>Cleaning & Washing Requirements The Toy Safety Directive 2009/48/EC require that toys for children under 36 months comply with the following:</p> <p><i>A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfil the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions.</i></p> <p>This information appears as a note within the EN71 Standard and is not a requirement; as such no testing was conducted</p>	See comments
5.1	General Requirements	
	a) Toys & Removable Components	Pass
	b) Use and Abuse Tests & Springs	Pass
5.8	Shape & Size Of Certain Toys	Pass
5.10	Small Balls	
	a) Toys shall not be small balls or contain removable small balls	Pass

TEST REPORT

NUMBER: LECH00346313

SECTION	TEST	RESULTS
7	<p>WARNINGS & INSTRUCTIONS FOR USE</p> <p><i>When assessed, the items packaging was found to bear a CE mark which was in line with the general principles set out in Article 30 of Regulation (EC) No 765/2008.</i></p> <p><i>The item's packaging was found to bear the manufactures name and address; however this directive also requires that manufactures shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy where possible.</i></p> <p><i>The requirement applies also to the name and address etc. of any importer</i></p> <p><i>The items packaging bore a reference and batch code, however this information should, unless not technically possible be present on the toy itself.</i></p>	See comments

Date of Testing: 9th – 13th January 2014



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TEST REPORT

NUMBER: LECH00346313

Specification: BS EN 71-2: 2011, EN 71-2:2011 Safety of Toys – Flammability

SECTION	TEST	RESULTS
4.1	GENERAL	
	Celluloid/cellulose nitrate and materials with a similar burning behaviour in fire	Pass

Date of Testing: 9th – 13th January 2014





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TEST REPORT

NUMBER: LECH00346313

Specification: BS EN 71-3:2013 incorporating corrigendum July 2013, EN 71-3:2013

Measurement of the migration of general elements by ICP-MS

Category	TEST	RESULTS
III	Scraped off toy material	Pass

Note: The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

COMMENTS:

The following procedure(s) described in EN71- 3 were used during preparation:

- All samples were adjusted to 1 mol/L unless stated otherwise.

MATERIALS SAMPLED

No.	DESCRIPTION	Sample weight (<100mg)
CATEGORY III – SCRAPED OFF		
1	Purple stack top	
2	Yellow stack middle	
3	Turquoise stack bottom	

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.



TEST REPORT

NUMBER: LECH00346313

CATEGORY III - SCRAPED OFF

Element	Analytical Results																Theoretical Maximum Results			
	Al	As	B	Ba	Cd	Co	Cr	Cu	Hg	Mn	Ni	Pb	Sb	Se	Sn	Sr	Zn	#Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	70000	47	15000	18750	17	130	NA	7700	94	15000	930	160	560	460	180000	56000	46000	460	0.2	12
1	<300	<0.3	<100	<100	<0.1	<1	<5	<100	<0.5	<100	<10	<0.5	<5	<5	<100	<100	<100	<5	<0.01	<0.1
2	<300	<0.3	<100	<100	<0.1	<1	<5	<100	<0.5	<100	<10	<0.5	<5	<5	<100	<100	<100	<5	0.03	0.10
3	<300	2.0	<100	<100	<0.1	<1	<5	<100	<0.5	<100	<10	<0.5	<5	10	<100	<100	<100	<5	0.06	<0.1

The reporting limits are as stated in the table above.

OT = Organic tin

All results and the limits are quoted as mg/kg (ppm) of the named material.

† Sample weight of items marked with a cross were less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

Actual levels of chromium (III) or chromium (VI) have not been determined in this analysis, only overall levels of migratable chromium have been analyzed: the maximum theoretical amount of chromium (III) or (VI) will be equal to or less than the number reported above. Where the value in either of these columns is greater than the associated limit we would advise further testing to accurately determine chromium (III) and chromium (VI) levels.

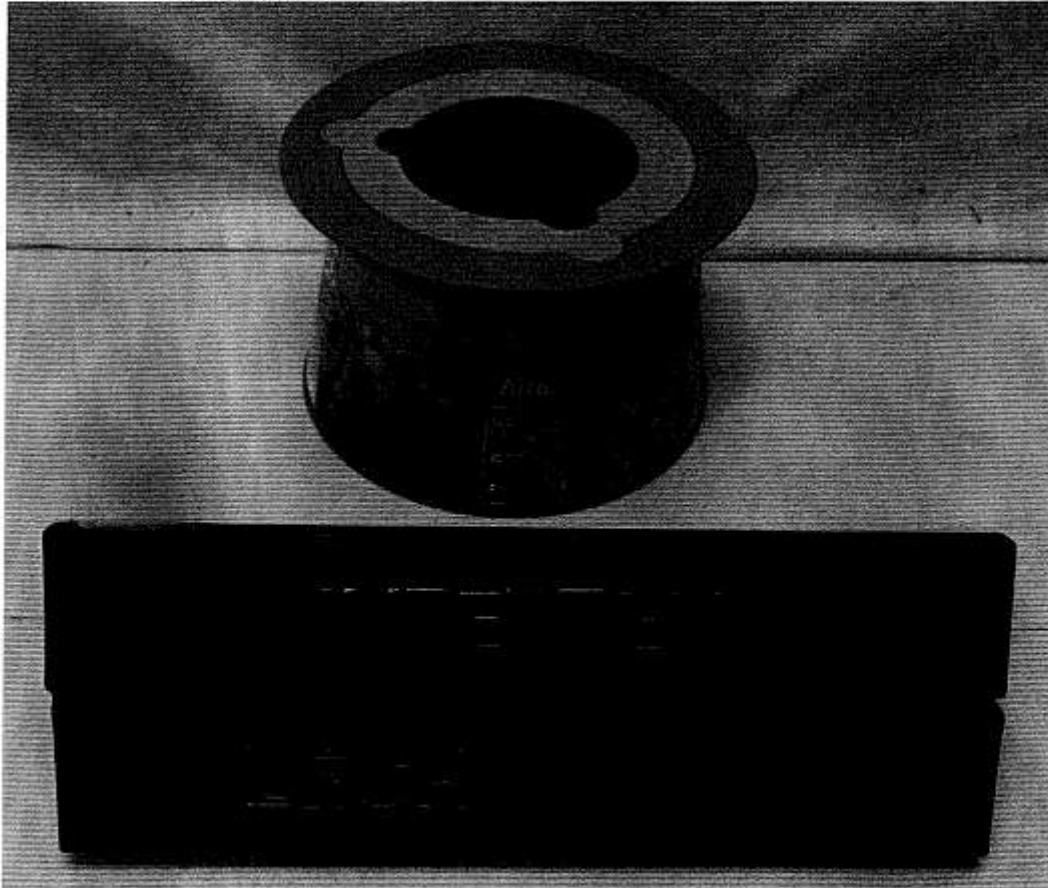
In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples due to the very low PASS/FAIL limit related to these materials.

Actual levels of organic tin have not been determined in this analysis; the maximum theoretical amount of any single organic tin can be different. The result for organic tin presented is calculated as if all the tin were present as TBT (Tri-butyl Tin) only.

Date of Testing: 9th – 13th January 2014

TEST REPORT

NUMBER: LECH00346313



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TEST REPORT

NUMBER: LECH00346313E

DATE: 15th January 2014

SAMPLE DESCRIPTION: Alto

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLES RECEIVED: 6th January 2014

PURCHASE ORDER: Not specified

TEST REQUEST: Total phthalates content, according to CPSIA Requirements.
REACH Annex XVII items 51&52 (Phthalates in toys and childcare articles)

CONCLUSION: The results of the tests carried out **MEET** the requirements of the requested Regulation.

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No.0947

TEST REPORT

NUMBER: LECH00346313E

CPSIA TOTAL PHTHALATES IN PLASTICISED ITEMS

Method

The samples were prepared according to CPSC - CH - C1001 - 09.3 and extracted and analysed according to the method of EN 14372. The results have been evaluated according to the CPSIA Requirements.

Results

	Sample Description	DBP	BBP	DEHP
1	Turquoise plastic	ND	ND	<0.01
2	Yellow plastic	ND	ND	<0.01
3	Purple plastic	ND	ND	<0.01

DNOP	DINP	DIDP
ND	ND	ND
ND	ND	ND
ND	ND	ND

N/D means "not detected".

DBP - Di-butyl phthalate
BBP - Butyl benzyl phthalate
DEHP - Bis-(2-ethylhexyl) phthalate
DNOP - Di-n-octyl phthalate
DINP - Di-iso-nonyl phthalate
DIDP - Di-iso-decyl phthalate

The detection limit for each of the six-listed phthalate esters was 0.001% w/w. All levels are given in percentages by weight (% w/w).

Comments Consumer Product Safety Improvement Act of 2008 (CPSIA) Section 108

Any Toy or Child Care Article

This legislation applies to all plasticised toys and childcare articles. The maximum allowable limit for each of DBP, BBP and DEHP is 0.1% by mass of the plasticised material.

Any Toy or Child Care Article <3yrs AND can be placed in mouth

This legislation also applies to all plasticised toys and childcare articles that can be placed in the mouth by children. The maximum allowable limit for each of DNOP, DINP and DIDP is 0.1% by mass of the plasticised material.

Conclusion

The item(s) are therefore deemed to **PASS** according to the Consumer Product Safety Improvement Act of 2008 (CPSIA) Section 108 requirements.

TEST REPORT

NUMBER: LECH00346313E

TOTAL PHTHALATES IN PLASTICISED ITEMS

Method

The samples were tested following the method of EN 14372, according to Annex XVII items 51 & 52 of EU Regulation 1907/2006 (REACH).

Results

Sample	%DBP	%BBP	%DEHP
Turquoise plastic	ND	ND	<0.01
Yellow plastic	ND	ND	<0.01
Purple plastic	ND	ND	<0.01

%DNOP	%DINP	%DIDP	PASS/FAIL
N/D	N/D	N/D	Pass
N/D	N/D	N/D	Pass
N/D	N/D	N/D	Pass

Note the samples were prepared as per the CPSIA requirements

N/D means "not detected".

DBP – Di-butyl phthalate
BBP – Butyl benzyl phthalate
DEHP – Bis-(2-ethylhexyl) phthalate
DNOP – Di-n-octyl phthalate
DINP – Di-iso-nonyl phthalate
DIDP – Di-iso-decyl phthalate

The detection limit for each of the six-listed phthalate esters was 0.001% w/w. All levels are given in percentages by weight (% w/w).

Comments – DBP, BBP and DEHP

This legislation applies to all plasticised toys and childcare articles. The maximum allowable limit for the summed total of these phthalates is 0.1% by mass of the plasticised material.

Comments – DNOP, DINP and DIDP

This legislation also applies to all plasticised toys and childcare articles that can be placed in the mouth by children. The maximum allowable limit for the summed total of these phthalates is 0.1% by mass of the plasticised material.

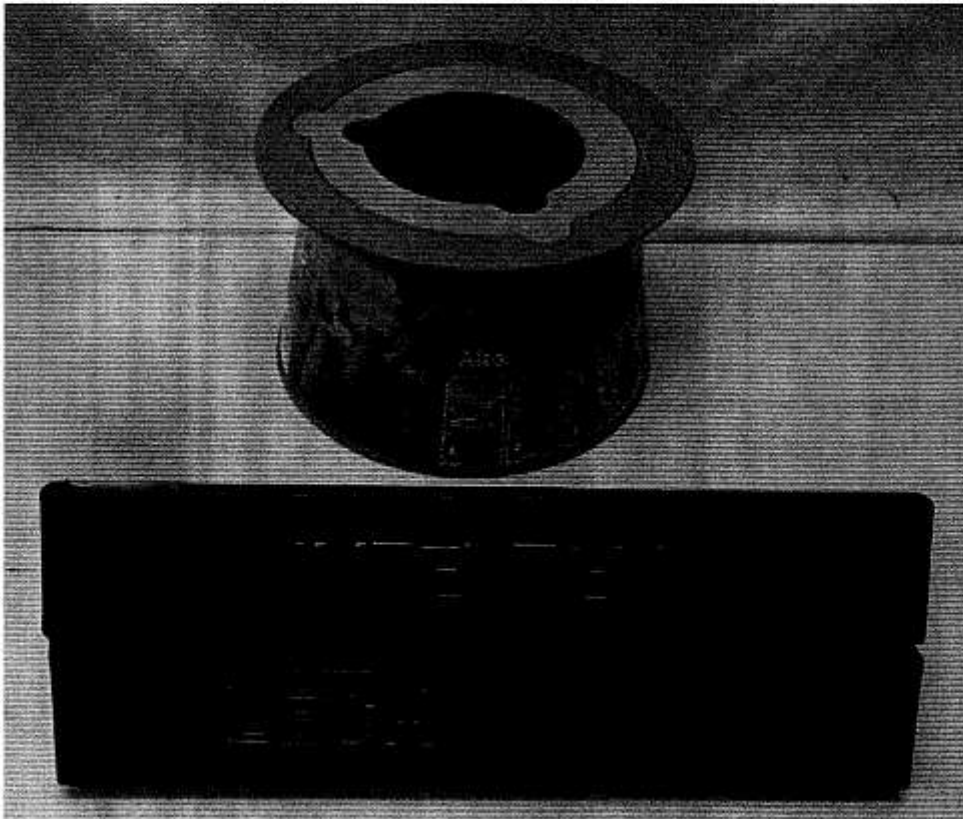
Conclusion

The item(s) are therefore deemed to **PASS** according to Annex XVII items 51 & 52 of EU Regulation 1907/2006 (REACH).

Date of Testing: 8th – 10th January 2014

TEST REPORT

NUMBER: LECH00346313E



END OF REPORT

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