

No. 2129153/JL

Date: May 22 2009

Page 1 of 4

NEW LEADER BATTERY IND. LTD. FLAT A, 4/F, BLOCK 1, CAMELPAINT BUILDING 62 HOI YUEN ROAD, KWUN TONG, KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as LR03 AAA SIZE 1.5 ALRALINE BATTERY LR6 AA SIZE 1.5 ALRALINE BATTERY

SGS Job No.

3061466

Sample Receiving Date

MAY 13 2009

Testing Period

MAY 13 – 19 2009

Test Requested

- 1) To determine Lead, Cadmium and Mercury Content in accordance with European Directive 2006/66/EC.
- 2) To determine Mercury content in accordance with the US Mercury-Containing Battery Management Act Public Law No 104-142 (1996).
- 3) To determine the Cadmium Content.
- 4) To determine the Lead Content.
- 5) To determine the Mercury Content.
- 6) To determine the Hexavalent Chromium Content.
- 7) Determination of PBBs (Polybrominated biphenyls), PBDEs (Polybrominated diphenylethers).

Test Method

- 1) Acid digestion followed by Atomic Absorption Spectrometry or Inductively Coupled Argon Plasma Spectrometry analysis.
- 2) Acid digestion, and then analyzed by Atomic Absorption or Inductively Coupled Argon Plasma Spectrometry.
- 3-5) With reference to SGS in-house method.

 Acid digestion, and then analyzed by Atomic Absorption Spectrometry or Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- 6) With reference to EPA Method 3060A & 7196A.

 The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).
- 7) With reference to EPA Method 3540C / 3550C. Analysis was performed by GC/MS or LC/MS.

Test Results

: Please refer to the next page(s).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS Hong Kong Ltd. | 5/F - 8/F, 12/F, 26/F & 28/F - 29/F., Metropole Square, 2 Un Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com



No. 2129153/JL

Date: May 22 2009

Page 2 of 4

Conclusion

1) The submitted samples comply with the heavy metals content requirements stated in European Directive 2006/66/EC.

2) The submitted battery samples comply with the Mercury content requirements stated in the US Mercury-Containing Battery Management Act Public Law No 104-142 (1996).

Signed for and on behalf of SGS Hong Kong Ltd.

Chan Yu Yan, Cyrus Section Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



No. 2129153/JL

Date: May 22 2009

Page 3 of 4

Test Results

1)

For portable batteries:

Test item	<u>1</u>	<u>2</u>	Labeling requirement	Regulatory limit
Lead (Pb)	< 0.001%	< 0.001%	> 0.004%	
Cadmium (Cd)	< 0.001%	< 0.001%	> 0.002%	0.002% ##
Mercury (Hg)	< 0.00001%	0.00019%	> 0.0005%	0.0005%

Sample Description:

- LR03 AAA SIZE 1.5 ALRALINE BATTERY
- LR6 AA SIZE 1.5 ALRALINE BATTERY

Note:

- 1. < = less than
- 2. % = percentage by weight
- ## = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems, medical equipments and cordless power tools.

2)

For battery except alkaline manganese button cell:

Test item Requirement Mercury (Hg) ND Absent #

Sample Description:

- LR03 AAA SIZE 1.5 ALRALINE BATTERY
- 2. LR6 AA SIZE 1.5 ALRALINE BATTERY

- 1. mg/cell = milligram per cell
- 2. ND = Not Detected
- Detection Limit = 0.1 ppm
- # = According to the US Mercury-Containing Battery Management Act, Public Law No. 104-142 (1996), battery should not contain mercury that was intentionally introduced.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

H18757318



No. 2129153/JL

Date: May 22 2009

Page 4 of 4

Test Results (Con't) :

Tes	st Item	<u>1</u>	<u>2</u>	Detection Limit	<u>Limit*</u>
3)	Cadmium (Cd)	ND	ND	5 mg/kg	100 mg/kg
4)	Lead (Pb)	ND	ND	5 mg/kg	1000 mg/kg
5)	Mercury (Hg)	ND	ND	5 mg/kg	1000 mg/kg
6)	Hexavalent Chromium (Cr 6+)	ND	ND	5 mg/kg	1000 mg/kg

7١

Flame Retardants	1	2	Detection Limit	Limit*
Polybrominated Biphenyls (PBBs) (Mono – Deca)	ND	ND	50 mg/kg	1000 mg/kg
Monobromobiphenyl	ND	ND	5 mg/kg	
Dibromobiphenyl	ND	ND	5 mg/kg	
Tribromobiphenyl	ND	ND	5 mg/kg	
Tetrabromobiphenyl	ND	ND	5 mg/kg	
Pentabromobiphenyl	ND	ND	5 mg/kg	
Hexabromobiphenyl	ND	ND	5 mg/kg	
Heptabromobiphenyl	ND	ND	5 mg/kg	
Octabromobiphenyl	ND	ND	5 mg/kg	
Nonabromobiphenyl	ND	ND	5 mg/kg	
Decabromobiphenyl	ND	ND	5 mg/kg	
Polybrominated Diphenylethers (PBDEs) (Mono – Deca)	ND	ND	50 mg/kg	1000 mg/kg
Monobromodiphenyl ether	ND	ND	5 mg/kg	
Dibromodiphenyl ether	ND	ND	5 mg/kg	
Tribromodiphenyl ether	ND	ND	5 mg/kg	
Tetrabromodiphenyl ether	ND	ND	5 mg/kg	
Pentabromodiphenyl ether	ND	ND	5 mg/kg	
Hexabromodiphenyl ether	ND	ND	5 mg/kg	
Heptabromodiphenyl ether	ND	ND	5 mg/kg	
Octabromodiphenyl ether	ND	ND	5 mg/kg	
Nonabromodiphenyl ether	ND	ND	5 mg/kg	
Decabromodiphenyl ether**	ND	ND	5 mg/kg	

Sample Description:

- LR03 AAA SIZE 1.5 ALRALINE BATTERY
- LR6 AA SIZE 1.5 ALRALINE BATTERY

Note: 1. mg/kg = ppm

2. ND = Not Detected

Remark:

- * = Quoted limit is referred to RoHS Directive 2002/95/EC and 2005/618/EC. According to the document of Frequently Asked Questions on RoHS and WEEE published from European Commission in May 2005, the battery does not apply to RoHS Directive.
- ** = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

H18757319