

TEST REPORT

LAB NO. : (6617)221-0860 DATE : August 14, 2017 PAGE : 1 OF 3

Applicant:

SUNNY LOAN TOP CO.,LTD

NORTH BUILDING NO.158 XIHE STREET, NINGBO, CHINA

Date of Submission: August 9, 2017

Test Period: August 9, 2017 to August 14, 2017 BV EE Ref. No.: XYR-17AU08-01CTSP-A0

Sample Description:

Sample(s) received is(are) stated to be:
Battery of Solar Flashlight

Manufacturer:

SUNNY LOAN TOP CO.,LTD

Buyer:

Style No(s):

SJ-8214

PO No.:

Country of Origin:

/ Country of Destination:

Oversea Country

Test Item(s): Details see page 2

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators –	PASS
European Council Directive 2006/66/EC with Latest Amendment up to Directive 2013/56/EU	TASS

REMARK

If there are questions or concerns on this report, please contact the following persons:

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BUREAU VERITAS

CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

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Analytical Lab Manager



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Sample Description Assigned by Laboratory:

ND = Not Detected (< MDL)

EX = Exempted

Test Item			Description	
1		Button cell		
Note:	mcg mg/ mg/ g/kg	gram(s) g = microgram(s) kg = milligram per kilogram L = milligram per litre g = gram(s) per kilogram L = Method Detection Limit	% = percentage 1 mg/kg = 0.0001% "<" = less than ">" = Greater than Req. = Requirement "-" = Not Regulated	

Photo of the Submitted Sample

NA = Not applicable





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TEST RESULT

<u>Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators – European Council Directive 2006/66/EC with Latest Amendment up to Directive 2013/56/EU</u>

Method: Sample was digested with acid mixture and then analyzed by Inductively Coupled Argon Plasma Spectrometer.

Parameter	Unit	Result	Maximum Allowable Limit
		1	
Total Lead (Pb)	% w/w	< 0.001	See comment if > 0.004 %
Total Cadmium (Cd)	% w/w	< 0.0005	0.002 %
Total Mercury (Hg)	% w/w	< 0.0001	0.0005 %
Conclusion	-	PASS	Please see comment for proper marking of the battery

Note: % w/w = percentage weight by weight

Comment:

1. Marking requirement:

According to 2006/66/EC, all batteries, accumulators and battery packs shall be appropriately marked with the symbol as below:



Covered area on battery, accumulator or battery pack

- Cylindrical cells: at least 1.5 % of surface area (maximum 5 × 5 cm)
- Others: at least 3 % of surface area of the largest side (maximum 5×5 cm)
- When the size of the battery, accumulator or battery pack is such that the symbol would be smaller than 0.5×0.5 cm, a symbol at least 1×1 cm shall be printed on the packaging. Symbols shall be printed visibly, legibly and indelibly
- 2. When the sample consists lead exceeding 0.004%, the product is to be labeled with heavy metal content with the requirements as below:
 - Mark with the chemical symbol for the metal concerned: Pb
 - Print beneath the symbol
 - Cover an area of at least ¼ of the size of the symbol

END