

Test Report

No. HKTEC2200569701

Date: 11 Feb 2022

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DONGGUAN YONGLUN ELECTRONICS CO., LTD.

NO.11 CHUANGYE ER. ROAD, HELU VILLAGE, HUANGJIANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : ALKALINE BATTERY (12V) MANGANESE

SGS Job No. : 4981226 - HK
Item No Given by Client : 23A & 27A (CHENER & NEUTRAL)
Supplier : DONGGUAN YONGLUN ELECTRONICS CO., LTD
Manufacturer : DONGGUAN YONGLUN ELECTRONICS CO., LTD
Country of Origin : CHINA
Date of Sample Received : 28 Jan 2022
Testing Period : 28 Jan 2022 - 11 Feb 2022
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).
Conclusion : The submitted battery sample does not exceed the limit mentioned in Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU.
The submitted battery sample complies with the Mercury content requirements of the US Mercury - Containing Battery Management Act Public Law No 104-142 (1996).

Signed for and on behalf of
SGS Hong Kong Limited.



Lam Ka Yung, Allen
Chemist

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	HKT22-005697.001	Battery

Remarks :

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

Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU– Heavy Metals Content in Batteries and Accumulators

Test Method : Acid digestion method-CTS-EC-109-1. Analysis was performed by ICP-OES/ICP-MS/AAS.
(Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	Limit	Unit	MDL	001
Lead (Pb)	-	%	0.0010	0.0018
Cadmium (Cd)	0.0020	%	0.0010	ND
Mercury (Hg)	0.0005	%	0.0001	ND
Conclusion	PASS			

Notes :

- (1) Results shown are of total weight of the battery sample.
- (2) According to the directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU, all types of battery shall include the chemical symbol Lead when containing more than 0.004% of Pb.
- (3) The submitted sample consists of 8 pieces of button cells.

US Public law 104-142

Test Method : Acid digestion method-CTS-EC-109-1. Analysis was performed by ICP-MS/AAS. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	Limit	Unit	MDL	001
Mercury (Hg)	25	mg/cell	0.1	ND
Conclusion	PASS			

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Notes :

1. According to US Mercury-containing Battery Management Act, Public Law No.104-142(1996) SEC 203 the limitation on mercury content in alkaline-manganese button cell shall be 25 milligrams per button cell
2. MDL(Method Detection Limit) = 0.1mg/kg
3. Results shown are of total weight of the battery sample

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Appendix 1

Category	Decision Rule Statement
1	<p>The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U95$) in ILAC-G8:09/2019 Clause 4.2.3.</p> <p>A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."</p> <p>B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%."</p> <p>C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%."</p> <p>D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.</p>
2	The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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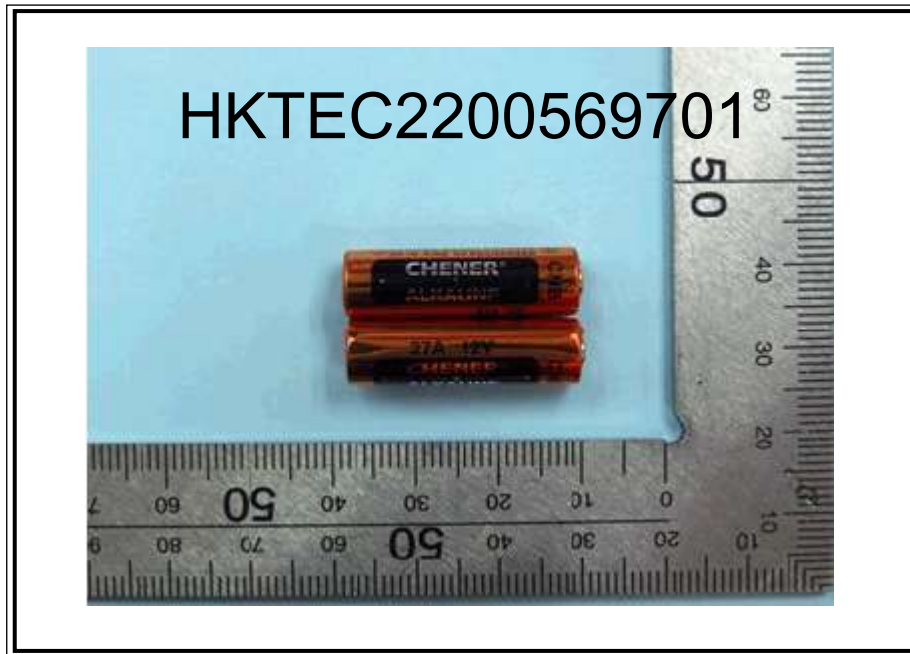
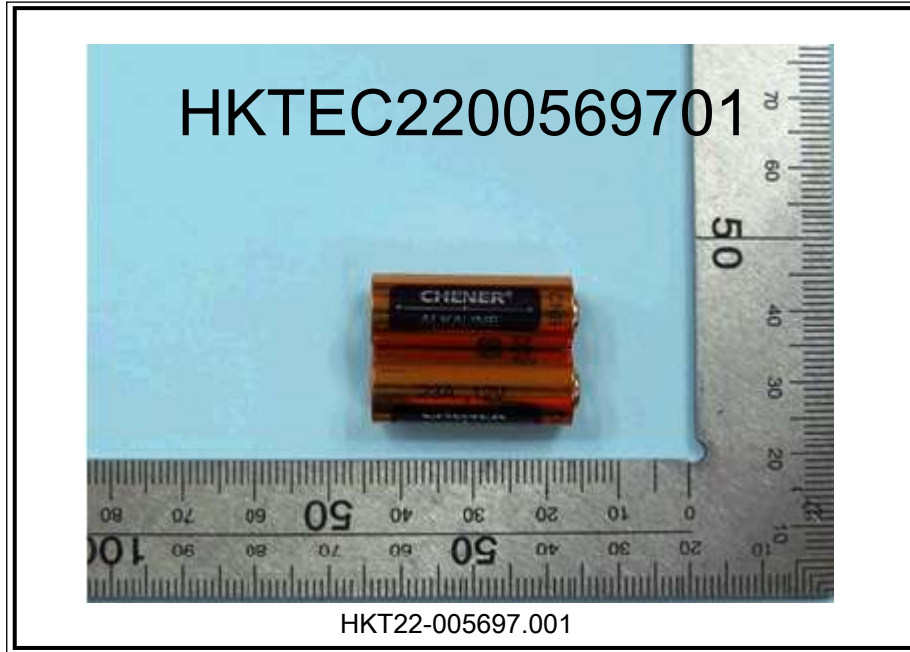
Test Report

No. HKTEC2200569701

Date: 11 Feb 2022

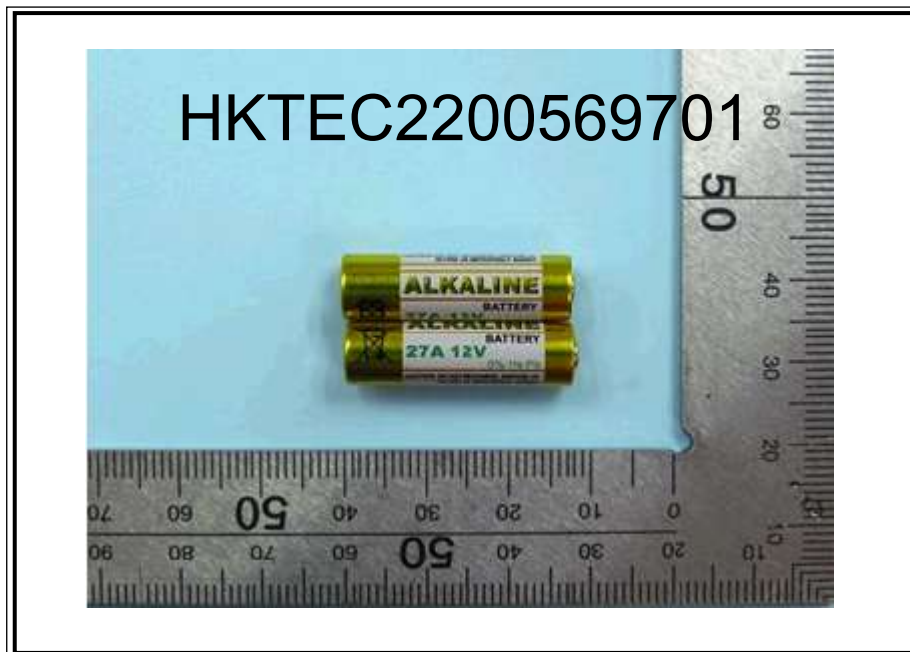
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Sample photo:



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*** End of Report ***

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货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

非限制性货物

样品名称： 碱性锌锰电池 23A

Sample Name: ALKALINE BATTERY 23A

委托单位： 东莞市驰彪电子有限公司
/

生产单位： 东莞市驰彪电子有限公司
/



Witness Better Life

SICIT 上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd



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West Guangfu Road, Shanghai, China.

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电话(Tel):(008621)31765555

邮箱(Email): center@ghs.cn

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货物运输条件鉴定书

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NO. 202300064224643

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样品名称 Sample Name	中文 Chinese	碱性锌锰电池 23A
	英文 English	ALKALINE BATTERY 23A
委托单位 Consignor	东莞市驰彪电子有限公司 /	
生产单位 Manufacturer	东莞市驰彪电子有限公司 /	
检验方法、程序 Inspection Methods and Procedures	国际海事组织《国际海运危险货物规则》(2020版) IMO International Maritime Dangerous Goods Code (2020 Edition)	
样品外观与气味 Appearance & Odor	金黄色, 白色双色不锈钢及贵金属外壳, 无臭 golden and whitesteel and precious material shell, odorless	
IDENTIFICATION 鉴定结论 CONCLUSION	<p>1. 危险性识别 (Hazards identification)</p> <p>无。 None.</p> <p>2. 海运按照IMO IMDG Code办理的类型 (Suggestion according to IMO IMDG Code)</p> <p>可按非限制性货物条件办理。 The substance is not subject to IMO IMDG Code.</p> <p>3. 包装类别 (Packing Group)</p> <p>无。 None.</p>	
	<p>检验日期: 2023-02-16 签发日期: 2023-02-16 生效日期: 2023-02-16</p> <p>Inspection Date: Issue Date: Effective Date:</p>	
备注 Comment	无。None.	

批准
Approver:

王泉

审核
Checker:

董学胜

主检
Appraiser:

何新明



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300064224643

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鉴定项目 Identification Items	鉴定结果 Identification Results
爆炸危险性鉴定 Identification of Explosive Hazards	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in Flammable Substances.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in Oxidizing Substances and Organic Peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于毒害品和感染性物质。 The product is not classified in Toxic and Infectious Substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in Radioactive Material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in Corrosives.
其他危险性鉴定 Identification of other Hazards	电池必须具有适当的防短路措施, 若是以电池为动力的装置、设备或车辆还须采取有效的防止意外启动措施。 The battery must be protected appropriately to prevent a short circuits and any battery powered device, equipment or vehicle must be effectively prepared to prevent unintentional activation.
-验证码:111181-	

有
检测
(C)

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报告结束



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

非限制性货物

样品名称：碱性锌锰电池 27A

Sample Name: ALKALINE BATTERY 27A

委托单位：东莞市驰彪电子有限公司
/

生产单位：东莞市驰彪电子有限公司
/



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The client must guarantee that samples and documents provided for appraisal are consistent with the goods to be transported. Otherwise, the client shall bear all legal responsibilities and other consequences due to it.
6. 本鉴定书的鉴定结论仅适用于最终收到的样品。
The conclusion of this certification only applies to the final sample as received.
7. 本鉴定书当年有效，铁路运输方式除外。特殊情况参见鉴定书备注。
The certification is valid in the year subscribed on it except when transported by rail. Please refer to the comment of certification on special occasion.
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The transportation mode of the goods shall be consistent with that in the appraisal conclusion. Different transportation modes may lead to different appraisal results.
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The authenticity of the certification can be verified by our website(www.ghs.cn)or the QR code in the certification.
11. 送检申请可登入本公司网站 www.ghs.cn 进行网上委托。
The application of the certification can be done via our website: www.ghs.cn.

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West Guangfu Road, Shanghai, China.

邮编(Post code): 200062

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邮箱(Email): center@ghs.cn

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货物运输条件鉴定书

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样品名称 Sample Name	中文 Chinese	碱性锌锰电池 27A
	英文 English	ALKALINE BATTERY 27A
委托单位 Consignor	东莞市驰彪电子有限公司 /	
生产单位 Manufacturer	东莞市驰彪电子有限公司 /	
检验方法、程序 Inspection Methods and Procedures	国际海事组织《国际海运危险货物规则》(2020版) IMO International Maritime Dangerous Goods Code (2020 Edition)	
样品外观与气味 Appearance & Odor	金黄色, 白色双色不锈钢及贵金属外壳, 无臭 golden and whitesteel and precious material shell, odorless	
IDENTIFICATION 鉴定结论 CONCLUSION	1. 危险性识别(Hazards identification) 无。 None.	
	2. 海运按照IMO IMDG Code办理的类项(Suggestion according to IMO IMDG Code) 可按非限制性货物条件办理。 The substance is not subject to IMO IMDG Code.	
	3. 包装类别(Packing Group) 无。 None.	
	<div> <div>检验日期: 2023-02-16 Inspection Date:</div> <div>签发日期: 2023-02-16 Issue Date:</div> <div>生效日期: 2023-02-16 Effective Date:</div> </div>	
备注 Comment	无。None.	

批准
Approver:

王军

审核
Checker:

董学胜

主检
Appraiser:

孙倩



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300164825101

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鉴定项目 Identification Items	鉴定结果 Identification Results
爆炸危险性鉴定 Identification of Explosive Hazards	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in Flammable Substances.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in Oxidizing Substances and Organic Peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于毒害品和感染性物质。 The product is not classified in Toxic and Infectious Substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in Radioactive Material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in Corrosives.
其他危险性鉴定 Identification of other Hazards	电池必须具有适当的防短路措施,若是以电池为动力的装置、设备或车辆还须采取有效的防止意外启动措施。 The battery must be protected appropriately to prevent a short circuits and any battery powered device, equipment or vehicle must be effectively prepared to prevent unintentional activation.
-验证码:532870-	



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报告结束



货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

非限制性货物

样品名称： 碱性锌锰电池 23A

Sample Name: ALKALINE BATTERY 23A

委托单位： 东莞市驰彪电子有限公司
/

生产单位： 东莞市驰彪电子有限公司
/



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网址(Website): www.ghs.cn

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300764124642

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样品名称 Sample Name	中文 Chinese	碱性锌锰电池 23A	
	英文 English	ALKALINE BATTERY 23A	
委托单位 Consignor	东莞市驰彪电子有限公司 /		
生产单位 Manufacturer	东莞市驰彪电子有限公司 /		
检验方法、程序 Inspection Methods and Procedures	国际航空运输协会《危险品规则》64版 IATA Dangerous Goods Regulations (DGR) 64th Edition		
样品外观与气味 Appearance & Odor	金黄色, 白色双色不锈钢及贵金属外壳, 无臭 golden and whitesteel and precious material shell, odorless		
I D E N T I F I C A T I O N 鉴 定 结 论 C O N C L U S I O N	1. 危险性识别 (Hazards identification) 无。 None.		
	2. 空运按照IATA DGR办理的类项 (Suggestion according to IATA DGR) 根据特殊规定A123, 可按非限制性货物条件办理。 The substance is not subject to IATA DGR according to special provision A123.		
C O N C L U S I O N 鉴 定 结 论 C O N C L U S I O N	3. 包装类别 (Packing Group) 无。 None.		
	检验日期: 2023-02-16 签发日期: 2023-02-16 生效日期: 2023-02-16 Inspection Date: Issue Date: Effective Date:		
备注 Comment	无。None.		

批准
Approver:

王军

审核
Checker:

董学胜

主检
Appraiser:

陈新明



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300764124642

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鉴定项目 Identification Items	鉴定结果 Identification Results
爆炸危险性鉴定 Identification of Explosive Hazards	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in Flammable Substances.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in Oxidizing Substances and Organic Peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于毒害品和感染性物质。 The product is not classified in Toxic and Infectious Substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in Radioactive Material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in Corrosives.
其他危险性鉴定 Identification of other Hazards	电池必须具有适当的防短路措施,若是以电池为动力的装置、设备或车辆还须采取有效的防止意外启动措施。 The battery must be protected appropriately to prevent a short circuits and any battery powered device, equipment or vehicle must be effectively prepared to prevent unintentional activation.
-验证码:632264-	

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

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报告结束



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

非限制性货物

样品名称： 碱性锌锰电池 27A

Sample Name: ALKALINE BATTERY 27A

委托单位： 东莞市驰彪电子有限公司
/

生产单位： 东莞市驰彪电子有限公司
/



Witness Better Life

SICIT 上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd



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货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300764325800

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样品名称 Sample Name	中文 Chinese	碱性锌锰电池 27A
	英文 English	ALKALINE BATTERY 27A
委托单位 Consignor	东莞市驰彪电子有限公司 /	
生产单位 Manufacturer	东莞市驰彪电子有限公司 /	
检验方法、程序 Inspection Methods and Procedures	国际航空运输协会《危险品规则》64版 IATA Dangerous Goods Regulations (DGR) 64th Edition	
样品外观与气味 Appearance & Odor	金黄色, 白色双色不锈钢及贵金属外壳, 无臭 golden and whitesteel and precious material shell, odorless	
IDENTIFICATION 鉴定结论 CONCLUSION	1. 危险性识别 (Hazards identification) 无。 None.	
	2. 空运按照IATA DGR办理的类项 (Suggestion according to IATA DGR) 根据特殊规定A123, 可按非限制性货物条件办理。 The substance is not subject to IATA DGR according to special provision A123.	
	3. 包装类别 (Packing Group) 无。 None.	
	<div> <div>检验日期: 2023-02-16 Inspection Date:</div> <div>签发日期: 2023-02-16 Issue Date:</div> <div>生效日期: 2023-02-16 Effective Date:</div> </div>	
备注 Comment	无。None.	

批准
Approver:

王军

审核
Checker:

董学胜

主检
Appraiser:

孙清



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 202300764325800

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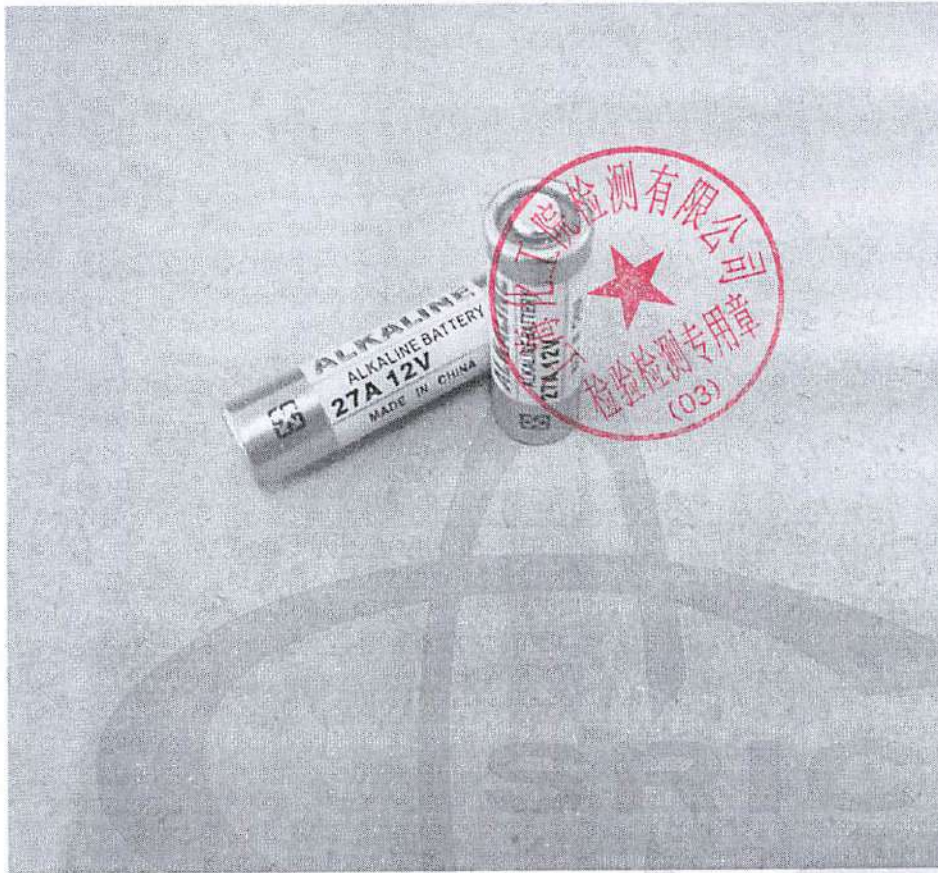
鉴定项目 Identification Items	鉴定结果 Identification Results
爆炸危险性鉴定 Identification of Explosive Hazards	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in Flammable Substances.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in Oxidizing Substances and Organic Peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于毒害品和感染性物质。 The product is not classified in Toxic and Infectious Substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in Radioactive Material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in Corrosives.
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货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

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报告结束

Material Safety Data Sheet (MSDS)

Samples Name: Alkaline zinc-manganese battery 23A/Alkaline zinc-manganese battery 27A

Client Name : DONGGUAN CHIBIAO ELECTRONICS CO. LTD

Client Address: BUILDING 1, COMPREHENSIVE DEVELOPMENT ZONE, HENGLI TOWN, DONGGUAN CITY



Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

Fair Lu

Lu Jian Fei, Fair
Report writer

REVIEWED BY:

Sunshine Liu

Liu Xiao Fang, Sunshine
Report Reviewer

APPROVED BY:

Will Pan

Pan Jian Ding, Will
Technical Supervisor

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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Samples Name: Alkaline zinc-manganese battery 23A/Alkaline zinc-manganese battery 27A

Client Name : DONGGUAN CHIBIAO ELECTRONICS CO. LTD

Client Address: BUILDING 1, COMPREHENSIVE DEVELOPMENT ZONE, HENGLI TOWN, DONGGUAN CITY

Export to: European Union United States

Contact Person : ZHONGTAO

E-MAIL: 270127434@qq.com

Tel: 13686632344

Section 2 - Hazards Identification

Hazards Description: Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.

Invasion route:

Skin contact: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

Eye contact: Eye contact with contents of an open battery can cause severe irritation or burns to the eyes.

Inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.

Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract..

Health hazards: The battery pack is stored in a sealed tank. When the battery or the occurrence of mechanical collisions are likely to lead to the leakage of chemical substances in the battery. Skin and eyes should avoid contact with electrolyte or extruded battery.

Environment hazards: Ingredients contained or their ingredients products could be harmful to environment.

Burn & burst danger: Don't throw the battery away from the fire - it will cause an explosion. Do not cause the battery to short - can cause burning.

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Section 3 - Composition/Information on Ingredient

Substance ☐ Admixture ☒

Chemical composition:

Name of constituent material	About percentage of the total weight	Name of constituent substance	CAS No.	Percentage of material
Shell	17.50%	Tinplate	--	100%
Operculum	37.50%	Sheet Iron	--	100%
Diaphragm	0.40%	Polypropylene	9003-07-0	100%
Cathode	11.00%	Zinc Powder	7440-66-6	97%
Positive Pole	23.00%	Manganese Dioxide	1313-13-9	88%
Pure Water	--	--	--	--
Electrolyte	7.10%	Potassium Hydroxide	1310-58-3	40%
Sealing Washer PVC Piece	2.50%	Nylon/PVC	--	100%
Insulating piece	1.00%	PEC film	--	100%

Note: CAS Number Is Chemical Abstract Service Registry Number

Section 4- First Aid Measures

Skin touch: Remove contaminated clothes and rinse skin with plenty of water or shower for Remove 15 minutes. Get medical aid.

Eyes touch: Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.

Inhalation: Remove source of contamination or move victim to fresh air. Obtain medical advice.

Ingestion: Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional personage. Please seek medical treatment in time..

Section 5 - Fire Fighting Measures

Danger characteristic: Toxic fumes, gases or vapors may evolve on burning.

Hazardous combustion products: Carbon monoxide, carbon dioxide and so on.

Fire-Fighting method & media: The firemen should put on antigas masks and full fire-fighting suits which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Avoid using direct streams of water of foam on molten burning material as it may scatter and spread the fire. Fire extinguishing agent: Please use dry powder fire extinguisher and other proper fire extinguishing media.

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Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.

Environment precautions: Prevent material from contaminating soil and from entering sewers or waterways..

Methods and materials for Containment: Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.

Methods and materials for cleaning up: Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper

Section 7 - Handling and Storage

Handling: Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery.

Storage: Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children. Do not expose the battery to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials.

Section 8 - Exposure Controls, Personal Protection

Maximum admissible concentration: No standard yet

Monitoring Method: None.

Engineering Control: No engineering controls are required for handling batteries that have not been damaged. Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses.

Personal Protective Equipment:

Respiratory Protection: In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use.

Eyes Protection: None required under normal conditions. Use approved chemical work safety goggles or face shield, if handling a leaking or rupture cell.

Skin Protection: No necessary under normal use. Use rubber apron and protective working in case of handling of a rupture cell.

Hands Protection: Not necessary under conditions of normal use.

Other Protective Clothing or Equipment: Not necessary under conditions of normal use. Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

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Section 9 - Physical and Chemical Properties

Appearance: Solid

Odour: Odorless

pH: Not applicable

Flashpoint: Not applicable

Flammability: Not applicable

Relative density: Not applicable

Solubility(water): Not applicable

Solubility(Other): Not applicable

Section 10 - Stability and Reactivity

Stability: Stable under normal temperatures and pressures..

Distribution of Ban: Strong oxidizing agents, reducing agents, acids and bases.

Conditions to Avoid: Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions..

Hazardous Polymerization: None.

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

Possibility of Hazardous Reaction: If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

Section 11 - Toxicological Information

Acute Toxicity: Not applicable.

Sub-acute and Chronic Toxicity: Not applicable.

Irritation: In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin..

Sensitization: Not applicable.

Mutagenicity: Not applicable.

Carcinogenicity: Not applicable.

Others: Not applicable.

Section 12 - Ecological Information

General note: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Eco-toxicity: Not applicable.

Biodegradable: Not applicable.

Non-biodegradable: Not applicable.

Bioconcentration or biological accumulation: Not applicable.

Other harmful effects: Not applicable.

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Section 13 - Disposal Considerations

Waste Treatment: Recycle or dispose of in accordance with government, state & local regulations.

Attention for Waste Treatment: Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

Section 14 - Transport Information

According to IATA Dangerous Goods Regulations (DGR) 64th Edition(2023), Examples of such batteries are: Alkali -manganese, zinc-carbon and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent:

- (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and
- (b) accidental activation.

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by "Not Dangerous Goods" , when an Air Waybill is issued.

UN number of Batteries, dry: N/A

UN Proper shipping name/Description(technical name): Batteries, dry

UN Classification(Transport hazard class): N/A

Packing group: N/A

The battery is not restricted according to IMO IMDG Code (IMDG Rules) 40-22 Amendment,2022.

Hazards identification: None

Suggestion according to IMO IMDG Code: The substance is not subject to IMO IMDG Code.

Section 15 - Regulatory Information

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.
- The International Maritime Dangerous Goods (IMDG) Code.
- The Office of Hazardous Materials Safety within the US Department of Transportation(DOT)
- Research and Special Programs Administration (RSPA)

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Section 16 - Additional Information

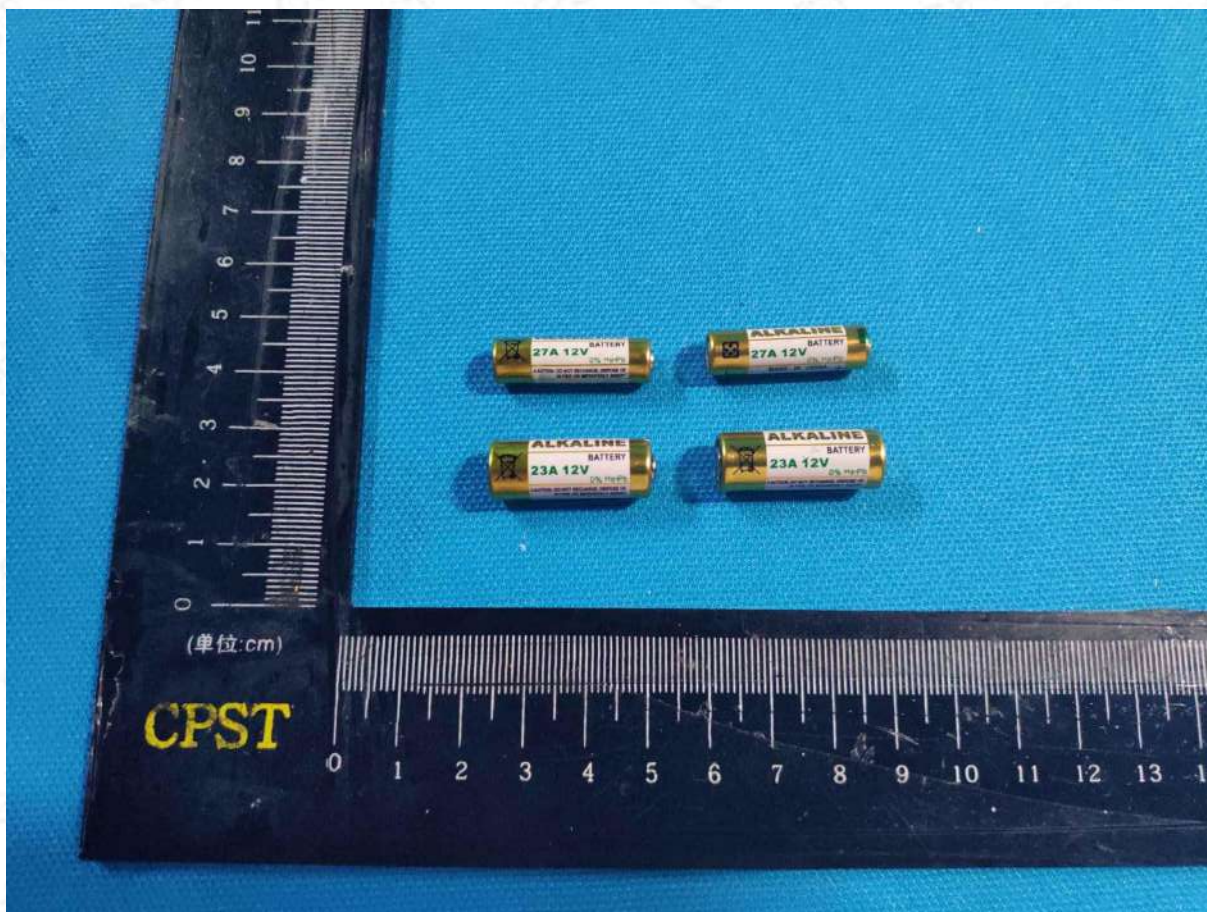
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The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

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Photo of the Submitted Sample



Declaration: Report C230207069001-1 was repealed and replaced by Report C230207069001-1A.

*** End of Report ***

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