1X52-250400003
Art. 45055

PRODUCT SAFETY DATA SHEET

Document number: PSDS__CR_CC23.12

The batteries are exempt articles and are not subject to the OSHA Hazard Communication Standard Requirement. This sheet is only provided as technical information and is referred normal use of the product in question. ChaoChuang makes no warranty expressed or implied.

Section 1-Product and Company Identification

● Product Name Lithium button battery (CR)	Sizes All	Date of preparation Jan. 1st, 2025
● Company: CHANGZHOU JINTAN CHAOCHUANG BATTERY CO.,LTD.	Telephone Numbers: +86-519-82483588	
● Address: Xiyang Industrial Zone, Xuebu Town, Jintan City, Jiangsu Province, China	Fax Numbers: +86-519-82485336	

Section 2-Composition/Information on Ingredients

Ingredient	CAS#	Content(wt%)
Stainless Steel	12597-68-1	45 to 60
Manganese Dioxide	1313-13-9	15 to 40
Propylene Carbonate	108-32-7	2 to 6
1,2-Dimethoxyethane	110-71-4	1 to 5
1,3-Dioxolane	646-06-0	1 to 5
Lithium Perchlorate	7791-03-9	0 to 1.5
Lithium or Lithium Alloy	7439-93-2	1 to 5
Graphite	7782-42-5	1 to 4
Polypropylene	9003-07-0	3 to 10
Glass Fiber	65997-17-3	1 to 2
Pb	7439-92-1	<0.0040
Hg	7439-97-6	<0.0005
Cd	7440-43-9	<0.0020

*) Lithium content for each cell

NA=Not Applicable

Model	Li content(g)	Model	Li content(g)
CR1625	0.025	CR2032	0.065
CR2016	0.025	CR2430	0.090
CR2025	0.048	CR2450	0.165
CR1632	0.038	CR1220	0.012
CR1620	0.030	CR1216	0.007
CR1616	0.016	CR927	0.008
CR1025	0.008	CR2477	0.290
CR1225	0.015	CR3032	0.170
CR2325	0.060	CR2320	0.045
CR2330	0.072	CR2354	0.155
CR2335	0.090	CR2050	0.110
CR2020	0.031	CR920	0.007
CR2432	0.100	CR2040	0.091

Section 3-Hazards Identification

This contains lithium, organic solvent, and other combustible materials. For this reason, improper handling of the battery could lead to distortion, leakage*, overheating, explosion ,or fire and cause human injury or equipment trouble. Please strictly observe safety instructions.

(*leakage is defined as an unintended escape of liquid from a battery.)

Section 4-First Aid Measures

None unless internal materials exposure. If contents are leaked out, observe following instructions

Inhalation Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.

Skin Immediately flush skin with plenty of water. If itch or irritation by chemical burn persists, consult a physician.

Eyes Immediately flush eye with plenty of water for at least 15 minutes. Consult a physician immediately

Ingestion	If swallowing a battery, consult a physician immediately. If contents come into mouth, immediately rinse by plenty of water and consult a physician.

Section 5-Fire Fighting Measures

Extinguishing Media	Extinguisher of alkaline metal fire is effective. Plenty of cold water is also effective to cool the surrounding area and control the spread fire. But hydrogen gas may be evolved by the reaction of water and lithium and it can form an explosive mixture. Therefore in the case that lots of lithium batteries are burning in a confined space, use a smothering agent.
Fire fighting procedure	Use self-contained breathing apparatus and full protective gear not to inhale harmful gas.

Section 6-Accidental Release Measures

NA

Section 7-Handling and Storage

1) Handing

Never swallow. Never charge. Never hear. Never expose to open flame. Never disassemble. Never reverse the positive and negative terminals when mounting. Never short-circuit the battery. Never weld the terminal or wire to the body of the battery directly. Never use different batteries together. Never touch the liquid leaked out of battery. Never bring fire close to battery liquid. Never keep in touch with battery.

2) Storage

Never let the battery contact with water. Never store the battery in hot and high humid place.

Section 8-Exposure Controls, Personal Protection

Respiratory Protection		NA
Ventilation	Local Exhaust	NA
	Mechanical	NA
	Special	NA
	Other	NA
		NA
		NA
		NA

NA=Not Applicable

Eye Protection
Protective Glove
Other protective clothing

Section 9-Physical/Chemical Characteristics

NA

Section 10-Stability and Reactivity

Stability	Stable
Incompatibility	Water
Hazardous polymerization	Will not occur
Condition to avoid	See section 7.
Hazardous Decomposition or Byproducts	Hydrogen

Section 11-Toxicological Information

NA

Section 12-Ecological Information

NA

Section 13-Disposal condition

The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation. As electric capacity is left in a discarded battery and it comes into contact with other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+)and (-) terminals with friction tape or some other insulator before disposal.

Section 14-Transportation Information

Shipping Name (UN Number) lithium metal batteries(UN3090)
lithium metal batteries packed with equipment(UN3091)
lithium metal batteries contained in equipment(UN3091)

Hazard Classification class 9 (Miscellaneous)

Organizations governing the transport of lithium batteries

Area	Method	Organization	Special Provision
International	Air	IATA,ICAO	Packing instruction 968 section IB
International	Marine	IMO	SP188
U.S.A	Air, Rail, Road, Marine	DOT	49 CFR Section

NA=Not Applicable

			173.185

Their regulations are based on the UN Recommendations. Each special provision provides specifications on exceptions and packaging for lithium metal batteries shipping. The products can be transported as "Non Dangerous Goods" when they meet the requirements of packing instruction 968 Section IB of IATA-DGR(66th Edition)or SP188 of IMDG Code (Amdt. 41-22).

Section 15-Regulatory Information

Major applicable regulations for the transportation of lithium metal cells and batteries are as follows:

- UN Model Regulations: United Nations ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3, Recommendations on the Transport of Dangerous Goods
- International Civil Aviation Organization(ICAO):Technical instructions for the Safe Transport of Dangerous Goods by Air, 2022 edition
- International Air Transport Association(IATA): Dangerous Goods Regulations, PI 968 section IB, 66th Edition
- International Maritime Organization(IMO): International Maritime Dangerous Goods(IMDG) Code,(Amdt. 41-22) 2022 edition

Section 16-Other Information

If you want further information, please contact ChaoChuang sales representative

NA=Not Applicable

海 运
By Sea

NO.212500209709474

中国认可
检验
INSPECTION
CNAS IB0071

运输危险性鉴定书

Hazard Classification and Identification Report for Transport of Goods

锂电池类物品

样品名称 ： 锂-二氧化锰扣式电池 CR2032 3V 210mAh

Sample name: Lithium-MnO2 button battery CR2032 3V 210mAh

委托单位 ： 常州金坛超创电池有限公司
CHANGZHOU JIN TAN Chao Chuang Battery Co., Ltd

生产单位 ： 常州金坛超创电池有限公司
CHANGZHOU JIN TAN Chao Chuang Battery Co., Ltd

上海化工院检测有限公司 检验检测专用章

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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Hazard Classification and Identification Report for Transport of Goods

NO. 212500209709474

样品名称 Sample Name	中文 Chinese	锂-二氧化锰扣式电池 CR2032 3V 210mAh
	英文 English	Lithium-MnO2 button battery CR2032 3V 210mAh
委托单位 Applicant		常州金坛超创电池有限公司 CHANGZHOU JIN TAN Chao Chuang Battery Co., Ltd
生产单位 Manufacturer		常州金坛超创电池有限公司 CHANGZHOU JIN TAN Chao Chuang Battery Co., Ltd
检验方法、程序 Inspection method and procedure		国际海事组织《国际海运危险货物规则》（2022版） IMO International Maritime Dangerous Goods Code (2022 Edition)
样品外观 Sample appearance		银色钮扣状金属外壳 Silvery Button metal shell
包装件信息 Package information		重量≤30kg。 weight≤30kg.

序号 NO.	电池种类 Battery type	型号 Model	容量Capacity /锂含量Li content	放置方式 Placement
1	不可充电锂金属电池芯 Primary Li-metal cell	CR2032	210mAh / ≤0.3g	电池单独运输 Battery only

鉴定结论 IDENTIFICATION CONCLUSION

1. 危险性识别(Hazards identification)

锂金属电池。

Lithium metal battery.

2. 海运按照国际海事组织《国际海运危险货物规则》办理的类项(Suggestion according to IMO IMDG Code)

根据特殊规定188，该物品不受IMO IMDG Code其他条款限制。

The article is not subject to other provisions of IMO IMDG Code according to special provision 188.

3. 包装要求(Packaging requirements)

无。

None.

检验日期: Inspection Date: 2024-12-16　签发日期: Issue Date: 2024-12-16　生效日期: Effective Date: 2025-01-01

备注 Comment	/

批准 Approver: 王宝　审核 Checker: 董学胜　主检 Appraiser: 张新明

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Hazard Classification and Identification Report for Transport of Goods

NO. 212500209709474

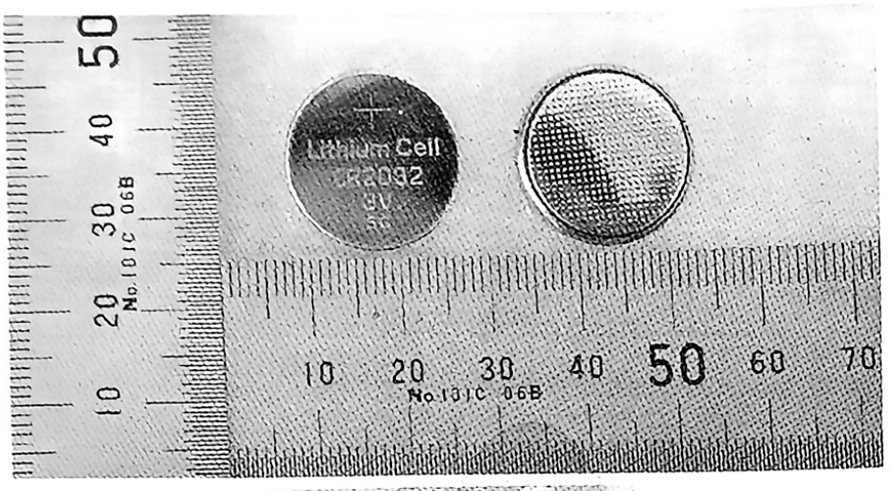
序号 No.	检验结果及其他事项 Inspection results and other things
1	本鉴定书所述锂电池按照《国际海运危险货物规则》(2022版) 2.9.4.5规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the quality management program described in IMDG CODE 2022 EDITION 2.9.4.5 .
2	本鉴定书所述锂电池已通过联合国《试验和标准手册》第III部分38.3小节相应测试要求。 包装件能够承受1.2m跌落试验。 Lithium cells and batteries listed in this report are of the types proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. The package has passed the 1.2m drop test. UN38.3试验概要编号 The UN38.3 Test Summary No.(s) 811900200066267 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information.
3	锂电池完全封装在内包装内，位于坚固的外包装中。 Lithium cells and batteries are packed in inner packagings that completely enclose the cell or battery and placed in a strong outer packaging.
4	电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.
5	每个包装件必须标示恰当的锂电池标记。 装有锂电池的包装件，符合国际民航组织《危险物品安全航空运输技术细则》第4部分第II章的包装说明965或968第IB部分规定的，黏贴5.2.1.10(锂电池标记)和5.2.2.2所示的9A型标签，应视为符合本特殊规定188的规定。注：《国际海运危险货物规则》(2020版)5.2.1.10中显示电话号码附加信息的锂电池标记，可继续使用至2026年12月31日。 Each package shall be marked with the appropriate lithium battery mark. Packages containing lithium batteries packed in conformity with the provisions of part 4, chapter II, packing instructions 965 or 968, section IB of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by air that bear the mark as shown in 5.2.1.10(lithium battery mark) and the label shown 5.2.2.2, Model No.9A shall be deemed to meet the provisions of this special provision 188. Note: The mark shown in 5.2.1.10(lithium battery mark) of the IMDG CODE 2020 EDITION, showing the telephone number for additional information, may continue to be applied until 31 December 2026.
6	/
7	/

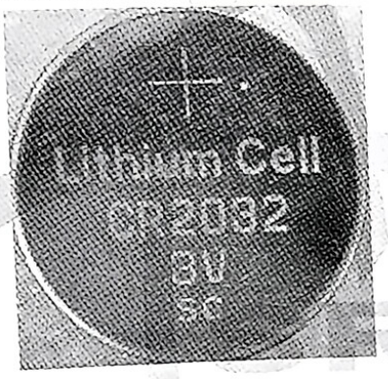
-验证码:283877-

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Hazard Classification and Identification Report
for Transport of Goods





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上海化工院检测有限公司
检验检测专用章
(05)

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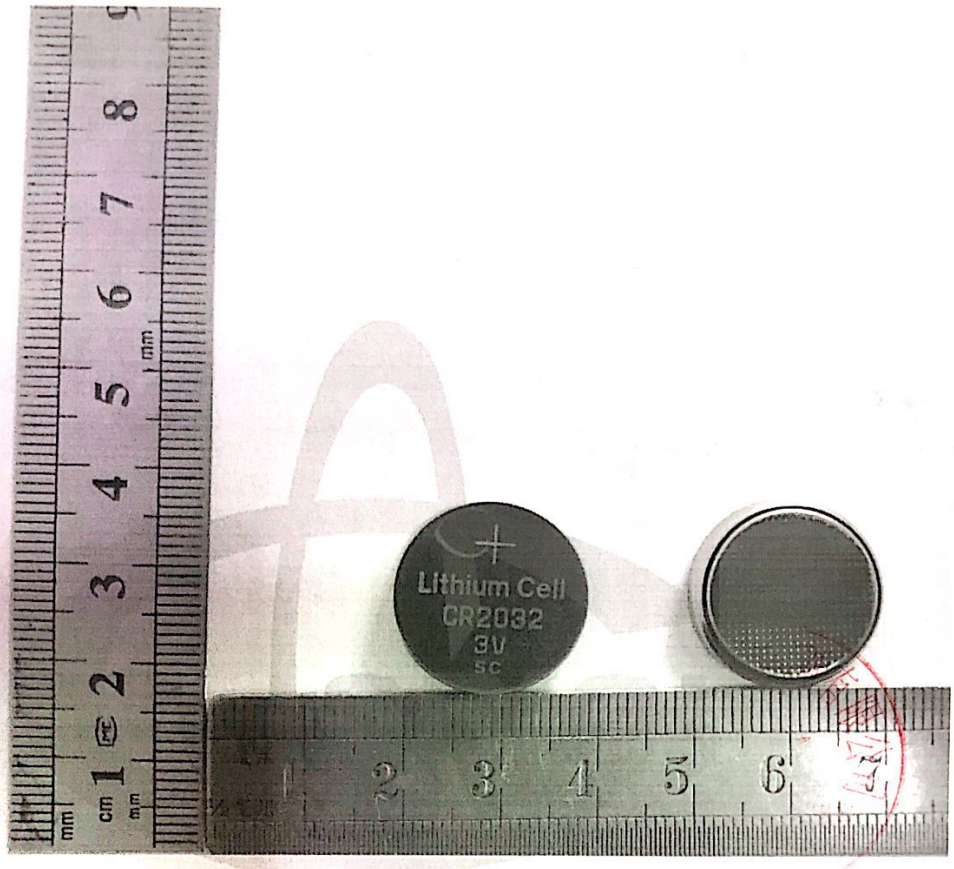
UN38.3 试验概要
UN38.3 Test Summary

811900200066267

单位信息 Company information			
委托单位 Consignor	常州金坛超创电池有限公司 CHANGZHOU JIN TAN Chao Chuang Battery Co.，Ltd 江苏省金坛区茅麓镇西阳村 Xiyang Village, Maolu Town, Jintan,Jiang Su 051982483588 boss@chaochuang.com www.chaochuang.com		
生产单位 Manufacturer	常州金坛超创电池有限公司 CHANGZHOU JIN TAN Chao Chuang Battery Co.，Ltd 江苏省金坛区茅麓镇西阳村 Xiyang Village, Maolu Town, Jintan,Jiang Su 051982483588 boss@chaochuang.com www.chaochuang.com		
测试单位 Test lab	威凯检测技术有限公司 Vkan Certification & Testing Co., Ltd.(CVC) 广州市萝岗区天泰一路 3 号 No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. China 020-32293851 dengjz@cvc.org.cn http://www.cvc.org.cn		
电池信息 Battery information			
名称 Name	锂-二氧化锰扣式电池	品牌 Brand	/
型号 Type	CR2032	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	3	容量/能量 Capacity/energy	210mAh
描述 Description	不可充电锂金属电池芯 Primary Li-metal cell	锂含量(g) Li content	0.06
质量(kg) Mass	0.00297	外观 Appearance	银色钮扣状金属外壳 Silvery button metal shell
测试信息 Test information			
原报告编号 Original test report No.	RZUN2015-0019	测试报告日期 Date of test report	2015-01-08
测试标准 Test standard	联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria 38.3		ST/SG/AC.10/11/Rev.5/Amend.1&Amend.2
T.1 高度模拟 Altitude simulation	合格 Passed	T.2 温度测试 Thermal test	合格 Passed
T.3 振动测试 Vibration	合格 Passed	T.4 冲击测试 Shock	合格 Passed
T.5 外部短路 External short circuit	合格 Passed	T.6 挤压 Crush	合格 Passed
T.7 过度充电 Overcharge	/	T.8 强制放电 Forced discharge	合格 Passed
38.3.3 (f)	/	38.3.3 (g)	/

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样品图片 Sample Picture



结论 Conclusion	测试样品符合联合国《关于危险货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.5/Amend.1&Amend.238.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.5/Amend.1&Amend.2 38.3
备注 Remark	/

签名 Signature 职务 Title	王寅 副总工程师 Vice chief engineer	签发日期 Issued date	2020-01-08

-验证码:506405-

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