

Test Report

No. CANEC2124864816

Date: 19 Jan 2022

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DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO., LTD.

HENGTAI BUILDING ,MIDDLE ROAD OF DONGCHENG,GUANCHENG DISTRICT,DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Button cell

SGS Job No. : CP21-069501 - SZ

Model No. : CR2032 GT

Client Ref. Info. : CR927.CR1025.CR1130.CR1212.CR1216.CR1220.CR1225.CR1616.
CR1620.CR1625.CR1632.CR2016.CR2020.CR2025.CR2032.CR2032
Guante Cell CR2320.CR2325.CR2330.CR2332.CR2354.CR2430.
CR2450.CR2477.CR3032.CR123A.CR2.CR-P2.2CR5.CR34615.CR322.
CR425.CR435.CR525.CR535

Date of Sample Received : 30 Dec 2021

Testing Period : 30 Dec 2021 - 12 Jan 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).

Result Summary :

Test Requested	Conclusion
European Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU- Heavy Metals Content in Batteries and Accumulators	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessie Li

Jessie Li

Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center, Chemical Laboratory.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

198 Kezhu Road, Sci-Tech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555

www.sgs.com

t (86-20) 82155555

sgs.china@sgs.com

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-248648.008	Button cell

Remarks :

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

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

Test Method : SGS In House Method (GZTC CHEM-TOP-068), analysis was performed by ICP-OES or AAS or Hg-analyzer.

Test Item(s)	Limit	Unit	MDL	008
Cadmium (Cd)	0.0020	%(w/w)	0.0010	ND
Lead (Pb)	-	%(w/w)	0.0010	ND
Mercury (Hg)	0.0005	%(w/w)	0.0001	ND
Comment	Pass			

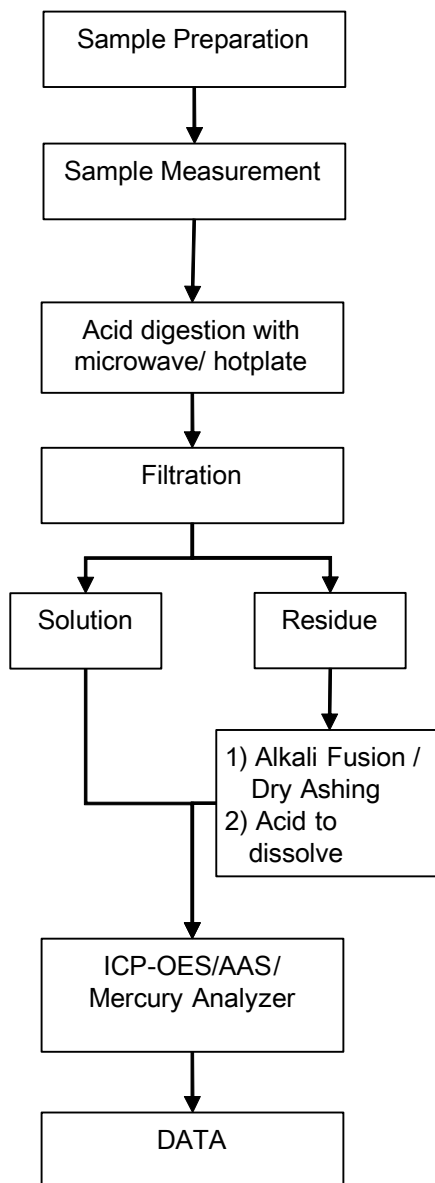
Notes :

- (1) Results shown are of total weight of the battery sample.
- (2) According to the European 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.



ATTACHMENTS

Battery Testing Flow Chart



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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***





货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

锂电池类货物

样品名称： 锂-二氧化锰扣式电池 CR2032 3.0V 210mAh

Sample name: LiMnO₂ Battery CR2032 3.0V 210mAh

委托单位： 东莞市莞特电子科技有限公司
DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO., LTD.

生产单位： 东莞市莞特电子科技有限公司
DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO., LTD.



Witness Better Life

SICIT 上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd



货物运输条件鉴定书

NO. 212300606507219

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样品名称 Sample Name	中文 Chinese	锂-二氧化锰扣式电池 CR2032 3.0V 210mAh		
	英文 English	LiMnO2 Battery CR2032 3.0V 210mAh		
委托单位 Consignor		东莞市莞特电子科技有限公司 DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.		
生产单位 Manufacturer		东莞市莞特电子科技有限公司 DONGGUAN GUANTE ELECTRONICS TECHNOLOGY 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》(2020版) IMO International Maritime Dangerous Goods Code (2020 Edition)		
样品外观 Sample appearance		银色金属外壳 Silvery 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.			
	<div> <div>检验日期: 2022-12-08</div> <div>签发日期: 2022-12-08</div> <div>生效日期: 2023-01-01</div> <div>Inspection Date:</div> <div>Issue Date:</div> <div>Effective Date:</div> </div>			
备注 Comment				

批准
Approver: 王宗

审核
Checker: 董学胜


主检
Appraiser: 孙清



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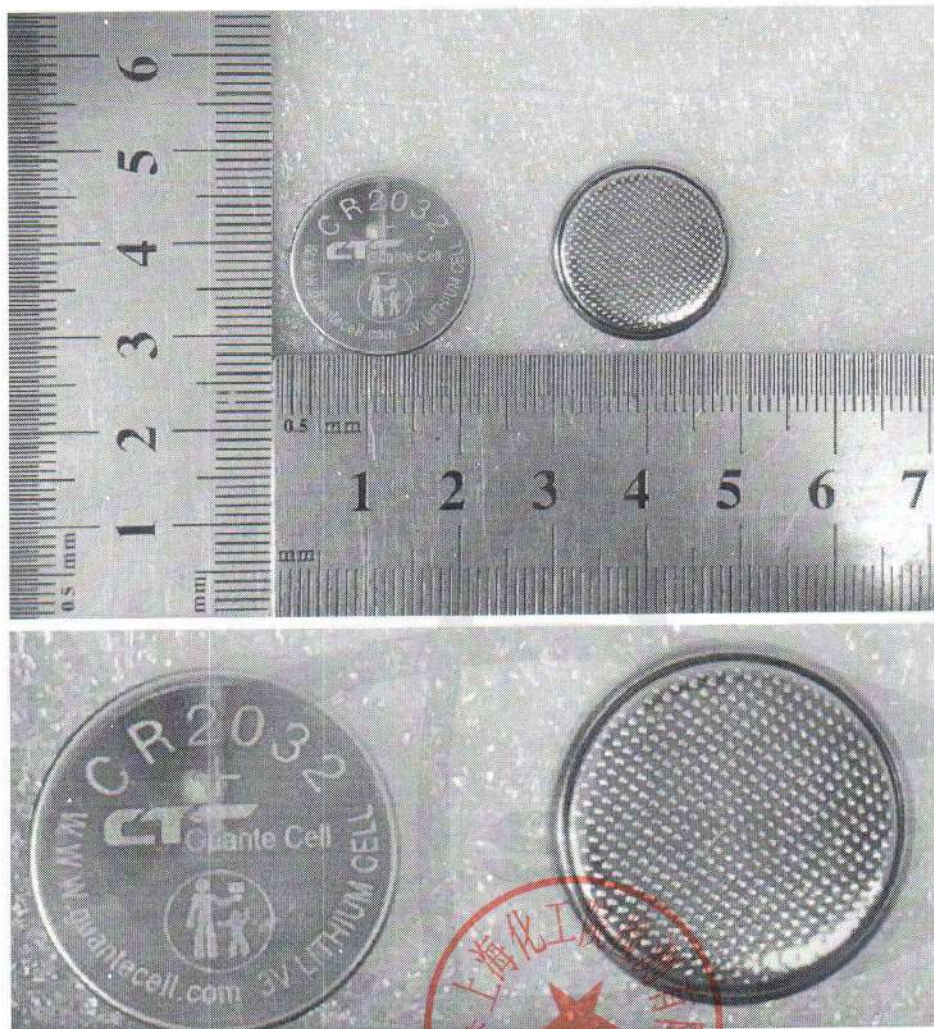
序号 No.	检验结果及其他事项 Inspection results and other things
1	<p>本报告所述锂电池按照《国际海运危险货物规则》(2020版) 2.9.4.5规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the quality management program described in IMDG CODE 2020 EDITION 2.9.4.5.</p>
2	<p>本报告所述锂电池已通过联合国《试验和标准手册》第111部分38.3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 111, 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) 812100100037484 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information.</p> 
3	<p>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.</p>
4	<p>电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.</p>
5	<p>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11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。 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 11, 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.</p>
6	/
7	/
-验证码:326168-	

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报告结束



三帕认证
CPUP TECHNOLOGY&SERVICE



真伪查询

Safety Data Sheet

安全技术说明书

Sample Name: Lithium metal battery
样品名称: 锂金属电池

Model: See page 2 见第二页
型号:

Applicant: DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.
申请商: 东莞市莞特电子科技有限公司

Report No.: DG GT20221208SDS15
报告编号:

Category: SDS
报告类别:

广州三帕认证技术服务有限公司

Guangzhou CPUP Certification Technology Service Co., Ltd.



Guangzhou CPUP Certification Technology Service Co., Ltd.

Room C101/C102/C103/C104, No.9, Hengji Road, Yunxing Zhukeng, Shiqiao Street, Panyu District, Guangzhou, Guangdong, China
Tel: +86 020-31127037 E-mail: info@cp-up.com <http://www.cp-up.com>

Section 1 - Chemical and Company Identification 第一部分-化学品及企业标识		
Sample Name 样品名称	Lithium metal battery 锂金属电池	
Model/型号	CR2032, CR1216, CR1220, CR1225, CR1616, CR1620, CR1625, CR1632, CR2016, CR2020	
Ratings/额定参数	3.0V	
Applicant 申请商	DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD. 东莞市莞特电子科技有限公司	
Applicant address 申请商地址	Room405, Hengtai building, Middle road of dongcheng, Guancheng district, Dongguan city 东莞市莞城区东城中路恒泰大厦 405 室	
Manufacturer 制造商	DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD. 东莞市莞特电子科技有限公司	
Manufacturer Contact information 制造商联系信息	address 地址	Room405, Hengtai building, Middle road of dongcheng, Guancheng district, Dongguan city 东莞市莞城区东城中路恒泰大厦 405 室
	Tel./应急电话	86-076923102849
	Email/邮箱	guantecell@vip.163.com

Section 2 - Hazards Identification 第二部分-危险性概述
Hazards Identification: 危险性描述 Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful. 正常使用没有危险，不能拆解、打开或分解电池，里面的材料或成分是有危害的。
Primary Route (s) of Exposure: 接触途径 inhalation, ingestion, Skin contact and Eye contact. 吸入、食入、皮肤接触、眼睛接触。
Potential Health Effects: 潜在健康影响 inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation. 吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。 Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. 食入: 电池的组成成分或原料可以导致嘴，食道和胃肠道的严重化学烧伤。 Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin. 皮肤: 皮肤接触到电池的內部化学材料可能会导致严重的刺激或烧伤皮肤。 Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye. 眼睛: 眼睛接触到电池的內部化学材料可能会导致严重的刺激或烧伤眼睛。

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Section 3- Composition/Information on Ingredients
第三部分-成分/组成信息

Chemical Name 化学名称	CAS Number CAS 号 (化学文摘索引登记号)	Concentration or concentration ranges (%) 浓度或浓度范围(%)
Manganese dioxide	1313-13-9	12-50
Lithium metal	7439-93-2	0.5-6
1,2-dimethoxyethane	110-71-4	1.5-3.5
Lithium Perchlorate	7791-03-9	0.2-0.7
Organic electrolyte	N/A	2.5-7
Steel	7439-89-6, 7440-47-3	30-35
Polypropylene	9003-07-0	0.5-10
Note: CAS number is Chemical Abstract Service Registry Number. 注意: CAS 号是化学文摘服务注册号。 N/A=Not apply. N/A=不适用		

Section 4- First Aid Measure
第四部分-急救措施

Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口, 在专业人士的指导下催吐, 速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服, 用大量的水冲洗至少 15 分钟, 速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟, 如刺激持续发生, 请求助于医生。

Section 5- Fire Fighting Measures
第五部分-消防措施

Characteristics of Hazard 危险特性	Toxic fumes, gases or vapors may evolve on burning. 火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳, 二氧化碳, 锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水, 干沙等合适的灭火介质。

Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。
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Section 6- Accidental Release Measure 第六部分-泄漏应急处理	
Personal Precautions, protective equipment, and emergency procedures 个人预防措施、防护装备和应急程序	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. 限制区域，直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个人防护设备，如第 8 部分所示。
Environmental Precautions 环境保护措施	Prevent material from contaminating soil and from entering sewers or waterways. 防止物质污染土壤和进入下水道或水道。
Methods and materials for Containment 方法和材料控制	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 出于安全，阻止泄漏，可以用干沙或沙土来遏制液体泄露，立即清理泄漏。
Methods and materials for cleaning up 清理的方法和材料	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 disposal. 用惰性吸收剂(干沙或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洁污染区域,收集所有受污染的洗涤水进行适当处置。

Section 7- Handling and Storage 第七部分-操作处置与储存	
Handling 操作	Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery. 不要以让接头短路的方式对电池进行操作。不要打开，分解，挤压或燃烧电池。
Storage 储存	Long period storage: 25±5°C, 60±25%R.H 长期存储: 25±5°C,相对湿度 60±25% 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. 不要将电池随意丢在盒子或抽屉里，以免电池之间或电池与其他金属物质发生短路。 Keep out of reach of children. 储存在小孩接触不到的地方。 Do not expose the battery to heat or fire. Avoid storage in direct sunlight. 不要将电池暴露在火源和热源附近，避免在阳光直射下存储。 Do not store together with oxidizing and acidic materials. 不要与氧化和酸性物质存储在一起。

Section 8 - Exposure Controls/Personal Protection 第八部分-接触控制和个体防护	
Engineering Controls 工程控制	<p>No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.</p> <p>操作未破损的电池，没有工程控制要求。对于破损的电池，个人防护用品应包括化学品防护手套和安全眼镜。</p>
Personal Protective Equipment 个人防护设备	<p>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.</p> <p>呼吸保护：当电池排气阀打开时，应尽量使通风设备开至最大，避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下，呼吸保护是不必要的。正常使用条件下不必考虑。</p> <p>Protective Gloves: Not necessary under conditions of normal use.</p> <p>防护手套：正常使用条件下不必考虑。</p> <p>Other Protective Clothing or Equipment: Not necessary under conditions of normal use.</p> <p>其他防护服装或设备：正常使用条件下不必考虑。</p> <p>Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.</p> <p>当电池排气阀打开时，应做好个人防护。呼吸防护，防护手套，防护服装和有护边的安全玻璃罩都是要准备的。</p>

Section 9- Physical and Chemical Properties 第九部分-理化特性	
Physical state: Solid 物理状态：固体	
Form: Button shape 形状：纽扣状	
Odor: Odorless 气味：无气味	
Solubility: Partial soluble in water 溶解度：部分溶于水	

Section 10 - Stability and Reactivity 第十部分-稳定性和反应性	
Stability 稳定性	<p>Stable under normal temperatures and pressures.</p> <p>常温常压下稳定。</p>
Conditions to Avoid 应避免的条件	<p>Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.</p> <p>加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路，长时间暴露在潮湿的条件下。</p>

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Hazardous Decomposition Products 危害分解物	Toxic Fumes, and may form peroxides. 有毒烟雾，并可能形成过氧化物。
Possibility of Hazardous Reaction 危险反应的可能性	If leaked, forbidden to contact with strong oxidizers ,mineral acids ,strong alkalis, halogenated hydrocarbons. 如果发生泄露，避免与强氧化剂，无机酸，强碱，卤代烃接触。

Section 11 - Toxicological Information 第十一部分-毒理学信息	
Irritation 刺激	In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin. 内部物质暴露的情况下，蒸汽烟雾可能对眼睛和皮肤产生刺激性。
Sensitization 致敏	Not applicable. 不适用
Reproductive Toxicity 再生毒性	Not applicable. 不适用
Toxicologically Synergistic Materials 协同材料毒理学	Not applicable. 不适用

Section 12-Ecological Information 第十二部分-生态学信息	
General note 通用信息	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 不允许未稀释或大量的产品到达地下水、水道或污水系统。
Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity 化学产品在环境/可能的环境预期的行为的一种生态毒性	Not applicable. 不适用
Mobility in soil 土壤中移动性	Not applicable. 不适用
Persistence and Degradability 持久性和降解性	Not applicable. 不适用

Section 13 - Disposal Considerations 第十三部分-废弃处置	
Waste Treatment 废弃处置方法	Recycle or dispose of in accordance with government, state & local regulations. 建议遵照国家和地方法规处置或再利用。
Attention for Waste Treatment 废弃注意事项	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.

Report No.: DGGT20221208SDS15

废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体， 刺穿， 破碎或类似的 处理。最好的办法是回收利用。

Section 14 - Transport Information

第十四部分-运输信息

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations "

该电池必须通过联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章节的测试项目和满足联合国《关于危险货物运输的建议书 规章范本》的要求。

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

该电池必须做好防短路保护。包括防止与同一封装内的导电材料接触可能导致的短路。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

包装应足以避免在运输， 处理和堆放期间的机械损坏。

The package must be handled with care and that a flammability hazard exists if the package is damaged. 包装必须小心处理， 如果包装损坏， 存在易燃危险。

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

关于运输， 引用和考虑了以下法规：

-The international Civil Aviation Organization (ICAO) Technical Instructions.

-国际民用航空组织(ICAO)技术细则。

-The international Air transport Association (IATA) Dangerous Goods Regulations.

-国际航空运输协会(IATA)危险物品规则。

The battery can be shipped by air in according to PACKING INSTRUCTION 968 Section IB , or PACKING INSTRUCTION 969~970 Section II of the 2023 IATA Dangerous Goods regulations 64th Edition.

该电池可以根据 2023 年 IATA 危险物品规则第 64 版包装指令 968 第 IB 部分或包装指令 969~970 第 II 部分运输。

UN number: UN3090 or UN3091;

UN 编号: UN3090 或 UN3091:

UN Proper shipping name/Description (technical name): Lithium metal batteries or Lithium metal batteries packed with equipment or Lithium metal batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂金属电池， 锂金属电池与设备包装在一起或锂金属电池内置于设备中;

UN Classification (Transport hazard class): Class 9 (PI968 Section IB) or Not applicable (PI969~970 Section II)

UN 分类(运输危险类别): 9 类危险品(包装指令 968 第 IB 部分)或者不适用(包装指令 969~970 第 II 部分)

UN Packing Group: Not applicable

UN 包装类别: 不适用

-The international Maritime Dangerous Goods (IMDG) Code.

-国际海运危险货物(IMDG)规则。

UN number: UN3090 or UN3091;

UN 编号: UN3090 或 UN3091:

UN Proper shipping name/Description (technical name): Lithium metal batteries or Lithium metal batteries

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packed with equipment or Lithium metal batteries contained in equipment;
 UN 合适的运输名称/描述(技术名称): 锂金属电池, 锂金属电池与设备包装在一起或锂金属电池内置于设备中;
 UN Classification (Transport hazard class): Not applicable
 UN 分类(运输危险类别): 不适用
 UN Packing Group: Not applicable
 UN 包装类别: 不适用
 The battery is not restricted according to IMO IMDG Code (inc. Amendment 40-20) Special Provision 188.
 海运按照国际海事组织《国际海运危险货物规则》(40-20 版)特殊规定 188 不受限制。

Section 15 - Regulatory Information

第十五部分-法规信息

International Civil Aviation Organization (ICAO) Technical Instructions

ICAO 国际民用航空组织(ICAO)技术细则:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.
 除非依据《技术细则》的相关要求取得豁免, 单独包装的锂离子电池(芯)(UN 3480, PI 965)和锂金属电池(芯)(UN 3090, PI 968)货物禁止使用客机运输。
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
 除非依据《技术细则》的相关要求取得特别批准, 按照包装说明 965 要求运输的锂离子电池(芯)货物, 交运时锂离子电池(芯)的荷电状态不得超过其额定容量的 30%。

Section 16 - Additional Information

第十六部分-附加信息

Compiler 编制人: *Bilen Feng*

Reviewer 审核人: *Tracy Chen*

Approver 批准人: *Leo Shi*

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广州三帕认证技术服务有限公司

Room C101/C102/C103/C104, No.9, Hengji Road, Yunxing Zhukeng, Shiqiao Street, Panyu District, Guangzhou, Guangdong, China

广州市番禺区市桥街云星珠坑村横基路 9 号 C101、C102、C103、C104 室

Tel./电话: 0086-20-31127037 Web/网址: www.cp-up.com Email/邮箱: info@cp-up.com

Other Information 其他信息:

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--End of report--

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