

## Test Report

No. CANEC2124864810

Date: 19 Jan 2022

Page 1 of 4

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. : LR6  
 Client Ref. Info. : LR03,LR1,LR14,LR20,6LR61  
 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



14213D94



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

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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description |
|--------------|------------------|-------------|
| SN1          | CAN21-248648.006 | 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    | 006 |
|--------------|--------|--------|--------|-----|
| 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.



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

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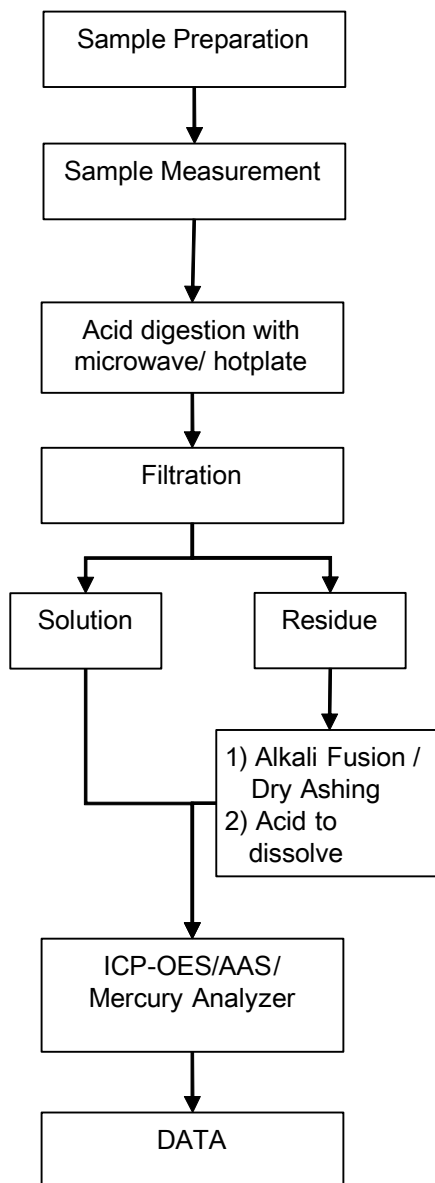
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### ATTACHMENTS

#### Battery Testing Flow Chart



## Test Report

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*





NO.202300506307803



# 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 : 1.5V LR03 碱性电池

Sample Name: 1.5V LR03 AAA Battery

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

Certification for Safe Transport of Chemical Goods

NO. 202300506307803

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|  |   |                       |
|--|---|-----------------------|
| 样品名称<br>Sample Name  | 中文<br>Chinese   | 1.5V LR03 碱性电池        |
|  | 英文<br>English   | 1.5V LR03 AAA Battery |
| 委托单位<br>Consignor  | 东莞市莞特电子科技有限公司<br>DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.  |                       |
| 生产单位<br>Manufacturer   | 东莞市莞特电子科技有限公司<br>DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.  |                       |
| 检验方法、程序<br>Inspection Methods and Procedures   | 国际海事组织《国际海运危险货物规则》(2020版)<br>IMO International Maritime Dangerous Goods Code (2020 Edition)   |                       |
| 样品外观与气味<br>Appearance & Odor   | 黄色, 黑色双色圆柱型塑料薄膜外壳, 无臭<br>yellow and black Cylinder plastics film shell, odorless  |                       |
| I<br>D<br>E<br>N<br>T<br>I<br>F<br>I<br>C<br>A<br>T<br>I<br>O<br>N<br><br>鉴<br>定<br>结<br>论<br><br>C<br>O<br>N<br>C<br>L<br>U<br>S<br>I<br>O<br>N | 1. 危险性识别(Hazards identification)<br>无。<br>None.   |                       |
|  | 2. 海运按照IMO IMDG Code办理的类项(Suggestion according to IMO IMDG Code)<br>可按非限制性货物条件办理。<br>The substance is not subject to IMO IMDG Code. |                       |
|  | 3. 包装类别(Packing Group)<br>无。<br>None.   |                       |
|  | 检验日期: 2022-11-30      签发日期: 2022-11-30      生效日期: 2023-01-01<br>Inspection Date:      Issue Date:      Effective Date:              |                       |
| 备注<br>Comment  | 无。None.   |                       |

批准  
Approver:

王东

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

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| 鉴定项目<br>Identification Items                               | 鉴定结果<br>Identification Results  |
|--|---|
| 爆炸危险性鉴定<br>Identification of Explosive Hazards             | 该货物不属于爆炸品。<br>The product is not classified in Explosives.  |
| 易燃危险性鉴定<br>Identification of Flammable Hazards             | 该货物不属于易燃危险品。<br>The product is not classified in Flammable Substances.  |
| 氧化危险性鉴定<br>Identification of Oxidative Hazards             | 该货物不属于氧化剂和有机过氧化物。<br>The product is not classified in Oxidizing Substances and Organic Peroxides.   |
| 毒害及传染危险性鉴定<br>Identification of Toxic & Infectious Hazards | 该货物不属于毒害品和感染性物质。<br>The product is not classified in Toxic and Infectious Substances.   |
| 放射危险性鉴定<br>Identification of Radioactive Hazard            | 该货物无放射危险性。<br>The product is not classified in Radioactive Material.  |
| 腐蚀危险性鉴定<br>Identification of Corrosive Hazard              | 该货物不属于腐蚀品。<br>The product is not classified in Corrosives.  |
| 其他危险性鉴定<br>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。<br>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:475607-   |   |





\*\*\*报告结束\*\*\*



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真伪查询

# Safety Data Sheet

## 安全技术说明书

**Sample Name:** Alkaline battery  
**样品名称:** 碱性电池

**Model:** LR6, LR03, LR14, LR20, 6LR61  
**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.:** DGGT20221208SDS17  
**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<br>第一部分-化学品及企业标识 |   |   |
|--|---|---|
| Sample Name<br>样品名称  | Alkaline battery<br>碱性电池  |   |
| Model/型号   | LR6, LR03, LR14, LR20, 6LR61  |   |
| Ratings/额定参数   | 1.5V  |   |
| Applicant<br>申请商   | DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.<br>东莞市莞特电子科技有限公司  |   |
| Applicant address<br>申请商地址                                       | Room405, Hengtai building, Middle road of dongcheng, Guancheng district,<br>Dongguan city<br>东莞市莞城区东城中路恒泰大厦 405 室 |   |
| Manufacturer<br>制造商  | DONGGUAN GUANTE ELECTRONICS TECHNOLOGY CO.,LTD.<br>东莞市莞特电子科技有限公司  |   |
| Manufacturer<br>Contact<br>information<br>制造商联系信息                | address<br>地址   | Room405, Hengtai building, Middle road of dongcheng, Guancheng district,<br>Dongguan city<br>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<br>第二部分-危险性概述   |  |
|--|--|
| <b>Hazards Identification: 危险性描述</b><br>Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.<br>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毒的。   |  |
| <b>Primary Route (s) of Exposure: 接触途径</b><br>inhalation, ingestion, Skin contact and Eye contact.<br>吸入、食入、皮肤接触、眼睛接触。   |  |
| <b>Potential Health Effects: 潜在健康影响</b><br><b>inhalation:</b> Vapors or mists from a ruptured battery may cause respiratory irritation.<br>吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。<br><b>Ingestion:</b> The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.<br>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。<br><b>Skin:</b> Skin contact with contents of an open battery can cause severe irritation or burns to the skin.<br>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。<br><b>Eye:</b> Eye contact with contents of an open battery can cause severe irritation or burns to the eye.<br>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。 |  |





**Section 3- Composition/Information on Ingredients**

**第三部分-成分/组成信息**

| Chemical Name<br>化学名称 | CAS Number<br>CAS 号 (化学文摘索引登记号) | Concentration or<br>concentration ranges (%)<br>浓度或浓度范围(%) |
|-----------------------|---------------------------------|--|
| Manganese dioxide     | 1313-13-9                       | 36-44  |
| Zinc                  | 7440-66-6                       | 15.8-19.3  |
| Stainless steel       | 12597-68-1                      | 14.9-18.2  |
| Water                 | 7732-18-5                       | 12.9-15.7  |
| Graphite              | 7782-42-5                       | 2.8-3.4  |
| Potassium hydroxide   | 1310-58-3                       | 2.5-3.0  |
| Brass                 | 12597-71-6                      | 1.8-2.2  |
| Polyethylene          | 9002-88-4                       | 1.6-2.0  |
| Acrylic resin         | 9003-01-4                       | 1.5-1.8  |

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<br>吸入     | Remove source of contamination or move victim to fresh air. Obtain medical advice.<br>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<br>食入      | Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time.<br>立即用清水漱口, 在专业人士的指导下催吐, 速就医。 |
| Skin contact<br>皮肤接触 | Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.<br>脱下已污染衣服, 用大量的水冲洗至少 15 分钟, 速就医。                                 |
| Eye contact<br>眼睛接触  | Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.<br>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<br>危险特性          | Toxic fumes, gases or vapors may evolve on burning.<br>火灾时可释放有害浓烟、气体或者蒸汽。               |
| Hazardous Combustion Products<br>燃烧产生的危险物品 | Carbon monoxide, carbon dioxide, lithium oxide fumes and so on.<br>一氧化碳, 二氧化碳, 锂氧化物烟气等。 |



|   |  |
|---|--|
| <b>Fire-extinguishing Methods and Extinguishing Media</b><br>灭火方法及灭火剂 | Please use water, dry sand and other proper fire extinguishing media.<br>请使用水, 干沙等合适的灭火介质。   |
| <b>Attention in Fire-extinguishing</b><br>灭火注意事项                      | The firemen should put on antigas masks and full fire-fighting suits.<br>消防人员须佩戴防毒面具、穿全身消防服。 |

#### Section 6- Accidental Release Measure

##### 第六部分-泄漏应急处理

|   |   |
|---|---|
| <b>Personal Precautions, protective equipment, and emergency procedures</b><br>个人预防措施、防护装备和应急程序 | Restrict access to area until completion of clean-up.<br>Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.<br>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。  |
| <b>Environmental Precautions</b><br>环境保护措施  | Prevent material from contaminating soil and from entering sewers or waterways.<br>防止物质污染土壤和进入下水道或水道。   |
| <b>Methods and materials for Containment</b><br>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.<br>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。   |
| <b>Methods and materials for cleaning up</b><br>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.<br>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

|                       |   |
|-----------------------|---|
| <b>Handling</b><br>操作 | Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery.<br>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。  |
| <b>Storage</b><br>储存  | Long period storage: 25±5°C, 60±25%R.H<br>长期存储: 25±5°C, 相对湿度 60±25%<br>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.<br>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。<br>Keep out of reach of children.<br>储存在小孩接触不到的地方。<br>Do not expose the battery to heat or fire. Avoid storage in direct sunlight.<br>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

|  |  |
|--|--|
| <b>Engineering Controls</b><br>工程控制            | 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.<br>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。  |
| <b>Personal Protective Equipment</b><br>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:** Cylindrical

形状：圆柱形

**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

|                                      |  |
|--------------------------------------|--|
| <b>Stability</b><br>稳定性              | Stable under normal temperatures and pressures.<br>常温常压下稳定。  |
| <b>Conditions to Avoid</b><br>应避免的条件 | Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. |



Report No.: DGGT20221208SDS17

|  |   |
|--|---|
|  | 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。  |
| <b>Hazardous Decomposition Products</b><br>危害分解物     | Toxic Fumes, and may form peroxides.<br>有毒烟雾，并可能形成过氧化物。   |
| <b>Possibility of Hazardous Reaction</b><br>危险反应的可能性 | If leaked, forbidden to contact with strong oxidizers ,mineral acids ,strong alkalis, halogenated hydrocarbons.<br>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

|   |  |
|---|--|
| <b>Irritation</b><br>刺激                                 | In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin.<br>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。 |
| <b>Sensitization</b><br>致敏                              | Not applicable.<br>不适用   |
| <b>Reproductive Toxicity</b><br>再生毒性                    | Not applicable.<br>不适用   |
| <b>Toxicologically Synergistic Materials</b><br>协同材料毒理学 | Not applicable.<br>不适用   |

#### Section 12-Ecological Information

##### 第十二部分-生态学信息

|   |  |
|---|--|
| <b>General note</b><br>通用信息   | Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.<br>不允许未稀释或大量的产品到达地下水、水道或污水系统。 |
| <b>Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity</b><br>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.<br>不适用   |
| <b>Mobility in soil</b><br>土壤中移动性   | Not applicable.<br>不适用   |
| <b>Persistence and Degradability</b><br>持久性和降解性   | Not applicable.<br>不适用   |

#### Section 13 - Disposal Considerations

##### 第十三部分-废弃处置

|                                  |   |
|----------------------------------|---|
| <b>Waste Treatment</b><br>废弃处置方法 | Recycle or dispose of in accordance with government, state & local regulations.<br>建议遵照国家和地方法规处置或再利用。 |
|----------------------------------|---|

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**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.  
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 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。

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。

UN Proper shipping name/Description (technical name): N/A

UN 合适的运输名称/描述(技术名称): 不适用

UN number: N/A

UN 编号: 不适用

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

The battery can be shipped by air in according to special provision A123 of the 2023 IATA Dangerous Goods regulations 64<sup>th</sup> Edition.

该电池可以根据 2023 年 IATA 危险物品规则第 64 版特殊条款 A123 运输。

- The international Maritime Dangerous Goods (IMDG) Code.  
-国际海运危险货物(IMDG)规则。

UN number: N/A

UN 编号: 不适用

UN Proper shipping name/Description (technical name): N/A

UN 合适的运输名称/描述(技术名称): 不适用

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

The battery is deal with according to IMO IMDG Code (inc. Amendment 40-20).  
海运按照国际海事组织《国际海运危险货物规则》(40-20 版)办理。



**Section 15 - Regulatory Information**  
**第十五部分-法规信息**



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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 international Maritime Dangerous Goods (IMDG) Code.

国际海运危险货物(IMDG)规则。

#### Section 16 - Additional Information

#### 第十六部分-附加信息

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--End of report--

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