



Safety Data Sheet

安全技术说明书

Sample Name: Charging Case
样品名称: 充电盒

Model: IT-75
型号: IT-75

Applicant: ASKA Electronics CO.,Ltd
申请商: 东莞市逸音电子科技有限公司

Report No.: DGYY20230217SDS01
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.



Section 1 - Chemical and Company Identification	
第一部分-化学品及企业标识	
Sample Name 样品名称	Charging Case 充电盒
Model/型号	IT-75
Ratings/额定参数	3.7V, 700mAh,2.59Wh
Applicant 申请商	ASKA Electronics CO.,Ltd 东莞市逸音电子科技有限公司
Applicant address 申请商地址	No.5 Puxin Road,Keyuancheng Industrial Park,Tangxia Town, Dongguan,Guangdong, China 广东省东莞市塘厦镇田心科苑城莆心路 5 号
Manufacturer 制造商	ASKA Electronics CO.,Ltd 东莞市逸音电子科技有限公司
Manufacturer Contact information 制造商联系信息	address 地址
	Tel./应急电话
	Email/邮箱
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18665161731	
hjl@askatek.cn	

Section 2 - Hazards Identification	
第二部分-危险性概述	
Hazards Identification: 危险性描述	
<p>Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.</p> <p>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害的。</p>	
Primary Route (s) of Exposure: 接触途径	
<p>inhalation, ingestion, Skin contact and Eye contact.</p> <p>吸入、食入、皮肤接触、眼睛接触。</p>	
Potential Health Effects: 潜在健康影响	
<p>inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.</p> <p>吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。</p> <p>Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.</p> <p>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。</p> <p>Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.</p> <p>皮肤: 皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。</p> <p>Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.</p> <p>眼睛: 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。</p>	

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 (化学文摘登记号)	Concentration or concentration ranges (%) 浓度或浓度范围(%)
Lithium Cobalt Oxide 钴酸锂	12190-79-3	34
Graphite 石墨	7782-42-5	18
Lithium hexafluorophosphate 六氟磷酸锂	21324-40-3	17
Copper Foil 铜箔	7440-50-8	7
Aluminum Foil 铝箔	7429-90-5	6
Other 其他	N/A	18
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 applicable. 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。

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	<p>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.</p> <p>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。</p>
Environmental Precautions 环境保护措施	<p>Prevent material from contaminating soil and from entering sewers or waterways.</p> <p>防止物质污染土壤和进入下水道或水道。</p>
Methods and materials for Containment 方法和材料控制	<p>Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.</p> <p>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。</p>
Methods and materials for cleaning up 清理的方法和材料	<p>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.</p> <p>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。用洗涤剂和清水清洁污染区域,收集所有受污染的洗涤水进行适当处置。</p>

Section 7- Handling and Storage 第七部分-操作处置与储存	
Handling 操作	<p>Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery.</p> <p>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。</p>
Storage 储存	<p>if the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically.</p> <p>如果电池长期存放超过 3 个月，建议定期对电池充电。</p> <p>Long period storage: 25±5°C, 60±25%R.H 长期存储: 25±5°C,相对湿度 60±25%</p> <p>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.</p> <p>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。</p> <p>Keep out of reach of children. 储存在小孩接触不到的地方。</p> <p>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。</p> <p>Do not store together with oxidizing and acidic materials. 不要与氧化和酸性物质存储在一起。</p>

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	
Appearance: Black 外观颜色：黑色	
Physical state: Solid 物理状态：固体	
Form: Prismatic 形状：棱柱形	
Melting Point °C: >300°C 熔点°C：>300°C	
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	Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 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。
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。
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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。
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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 965 Section IB, or PACKING INSTRUCTION 966 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 965 第 IB 部分或包装指令 966 第 II 部分运输。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481:

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

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or Not applicable (PI966 Section II)

UN 分类(运输危险类别): 9 类危险品(包装指令 965 第 IB 部分)或者不适用(包装指令 966 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: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481;

Report No.: DGY20230217SDS01

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

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起;

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

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Issue Date 签发日期: 2023.03.28

Compile unit 编制单位:

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Other Information 其他信息:

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have

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been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

在我们看来上面的信息是准确的，这是我们目前能提供的最佳的信息。但是，对于这些信息，我们不对商品的性能做任何明示的或者暗示的保证，我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警，但是这仅仅只是给您做参考、考量和调查。这份安全技术说明书提供了安全处理和使用该产品的指南，但是它没有，也不能对所有可能发生的情景提出建议，所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

--End of report--

--报告结束--



Material Safety Data Sheet
材料安全数据表

Name of Goods: Rechargeable Li-ion Cell

物品名称: 可充电锂离子电芯

Model and Spec.:

LIR1240, 3.7V 50mAh 0.185Wh

型号规格:

Applicant: Zhuhai Gainan New energy Co., Ltd

委托单位: 珠海钜能新能源有限公司

Effective date:

2023-01-13

生效日期:

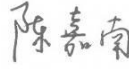
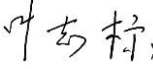
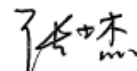
Date of issue:


2023-01-13

签发日期:

Shenzhen NTEK New Energy Technology Co., Ltd.

深圳市北测新能源技术有限公司

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 化学品及企业标识	
Name of Products 产品名称	Rechargeable Li-ion Cell 可充电锂离子电芯
Model/Type 型号	LIR1240
Ratings 额定参数	3.7V 50mAh 0.185Wh
Applicant 委托单位	Zhuhai Gainan New energy Co., Ltd 珠海钜能新能源有限公司
Address of Applicant 委托单位地址	The First, Second and Third Floors of Plant 1, No. 3215, Zhufeng Avenue South, Qianwu Town, Doumen District, Zhuhai City, China 珠海市斗门区乾务镇珠峰大道南3215号厂房一的一楼、二楼和三楼
Manufacturer 生产厂商	Zhuhai Gainan New energy Co., Ltd 珠海钜能新能源有限公司
Address of manufacturer 生产厂商地址	The First, Second and Third Floors of Plant 1, No. 3215, Zhufeng Avenue South, Qianwu Town, Doumen District, Zhuhai City, China 珠海市斗门区乾务镇珠峰大道南3215号厂房一的一楼、二楼和三楼
Emergency telephone call 应急电话	+86-18566200503
Prepared by 编制人	Jake Chen 陈嘉南 
Reviewed by 审核人	Bill Ye 叶志标 
Approved by 批准人	Jesse Zhang 张士杰  报告单位（盖章） Seal of NTEK

2. Hazards Identification 危险性概述			
Dangerous classification 物品危险分类			
Explosive risk 爆炸危险性	This article does not belong to the explosion dangerous goods 该物品不属于爆炸危险品		
Flammable risk 易燃危险性	This article does not belong to the flammable material 该物品不属于易燃危险品		
Oxidation risk 氧化危险性	This article does not belong to the oxidation of dangerous goods 该物品不属于氧化危险品		
Toxic risk 毒害危险性	This article does not belong to the toxic dangerous goods 该物品不属于毒害危险品		
Radioactive risk 放射危险性	This article does not belong to the radiation of dangerous goods 该物品不属于放射危险品		
Mordant risk 腐蚀危险性	This article does not belong to the corrosion of dangerous goods 该物品不属于腐蚀危险品		
Other risk 其他危险性	Lithium-ion batteries, The Watt-hour rating of the battery is 0.185Wh 锂离子电池，该电池额定瓦时为0.185Wh		
3. COMPOSITION INFORMATION 成分/组成信息			
Chemical Composition 化学成分	Chemical Formula 化学式	CAS No. CAS号	Weight (%) 重量百分比
Lithium cobaltate	LiCoO ₂	12190-79-3	4.31
Lithium manganate	Li ₂ MnO ₄	12057-17-9	4.31
Lithium nickel oxide	N/A	39300-70-4	34.54
Polyvinylidene fluoride	(C ₂ H ₂ F ₂) _n	24937-79-9	1.13
Graphite	C ₂₄ X ₁₂	7782-42-5	28.27
Carbon Black	C	1333-86-4	1.42
Cellulose CM	N/A	9000-11-7	0.38
Styrene-butadiene rubber 1500	(C ₈ H ₈ .C ₄ H ₆) _x	9003-55-8	1.16
Polypropylene	(C ₃ H ₆) _n	9003-07-0	1.13
Lithium hexafluorophosphate	LiPF ₆	21324-40-3	0.68
Aluminum	Al	7429-90-5	6.62
Copper	Cu	7440-50-8	13.55
Nickel	Ni	7440-02-0	2.5

4. First aid measures 急救措施

Once battery shell rupture, content contact with the human body will produce harm, once contact, should take the following emergency measures:

电池外壳破裂，内容物接触人体会产生危害，一旦发生接触，应采取以下应急措施：

Eye:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

眼睛:

万一接触，立即用大量的清水冲洗至少15分钟，翻起上下眼睑，直到化学的残留物消失为止，迅速就医。

Skin:

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

皮肤:

万一接触，用大量水冲洗至少15分钟，同时除去污染的衣物和鞋子，迅速就医。

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

吸入:

立即从暴露处移至空气清新处，如果呼吸困难给予输氧，立即就医。

Ingestion: Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

食入:

饮用两杯牛奶或水。如果当事人仍然清晰可以采取催吐的方法，并且立即就医。

5. Fire-fighting measures 消防措施

Flash Point: N/A.

燃点: 不适用

Auto-Ignition Temperature: N/A.

自燃温度: 不适用

Extinguishing Media: Water, CO₂.

灭火介质: 大量水（降温），二氧化碳

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

特殊灭火程序: 自给式呼吸器

Unusual Fire and Explosion Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.

异常火灾或爆炸: 当电芯暴露于过热的环境中时，安全阀可能会打开。

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

燃烧产生的危险物品: 一氧化碳，二氧化碳，锂氧化物烟气。

6. Accidental release measures 泄露应急处理

Steps to be Taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

为防止电池材料泄露或释放采取的措施

如果电池内部材料泄露，试验人员应立即撤离试验区直到烟气消散。将通风设备打开吹散危险性气体。用抹布擦净试验区，清除溢出的液体，将泄露电池放进塑料袋中，然后放进钢制容器。避免皮肤和眼睛接触或吸入有害气体。

Waste Disposal Method

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

废弃物处置方法

建议将电池完全放电，消耗电池内部的锂金属，并且深埋于土壤中。

7. Handling and storage 操作处置和储存

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。禁止将电池短路、过充、强制放电或扔入火中。禁止挤压刺穿电池或将电池浸入溶液中。

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

操作处置和储存中的防范措施

禁止物理或电滥用，禁止高温储存，最好将电池储存在阴凉、干燥、通风等温度变化较小的环境中。禁止将电池接触加热设备或将电池直接暴露与阳光中。

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

其他要注意的防范措施

拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短接或将电池正负极错误的安装在设备中。

8. Exposure controls/personal protection 接触控制/个人防护

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.

呼吸防护: 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。

Ventilation: Not necessary under conditions of normal use.

通风条件: 正常使用条件下不需要。

Protective Gloves: Not necessary under conditions of normal use.

防护手套: 正常使用条件下不需要。

Other Protective Clothing or Equipment: Not necessary under conditions of normal use.

其他防护服装或设备: 正常使用条件下不需要。

Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

电池开阀试验时应做好个人防护: 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。

9. Physical and chemical properties 物理和化学特性

Appearance: Button

外形: 纽扣形

Odors: If leaking, smells of medical ether.

气味: 泄漏时, 有醚的气味。

PH: Not applicable as supplied.

酸碱度: 不适用

Flash Point: Not applicable unless individual components exposed.

燃点: 除单个电芯暴露试验外其他不适用。

Flammability: Not applicable unless individual components exposed.

可燃性: 除单个电芯暴露试验外其他不适用。

Relative density: Not applicable unless individual components exposed.

相对密度: 除单个电芯暴露试验外其他不适用。

Solubility (water): Not applicable unless individual components exposed.

溶解性 (水溶性): 除单个电芯暴露试验外其他不适用。

Solubility (other): Not applicable unless individual components exposed.

溶解性 (其他): 除单个电芯暴露试验外其他不适用。

10. Stability and reactivity 稳定性和反应活性

Stability: Product is stable under conditions described in Section 7.

稳定性: 产品在第7节所述的条件下稳定。

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

应避免的条件: 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。

Materials to avoid: Oxidising agents, alkalis, water.

应避免的材料: 氧化剂, 碱, 水。

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

危险分解物: 有毒烟雾, 并可能形成过氧化物。

Hazardous Polymerization: N/A.

聚合危害: 不适用

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, 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。

11. Toxicological information 毒理学资料

Signs & symptoms: None, unless battery ruptures.

标志及症状: 无, 除非电池破裂。

In the event of exposure to internal contents, vapour 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的刺激性。

Inhalation: Lung irritant.

吸入: 对肺有刺激性。

Skin contact: Skin irritant.

皮肤接触: 对皮肤刺激性。

Eye contact: Eye irritant.

眼睛接触: 对眼睛有刺激性。

Ingestion: Poisoning if swallowed.

食入: 吞下中毒。

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

下列情况下健康状况会恶化: 万一发生与电池内部材料接触的事故, 轻微或严重的刺激, 都可能使皮肤出现干燥和灼烧的感觉, 并且损坏靶器官(肝脏, 肾脏)的神经。

12. Ecological information 生态学资料		
<p>Mammalian effects: None known at present. 对哺乳动物的影响：目前未知。</p> <p>Eco-toxicity: None known at present. 生态毒性：目前未知。</p> <p>Bioaccumulation potential: Slowly Bio-degradable. 生物体内积累：慢慢地生物降解。</p> <p>Environmental fate: None known environmental hazards at present. 环境危害：目前没有已知的环境危害。</p>		
13. Disposal consideration 废弃处置		
<p>Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations. 不要焚烧，或使电池温度超过 70°C，这种滥用可导致泄漏和/或电池爆炸。按照相应的地方性法规处理。</p>		
14. Transport information 运输信息		
<p>UN No. and Shipping name: UN 3480 Lithium ion batteries UN 3481 Lithium ion batteries packed with equipment UN 3481 Lithium ion batteries contained in equipment UN编号及运输专有名称: UN 3480 Lithium ion batteries UN 3481 Lithium ion batteries packed with equipment UN 3481 Lithium ion batteries contained in equipment Label for conveyance: Lithium Battery Mark, class 9 lithium battery hazard label (Only for UN3480), Cargo Aircraft Only Label (Only for UN3480) 运输标签: 锂电池标记，第 9 类锂电池危险品标签（只适用UN3480），仅限货机标签（只适用UN3480） Packaging Group/包装等级: N/A/不适用 EmS No./EmS 编号: F-A, S-I Marine pollutants/海洋污染物: No/否</p>		
ICAO/IATA	Shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DRG Packing Instructions PI 965 IB, PI 966 II, PI 967 II 根据国际民用航空组织(ICAO), TI或者国际航空协会(IATA), DGR包装说明PI 965 IB, PI 966 II, PI 967 II相关规定进行空运	DGR 64 th (2023) ICAO (2023-2024 edition)
IMDG CODE	Shipped by sea in accordance with International Maritime Dangerous Code (IMDG CODE) Special Provision 188 根据《国际海运危险货物规则》(IMDG CODE)特殊规定188条款相关规定运输	IMDG CODE (Amdt. 40-20)

15. Regulation information
法规信息

Law information 法律信息

《Dangerous Goods Regulations》

《危险品规则》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《关于危险货物运输的建议书 规章范本》

《International Maritime Dangerous Goods Code》

《国际海运危险货物规则》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险品安全运输技术指令》

16. Other Information
其他信息

This file is only effective to the batteries (LIR1240) provided by commissioner (Zhuhai Gainan New energy Co., Ltd) which manufactured by Zhuhai Gainan New energy Co., Ltd The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. Shenzhen NTEK New Energy Technology Co., Ltd. doesn't assume responsibility for any damage or loss because of misuse of batteries.

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--End of Material Safety Data Sheet 材料安全数据表结束--

Important Notice

注意事项

1. The test report is invalid without the Report Seal of NTEK and Paging seal of NTEK.

本报告书无本公司报告专用章、骑缝章无效。

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未经本实验室书面同意，不得部分地复制本报告。

3. The test report is invalid without the signatures of Approver, Reviewer and Preparer.

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5. Objections to the test report must be submitted to NTEK within 15 days.

对报告书若有异议，应于收到报告之日起15天内向本公司提出。

6. The Chinese contents in this report are only for reference.

本报告中的中文内容仅供参考。

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