

MSDS

MATERIAL SAFETY DATA SHEET

Prepared For : Shenzhen Jin Yu Zhou Energy Co., Ltd.
2/F, A Building, JinHeRuiYiQuan Industrial Area, Tangqian Village,
Guanlan Street, Longhua New District, Shenzhen City.

Prepared By : Shenzhen LCS Compliance Testing Laboratory Ltd.
Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an
District, Shenzhen, Guangdong, China

Issue Date : 2019.01.04
Report Number : LCS181009087ASD

Written by: Seven Liu

Approved by: _____



Material Safety Data Sheet

REPORT NO.: LCS181009087ASD

* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request.

Section 1-Chemical Product and Company Identification

Product Name	Charging case
Model	BE1018
Trade Mark	N/A
Ratings	Battery: 3.7V, 650mAh, 2.405Wh Output: 5.0V
Weight	58.9g
Manufacturer	Shenzhen Jin Yu Zhou Energy Co., Ltd.
Manufacturer address	2/F, A Building, JinHeRuiYiQuan Industrial Area, Tangqian Village, Guanlan Street, Longhua New District, Shenzhen City.
Emergency Telephone	+86-755-28230503
Fax	+86-755-29782182

Section 2- Composition Information

Chemical Composition	CAS No.	Weight (%)	Trade Secret
Lithium cobaltate	12190-79-3	15 - 40	*
Graphite	7782-42-5	10 - 30	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10 - 30	*
Copper	7440-50-8	7-13	*
Aluminium	7429-90-5	5-10	*
Nickel	7440-02-0	1-5	*

“ * ” The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 3- Hazards Identification

Emergency overview:	N/A
Classification according to GHS	Not a dangerous substance according to GHS
Label elements:	
Hazard pictogram(s)	No available
Signal word	No available
Hazard statement(s)	No available

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Precautionary statement(s):	
Prevention	No available
Response	No available
Disposal	No available
Environmental hazards:	No relevant information
Important symptoms:	See section 11 for more information
Section 4- First Aid Measures	
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.
Section 5- Fire Fighting Measures	
Flash Point	N/A
Auto-Ignition Temperature	N/A
Extinguishing Media	H ₂ O, CO ₂
Special Fire-Fighting Procedures	Self-contained breathing apparatus
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Section 6- Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures: If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.	
Environment precautions: Do not allow product to reach sewage system or any water source. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.	

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Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

Section 7- Handling and Storage

Handling	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.
Storage	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.
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.

Section 8- Exposure Controls/Personal Protection

Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9- Physical and Chemical Properties

Form	Solid
Color	Black
Odour	No available
pH	No available

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Melting point/freezing point	No available
Boiling Point and Boiling range	No available
Flash Point	No available
Upper/lower flammability or explosive limits	No available
Vapor Pressure	No available
Vapor Density	No available
Relative density	No available
Solubility in Water	No available
Auto-ignition temperature	No available
Decomposition temperature	No available
Evaporation rate	No available
Flammability (soil, gas)	No available
Viscosity	No available
Section 10- Stability and reactivity	
Stability	The product is stable under conditions described Section 7
Conditions to Avoid	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
Incompatible Materials	Oxidizing agents, acid, base.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Possibility of Hazardous Reaction	Not Available
Section 11 – Toxicological Information	
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
Sensitization	Not Available
Neurological Effects	Not Available
Teratogenicity	Not Available
Reproductive Toxicity	Not Available

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Mutagenicity (Genetic Effects)	Not Available
Toxicologically Synergistic Materials	Not Available
Section 12- Ecological Information	
Ecological Toxicity	Not Available
Mobility in soil	Not Available
Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available
Section 13- Disposal Considerations	
Product disposal recommendation	Observe local, state and federal laws and regulations.
Uncleaned packaging recommendation	Disposal must be made according to official regulations
Section 14 – Transport Information	
Label for conveyance	Lithium Battery Label
UN Number	UN 3480
Transport hazard class(es)	9
Packing group	--
Marine pollutant	No
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries)
Transport information: Charging case (Sample Model: BE1018) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3. The goods shall be complied with the requirements of Section IB~II of Packing Instruction 965 of 60th DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 39-18). Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain. Transport Fashion: By air, by sea, by railway, by road.	

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Section 15- Regulatory information

Law information

《Dangerous Goods Regulations》
《Recommendation on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《Classification and code of dangerous Goods》
《Occupational Safety and Health Act》 (OSHA)
《Toxic Substance Control Act》 (TSCA)
《Consumer Product Safety Act》 (CPSA)
《Federal Environmental Pollution Control Act》 (FEPCA)
《The Oil Pollution Act》 (OPA)
《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety Drinking Water Act》 (CWA)
《California Proposition 65》
《Code of Federal Regulations》 (CFR)

In according with all Federal, State and local laws.

Section 16- Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde 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 been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material 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.

-- End of Report --

MSDS 报告 Report

报告编号 Report No.: AGC06733181103UA05

样品名称 Samples	扣式锂离子电芯 Button Lithium-ion Cell
样品型号 Model	LIR1254
委托单位 Applicant	东莞市电的电子有限公司 DONGGUAN LIDEA ELECTRONICS CO., LTD.
签发日期 Issue Date	2019-01-03

深圳市鑫宇环检测有限公司

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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化学品安全技术说明书

Material Safety Data Sheet

 依据 GB/T16483-2008&ISO11014:2009 编制
 According to GB/T16483-2008&ISO11014:2009

Report Revise Record: 报告修订记录:				
Report Version 版本号	Revise Time 修改次数	Issued Date 签发日期	Valid Version 有效性	Notes 备注
V1.0	/	2019-01-03	Valid 有效	Original report 原始报告

第一部分 化学品及企业标识

Section 1 - Chemical Product and Company Identification

化学品信息 Chemical product information			
样品名称 Sample Name	扣式锂离子电芯 Button Lithium-ion Cell	样品型号 Sample Model	LIR1254
收样日期 Sample Receiving Date	2018-12-11	产品推荐及限制用途 Sample Uses	---
单位信息 Company information			
委托单位 Applicant	东莞市电的电子有限公司 DONGGUAN LIDEA ELECTRONICS CO., LTD.		
委托单位地址 Client address	广东省东莞市大朗镇杨涌村杨新路 393 号中品福成工业园 A2 栋二楼 2nd Floor, Building A2, Zhongpin Fucheng Industrial Park, No. 393, Yangxin Road, Yangyong Village, Dalang Town, Dongguan City, Guangdong Province, China		
生产单位 Manufacturer	东莞市电的电子有限公司 DONGGUAN LIDEA ELECTRONICS CO., LTD.		
生产单位地址 Manufacturer address	广东省东莞市大朗镇杨涌村杨新路 393 号中品福成工业园 A2 栋二楼 2nd Floor, Building A2, Zhongpin Fucheng Industrial Park, No. 393, Yangxin Road, Yangyong Village, Dalang Town, Dongguan City, Guangdong Province, China		
联系电话 Telephone	0769-89399137		
传真号码 Fax number	0769-89399147		
邮政编码 Post code	523790		
应急电话 Emergency telephone	0769-89399137		
电子邮件 E-mail	best-battery@163.com		

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第二部分 危险性概述
Section 2 - Hazards Identification

紧急情况概述: 无相关详细资料。

Emergency overview: No information available.

GHS 危险性分类: 根据化学品全球统一分类与标签制度(GHS)的规定, 不是危险物质。

Classification according to GHS: Not a dangerous substance according to GHS.

GHS 标签要素 Label elements	
危害类型象形图 Hazard pictogram(s)	无数据 No available
警示词 Signal word	无数据 No available
危险性说明 Hazard statement(s)	无数据 No available
防范说明 Precautionary statement(s)	
预防措施 Prevention	无数据 No available
事故响应 Response	无数据 No available
安全储存 Safe storage	无数据 No available
废弃处置 Disposal	无数据 No available

物理和化学危险: 无相关详细资料。

Physical and chemical risk: No information available.

健康危害: 无相关详细资料。

Health hazard: No information available.

环境危害: 无相关详细资料。

Environmental hazards: No information available.

其它危害: 无相关详细资料。

Other hazards: No information available.

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

该物质或混合物的分类: 物质 混合物

Classification of the substance or mixture: substance mixture

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化学名称 Chemical Composition	CAS No.	EC#	百分含量 Weight (%)
不锈钢 Stainless Steel	12597-68-1	---	54.8
聚丙烯 Polypropylene	9003-07-0	---	3.68
二氧化锰 Manganese Dioxide	1313-13-9	215-202-6	28.3
锂板 Lithium Sheet	7439-93-2	231-102-5	2.31
高氯酸锂 Lithium Perchlorate	7791-03-9	232-237-2	0.1
1,3-二氧戊环 1,3-Dioxolane	646-06-0	211-463-5	1.23
乙二醇二甲醚 1,2-Dimethoxyethane	110-71-4	203-794-9	2.14
石墨 Carbon	7782-42-5	231-955-3	2.59
碳酸丙烯酯 Propylene Carbonate	108-32-7	203-572-1	3.2
玻璃纤维 Fiberglass Diaphragm	65997-17-3	266-046-0	0.67

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).

EC#: 欧洲现有商业化学品目录European Inventory of Existing Commercial Chemical Substances

“---”: 无数据No Data

第四部分 急救措施

Section 4 - First Aid Measures

总说明: 正常情况下, 不需要特别的措施。

General information: No special measures required.

吸入: 立即将人员移至通风处, 如果呼吸困难, 速进行人工呼吸抢救。如症状持续, 速就医。

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

皮肤接触: 脱去污着衣物, 用大量的水清洗, 然后清洗双手, 衣物清洗后再使用。如果症状持续, 速就医。

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

眼睛接触: 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

食入: 禁止催吐, 速就医。

After swallowing: Do not induce vomiting. Get medical attention.

急性和迟发效应

Acute and delayed effects

主要症状: 无相关详细资料。

The main symptoms: No relevant details information.

健康影响: 无相关详细资料。

Health effects: No relevant details information.

对保护施救者的忠告: 无相关详细资料。

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To protect the rescuers advice: No relevant details information.

对医生的建议: 需要及时的医疗处理及特别处理的症状, 无相关详细资料。

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

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

灭火剂: 使用适合当地情况和周围环境的灭火剂, 如干粉, CO₂。

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

特别危险性: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温(> 150°C(302°F)) 时, 含有易燃电解液的电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电) 时, 可能燃烧迅速与耀斑燃烧效果, 也可能引燃其他在电池附近衣服。

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

灭火方法注意事项及防护措施: 如起火, 佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

第六部分 泄露应急处理 Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序: 穿上保护装备, 疏散人群, 确保有足够的通风。

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

泄漏化学品的收容、清除方法及所使用的处置材料: 从泄露区移除所有的火源, 隔离人员。用一个不产生粉尘的方法打扫处理泄漏物, 尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道, 沟渠或水源。所有废弃物必须参照联合国, 国家, 地方性法规进行处置。

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

防止次生灾害的预防措施: 有关安全处理的资料请参阅第七部分。有关个人防护装备的资料请参阅第八部分。有关弃置的资料请参阅第十三部分。

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

第七部分 操作处置与储存 Section 7 - Handling and Storage

操作注意事项: 储存时远离食物和水源。吃饭喝水前彻底清洗双手。储有化学物的容器搬用时需防止静电的产生和积聚。

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

有关火灾及防止爆炸的资料: 电池在拆开、挤压、遇火或高温情况下, 会引起起火或爆炸, 严禁短路或非正确操作。

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

储存注意事项: 储存在一个低温, 干燥, 通风良好的环境。远离热源, 避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

第八部分 接触控制/个体防护 Section 8 - Exposure Controls, Personal Protection

职业接触限值Occupational exposure limit

在工作场需要监控的限制成分 Ingredients with limit values that require monitoring at the workplace:	
12190-79-3 钴酸锂 Lithium Cobalt Oxide	
TLV (USA)	0.02mg/m ³ .
MAK(Germany)	0.1mg/m ³ .

Note:TLV: Threshold Limit Value

生物限值: 无相关详细资料。

Biological limit: no relevant details information.

检测方法: 无相关详细资料。

Detection: no relevant details information.

工程控制

Engineering control

一般保护和卫生措施: 当处理化学物品时, 应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

General protective and hygienic measures:The usual precautionary measures for handling chemicals should be followed.Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

呼吸防护: 高浓度的情况时, 使用适当的呼吸器。

Respiratory Protection: Use suitable respirator when high concentrations are present.

个体防护设备Personal Protection

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手防护 Hand protection	眼睛防护 Eye protection
 Protective gloves	 Tightly sealed goggles

第九部分 理化特性 Section 9 - Physical and Chemical Properties

有关基本物理及化学特性的信息 Information on basic physical and chemical properties	
外观 Appearance	银色 Silvery
形状 Form	纽扣 Button
气味 Odour	无味 Odorless
电性能信息 Electrical properties information	
电压 Voltage	3.6V
电芯电压 Cell Voltage	3.6V
电容量 Electric capacity	55mAh
功率 Watt-hour	0.198Wh

第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

稳定性: 正常情况下稳定。

Chemical stability: Stable in normal circumstances.

危险反应: 无资料。

Possibility of hazardous reactions: Data not available.

应避免条件: 火焰, 火花和其他热源, 禁忌物。

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

禁配物: 氧化剂, 酸, 碱。

Incompatibilities: Oxidizing agents, acid, base.

危险的分解产物: 二氧化碳, 一氧化碳。

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

第十一部分 毒理学资料 Section 11 - Toxicological Information

对毒理学影响的信息

Information on toxicological effects

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急性毒性 LC50/LD50: 无相关详细资料。

Acute toxicity LD/LC50 Values relevant for classification: Not available.

注: LC50: 半数致死浓度 (lethal concentration, 50 percent kill)

LD50: 半数致死剂量 (lethal dose, 50 percent kill)

皮肤刺激/腐蚀: 无相关详细资料。

Skin irritation/corrosion: No further relevant information available.

眼睛刺激/腐蚀: 无相关详细资料。

Eyes stimulus/corrosion: No further relevant information available.

呼吸或皮肤过敏: 无相关详细资料。

Breathing or skin irritation: No further relevant information available.

生殖细胞突变性: 无相关详细资料。

Germ cell respectively: No further relevant information available.

致癌性: 无相关详细资料。

Carcinogenicity: No further relevant information available.

生殖毒性: 无相关详细资料。

Reproductive toxicity: No relevant details information.

特异性靶器官系统毒性——一次性接触: 无相关详细资料。

Specific target organ system toxicity disposable contact: No further relevant information available.

特异性靶器官系统毒性——反复接触: 无相关详细资料。

Specific target organ system toxicity, repeated contact: No further relevant information available.

吸入危害: 无相关详细资料。

Inhalation hazard: No further relevant information available.

潜在的有害效应: 无相关详细资料。

Potentially harmful effects: No further relevant information available.

第十二部分 生态学资料 Section 12 - Ecological Information

生态毒性

Ecological toxicity

水生毒性: 无相关详细资料。

Aquatic toxicity: No further relevant information available.

持久性和降解性: 无相关详细资料。

Persistence and degradability: No further relevant information available.

环境系统习性

Behaviour in environmental systems

潜在的生物累积性: 无相关详细资料。

Bioaccumulative potential: No further relevant information available.

土壤内移动性: 无相关详细资料。

Mobility in soil: No further relevant information available.

生态学资料

Ecological effects

额外的生态学资料: 无相关详细资料。

Additional ecological information : No further relevant information available.

总括注解: 若无政府许可, 勿将材料排入周围环境。

General notes: Do not allow material to be released to the environment without proper governmental permits.

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其他副作用：无相关详细资料。

Other adverse effects: No further relevant information available.

第十三部分 废弃处置

Section 13 - Disposal Considerations

废弃处置方法建议：请参考国家和地方的相关法规正确进行处理。

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议：必须根据官方的规章来丢弃。

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

第十四部分 运输信息

Section 14 - Transport Information

	IATA	IMDG
联合国危险货物编号 UN Number	UN3480 UN3481	UN3480 UN3481
UN 运输专用名称 UN Proper shipping name	锂离子电池 Lithium Ion Batteries 锂离子电池与设备打包 Lithium Ion Batteries Packed With Equipment 锂离子电池装在设备中 Lithium Ion Batteries Contained In Equipment	锂离子电池 Lithium Ion Batteries 锂离子电池与设备打包 Lithium Ion Batteries Packed With Equipment 锂离子电池装在设备中 Lithium Ion Batteries Contained In Equipment
运输危险等级 Transport hazard class(es)	9	9
包装组别 Packing group	II	II
海运污染物质 Marine pollutant	否 No	

注：IATA：国际空运联合会（International Air Transport Association）

IMDG：国际海运危险货物（International Maritime Dangerous Goods）

运输信息：该锂电池（LIR1254 3.6V 55mAh）已通过UN38.3测试。

Transport information: The Lithium Battery (LIR1254 3.6V 55mAh) has passed the test UN38.3.

电池包装（LIR1254 3.6V 55mAh）应遵守IATA DGR 60th版包装说明965/966/967的运输要求。

The package of battery (LIR1254 3.6V 55mAh) should be complied with the requirements of Packing Instruction 965/966/967 of IATA DGR 60th Edition for transportation.

电池包装（LIR1254 3.6V 55mAh）应遵守IMDG（39-18）或“关于危险货物运输的规章范本”20th的特殊规定188。

The package of battery (LIR1254 3.6V 55mAh) should be complied with the requirements of 188 of IMDG (39-18) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th).

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更多关于锂离子电池运输, 测试, 包装等相关规定请参见网址<http://www.labelmaster.com>.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

电池相互隔开并防止短路, 泄露, 并装放在结实的容器内运输。

注: 该电池在运输过程中应防止剧烈振动、冲击或挤压, 防止日晒雨淋。具体细节请参照本文第七部分操作处置与储存。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

备注: 电池净重 < 5kg(空运, 电池与设备打包运输)。

Note: Batteries weight in the package < 5kg(By air, Batteries packed with equipment).

备注: 电池净重 < 5kg(空运, 电池装在设备中运输)。

Note: Batteries weight in the package < 5kg(By air, Batteries installed in equipment).

运输方式: 空运, 海运。

Transport Fashion: By air, by sea.

第十五部分 法规信息

Section 15 - Regulatory Information

此MSDS符合法规 (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

下列法律、法规、规章和标准对该物质或混合物的管理做了相应的规定:

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
不锈钢 Stainless Steel	12597-68-1	列入 Listed	未列入 Not Listed	未列入 Not Listed	未列入 Not Listed
聚丙烯 Polypropylene	9003-07-0	列入 Listed	列入 Listed	DSL	未列入 Not Listed
二氧化锰 Manganese Dioxide	1313-13-9	列入 Listed	列入 Listed	DSL	列入 Listed
锂板 Lithium Sheet	7439-93-2	列入 Listed	列入 Listed	DSL	列入 Listed
高氯酸锂 Lithium Perchlorate	7791-03-9	列入 Listed	列入 Listed	DSL	列入 Listed
1,3-二氧戊环 1,3-Dioxolane	646-06-0	列入 Listed	列入 Listed	DSL	列入 Listed
乙二醇二甲醚 1,2-Dimethoxyethane	110-71-4	列入 Listed	列入 Listed	DSL	列入 Listed
石墨 Carbon	7782-42-5	列入 Listed	列入 Listed	DSL	列入 Listed
碳酸丙烯酯 Propylene Carbonate	108-32-7	列入 Listed	列入 Listed	DSL	列入 Listed
玻璃纤维 Fiberglass Diaphragm	65997-17-3	列入 Listed	列入 Listed	DSL	列入 Listed

注: EINECS: 欧盟现有化学物质名录 (European Inventory of Existing Chemical Substances)

ELINCS: 欧洲已申报化学物质名录 (European List of Notified Chemical Substances)

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DSL: 加拿大国内化学物质名录 (Canadian Domestic Chemical Substances)
IECSC: 中国现有化学物质名录 (Inventory of Existing Chemical Substances in China)
NDSL: 加拿大非国内化学物质名录 (Canadian non-domestic Chemical Substances)
NLP: 欧盟不被认为是聚合物的名录
TSCA: 美国TSCA物质名录 (Toxic Substances Control Act of USA)

第十六部分 其他信息
Section 16 - Additional Information

注意 Declare to reader:

上述信息是基于现有的数据信息, 在实际应用过程中可能出现其他未预料的情况, 其相应信息可能需要修改, 我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

主检人 Prepared by

王明

审核人 Checked by

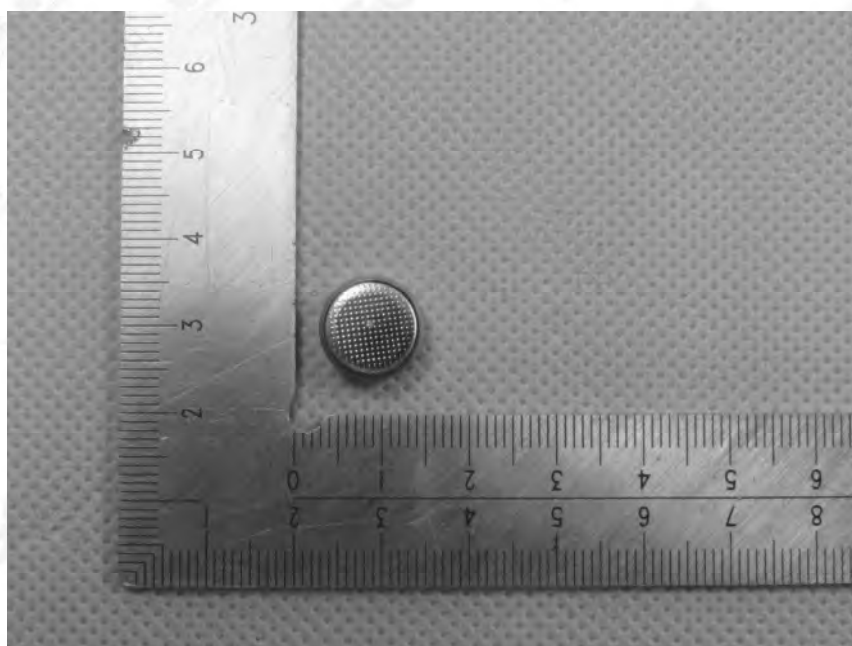
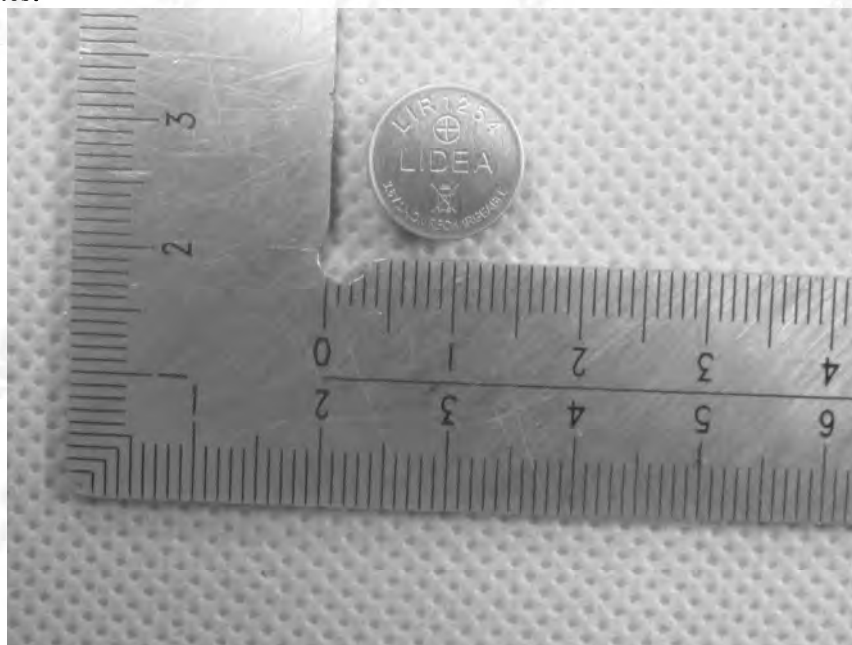
薛佳佳

批准人 Approved by

祝志伟

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The client should provide samples and relevant data, otherwise we will not bear any relevant responsibilities.

----报告结束---

End of report

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