

Prepared according to 29CFR 1910.1200, Regulation (EC) No. 1272/2008 (GHS) and Canadian Hazardous Product Regulation

**SDS EXEMPTION NOTICE:**

The battery powered products, and the batteries they contain, covered in this document are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

Safety Data Sheets (SDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article." OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because all of our battery powered products and the batteries they contain are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence an OSHA SDS in accordance with the Global Harmonized System (GHS) is not required.

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** SOL Venture Light 3000**HMIS Hazard Rating**

Health Not Applicable

Flamability Not Applicable

Reactivity Not Applicable

Personal Protection Not Applicable

**SYNONYMS:**Item NumberItem Name

0140-1305

SOL Venture Light 3000 Recharge with Power Bank

**SDS Date:** March 16, 2021**SDS Revision No.:** 0**USE:** Lantern, battery-powered.**MANUFACTURER:** Adventure Ready Brands**ADDRESS:** 944 Industrial Park Rd  
Littleton, NH 03561**INFORMATION CALLS:** 800-258-4696**E-Mail:** cs@adventurereadybrands.com**FAX PHONE:** 603-444-6735**EMERGENCY PHONE:** Spills:(800) 354-2382 (Veolia)

Medical Information:(800) 258-4696 (Adventure Ready Brands)

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**SECTION 2: HAZARDS IDENTIFICATION**

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**CAUTION: LITHIUM BATTERIES INSIDE.** This equipment contains one (1) Secondary (Rechargeable) Lithium Ion battery. The battery is sealed in the equipment and cannot be removed or replaced unless the equipment is damaged or abused. Do not damage or mishandle the packages. If package is damaged, flammability hazard may exist; equipment must be quarantined, inspected, and repacked.

**CAUTION:** Batteries inside the equipment can explode or leak if heated, disassembled, shorted, recharged incorrectly, exposed to fire or high temperature or reinstalled incorrectly. Do not remove batteries from equipment. Do not carry batteries loose in your pocket or purse. Keep this equipment and the batteries contained inside away from children. If swallowed, consult a physician at once. Under certain misuse conditions and by abusively opening the battery, exposed lithium can react with water or moisture in the air causing potential thermal burns or fire.

**Physical Appearance:** The equipment contains a small rectangular shaped or cylindrical shaped battery pack. The battery and its contents present the hazard. The battery is sealed inside the equipment and can only be removed if the equipment is damaged or abused. The battery is not replaceable and should never be removed from the equipment.

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**Battery Description:**

0140-1305 SOL Venture Light 3000

Battery Model: 163450

Type: Lithium Ion Battery      Rated Capacity: 3000 mAh      Nominal Voltage: 3.7 V

Watt-hours (Wh) = 3000 mAh x (1 A/1000 mA) x 3.7 V = 11.1 Wh

Equivalent Lithium Content = 3000 mAh x (1 A/1000 mA) x 0.3 gram/Ah = 0.9 gram

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 4: FIRST AID MEASURES**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 5: FIRE-FIGHTING MEASURES**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 7: HANDLING AND STORAGE**

**WARNING:**

Do not look directly into LED light for more than a few seconds. Do not allow children to use LED light unless under supervision of an adult.

**CAUTION:**

Do not allow light to get wet or immerse in water.

**CAUTION: CONTAINS RECHARGEABLE LITHIUM-ION BATTERY.**

Do not crush, puncture, disassemble, heat above 120°F (50°C), or put in fire. Do not short circuit or modify. Misuse can cause fire, explosion, and personal injury.

Battery is NOT replaceable. Dispose of or recycle properly in accordance with local regulations.

**USE ONLY AS DIRECTED. REFER TO THE INSTRUCTIONS, WARNINGS, AND PRECAUTIONS ON THE PACKAGE AND/OR IN THE USER'S MANUAL.**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 10: STABILITY AND REACTIVITY**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 12: ECOLOGICAL INFORMATION**

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Follow local, state, and federal regulations covering the recycling and/or disposal of electronic devices containing lithium-ion batteries.

**REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.**

**SECTION 14: TRANSPORT INFORMATION**
**SHIPPING INFORMATION:**
**Marine Pollutant: \*\*See Below**

Regulation	UN No.	Proper Shipping Name	Class	Package Group	Additional Information
U.S. Department of Transportation (DOT)	UN3481	Lithium Ion Batteries Contained in Equipment	9	--	Excluded from requirements. See Note 1.
Canadian Transportation of Dangerous Goods (TDG)	UN3481	Lithium Ion Batteries Contained in Equipment	9	--	Excluded from requirements. See Note 2.
International Maritime Dangerous Goods (IMDG)	UN3481	Lithium Ion Batteries Contained in Equipment	9	--	Excluded from requirements. See Note 3.
International Air Transport Assoc. (IATA)	UN3481	Lithium Ion Batteries Contained in Equipment	9	--	Excluded from requirements. See Note 4.

Note 1. When packaged and labeled in compliance with DOT Hazardous Material Regulation (HMR) 49 CFR 173.185(c) (< 20 Watt-hours for lithium ion cell; < 100 Watt-hours for lithium ion battery), this item is not subject to other requirements of the regulations. This exception applies to small lithium cells or batteries.

Note 2. When packaged and labeled in compliance with Canadian TDG Special Provision 34 (< 20 Watt-hours per cell; < 100 Watt-hours per battery), this item is not subject to other requirements of the regulations.

Note 3. When packaged and labeled in compliance with IMDG Code Special Provision 188 (< 20 Watt-hours per cell; < 100 Watt-hours per battery), this item is not subject to other requirements of the regulations.

Note 4. When packaged and labeled in compliance with IATA Dangerous Goods Regulation (DGR) Packing Instruction (PI) 967, Section II (< 20 Watt-hours per cell; < 100 Watt-hours per battery), this item is not subject to other requirements of the regulations.

Your selected ground, air, rail, or sea carrier may have additional documentation or pre-authorization requirements. Check with your selected carrier before shipping.

Each lithium cell or battery model contained in the equipment covered by this SDS has passed the applicable tests specified in UN Manual of Tests and Criteria, Part III, Subsection 38.3. See the UN 38.3 Test Summary (TS) attached.

The transportation regulations are cited according to international regulations and in the form applicable to the United States and Canada. Possible national deviations in other countries are not considered.

**\*\*REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.**

Prepared according to 29CFR 1910.1200, Regulation (EC) No. 1272/2008 (GHS) and Canadian Hazardous Product Regulation

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:**

This product is a manufactured article and, as such, does not require an SDS per the OSHA) Hazard Communication Standard, 29 CFR 1910.1200

**Compliance with FCC Regulations**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**U.S. STATE REGULATIONS:**

**California Proposition 65 Warning:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**States Right to Know:** Not applicable to articles.

**CANADIAN REGULATIONS:**

This product is a manufactured article and, as such, does not require an SDS per the Hazardous Product Act and the Hazardous Product Regulation (HPR).

**Industry Canada**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**EU REGULATIONS:**

This product is a manufactured article and, as such, does not require an SDS per Regulation (EC) No. 1272/2008 (GHS).

Directive 2011/65/EU on The Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) and its amendment Directive (EU) 2015/863.

Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE).

Directive 2014/30/EU on Electromagnetic Compatibility (EMC).

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**SECTION 16: OTHER INFORMATION**

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**REVISED SECTIONS OR REASON FOR REVISION:**

ORIGIN DATE: MARCH 16, 2021

**DISCLAIMER:** The information provided herein was believed to be accurate, to the best knowledge of Aventure Ready Brands, at the time of preparation from a compilation of sources believed to be reliable and is furnished without warranty, expressed or implied. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling, storage and use of this product and to determine the suitability of the product for its intended use. This data sheet relates only to the specific product listed and does not relate to use in combination or in any process with other materials.

## **Material Safety Data Sheet**

### **化学品安全技术说明书**

#### **Section 1 - Chemical Product and Company Identification**

##### **第一部分 化学品及企业标识**

**Product Name:** Li-ion Battery

产品名称: 锂离子电池

**Model/Type:** 163450 3000mAh 3.7V 11.1Wh

型号/类型: 163450 3000mAh 3.7V 11.1Wh

**Manufacturer:** Ningbo Lanqi Electronic Technology CO.,LTD.

生产企业名称: 宁波蓝琦电子科技有限公司

**Address:** building 1, No. 6, Yunlin East Road, Gulin Town, Haishu District, Ningbo City, Zhejiang Province

地址: 浙江省宁波市海曙区古林镇云林东路6号1号楼

**Post Code:** 315012

邮编: 315012

**Tel:** 0574-87200933

电话: 0574-87200933

**Emergency Telephone:** 0574-87200933

应急电话: 0574-87200933

**Fax:** 0574-87970702

传真: 0574-87970702

**E-mail:** carrol@lanqibattery.com

邮箱: carrol@lanqibattery.com

## SECTION 2 HAZARDS IDENTIFICATION

### 第二部分 危险性概述

Hazards Identification 危害识别:

Lithium batteries itself are classified to Class 9 Dangerous Goods, Miscellaneous dangerous substances and articles.

锂电池本身被归类在第九类危险品——杂项危险物质和物品。

The sealed intact battery is not hazardous in normal use.

密封完好的电池在正常使用下不存在危险性。

Emergency Overview 应急概况:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery. 注意: 避免接触和吸入蓄电池内的电解液。

## SECTION 3 INFORMATION ON INGREDIENTS

### 第三部分 成分/组成信息

Chemical Composition 化学名称	Chemical Formula 分子式	CAS No: CAS 号:	Weight(%) 百分含量 (%)	
Nickel cobalt manganese 三元(镍钴锰)	$LiNi_xCo_yMn_{1-x-y}O_2$	182442-95-1	47	
Graphite 石墨	C	7782-42-5	20.2	
Organic Electrolyte 有机电解液	碳酸乙烯酯(EC)	C <sub>3</sub> H <sub>4</sub> O <sub>3</sub>	96-49-1	3.35
	碳酸甲乙酯 (EMC)	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub>	623-53-0	0.785
	碳酸二乙酯 (DEC)	C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	105-58-8	5.23
	碳酸丙烯酯 (PC)	C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>	108-32-7	1.785
	六氟磷酸锂 (LiPF <sub>6</sub> )	F <sub>6</sub> LiP	21324-40-3	1.35
Polypropylene 聚丙烯	C <sub>3</sub> H <sub>6</sub>	9003-07-0	1.2	
Copper 铜	Cu	7440-50-8	7.7	

Aluminum 铝	Al	7429-90-5	4.6
Nickel 镍	Ni	7440-02-0	6.8

## SECTION 4 FIRST-AID MEASURES

## 第四部分 急救措施

**Skin Exposure:** If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water.

皮肤接触：若接触到电池内的物质，立即用肥皂和大量清水彻底清洗皮肤。

**Eye Exposure:** In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

眼睛接触：若接触到电池内的物质，立即提起眼睑，用流动清水冲洗 15 分钟以上。

**Inhalation Exposure:** If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention.

吸入：若吸入电池内的物质，立即脱离现场至空气新鲜处。

**Oral Exposure:** If swallowed the internal materials of battery, do not induce vomiting. Seek immediate Medical attention.

食入：若食入电池内的物质，不宜催吐，立即就医。

## SECTION 5 FIRE FIGHTING MEASURES

## 第五部分 消防措施

**Extinguishing Media:**

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

灭火方法及灭火剂：可用干粉、砂土、泡沫和二氧化碳灭火。

**Firefighting:**

Protective Equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

灭火注意事项及措施：消防员应戴自给正压式呼吸器，穿消防防护服以防止皮肤和眼睛的接触。

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 第六部分 泄露应急处理

**Procedure of Personal Precaution:**

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material(e.g. Dry sand, vermiculite) and transfer to sealed container for disposal.

应急处理：若电池内的物质泄露，用洁净铲子收集于干燥、洁净、有盖的容器中待处置。处理人员应穿合适的防护服。

## SECTION 7 HANDLING AND STORAGE

### 第七部分 操作处置与储存

**Handling:** Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to Avoid: Strong oxidizing agents, Corrosives.

操作处置注意事项：操作人员应经过培训，严格遵守操作规程。建议操作人员穿一般作业防护服，带安全手套。远离火种、热源，避免阳光直射。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池和弄错正负极。须牢记在内包装中，以有效防止短路和防止可导致短路的移动。万一电池内的物质泄露，避免眼睛、皮肤直接接触，避免吸入。应与强氧化剂、腐蚀品分开存放。

**Storage:** Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could to short circuits. Materials to Avoid: Strong oxidizing agents, Corrosives.

储存注意事项：储存于阴凉、通风的库房内。远离火种、热源，避免阳光直射。应与强氧化剂、腐蚀品分开存放。储存区配备相应品种和数量的消防器材、泄露应急处理设备和合适的收容材料。

## SECTION 8 EXPOSURE CONTROL/PPE

### 第八部分 接触控制/个体防护



**Engineering Control 工程控制:**

Keep away from heat and open flame. Supply with sufficient partial air exhaust. Store in a cool, dry place. 远离热源和明火。提供足够的局部排气。存放在阴凉干燥的地方。

**Respiratory Protection 呼吸保护:**

Not necessary under conditions of normal use. Wear self-contained breathing filtermask if the density exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation.

在正常使用条件下不需要。如果环境内气体密度超过空气中的密度，请佩戴自给式呼吸过滤器。在紧急救援或疏散的情况下，佩戴呼吸器。

**Eyes Protection 眼睛保护:**

Not necessary under conditions of normal use. Wear protective glasses if handling a leaking or ruptured battery. 在正常使用条件下不需要。如果处理泄漏或破裂的电池，请戴上防护眼镜。

**Skin and Body Protection 皮肤和身体保护:**

Not necessary under conditions of normal use. Wear fireproofing, gas defense clothes in case of handling a leaking or ruptured battery.

在正常使用条件下不需要。在处理泄漏或破裂的电池时，穿上防火防毒服。

**Hands Protection 手部保护:**

Not necessary under conditions of normal use. Wear chemical resistant rubber glove. 在正常使用条件下不需要。耐磨耐化学腐蚀橡胶手套。

**Other Protections 其他保护:**

No smoking, dining and drinking water in the workplace. Keep good habit of hygiene. 工作场所禁止吸烟、就餐和饮水。保持良好的卫生习惯。

## SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

### 第九部分 理化特征

Appearance: 外观与性状:	Prismatic battery 方形电池
Odor: 气味:	Odorless 无臭
Melting Point/°C: 熔点:	>300°C >300°C
Solubility: 溶解性:	Partial soluble in water 部分溶于水

## SECTION 10 STABILITY AND REACTIVITY

### 第十部分 稳定性与反应活性

**Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

**Materials to Avoid:**

Strong oxidizing agents, Corrosives.

**Hazardous Polymerization:**

Will not occur.

**Hazardous Decomposition Products:**

Metal oxides, CO, CO2.

稳定性:	常温常压下稳定
避免接触的物质:	强氧化剂、腐蚀品。
避免接触的条件:	误操作, 高温, 防止短路和防止可导致短路的移动。
聚合危害:	不聚合。
有害分解产物:	金属氧化物、CO/CO2 等。

**SECTION 11 TOXICOLOGICAL INFOPMATION**

**第十一部分 毒理学资料**

**Toxicity Data:**

Not available.

**Irritation Data:**

The internal battery mater ials may cause irritatin to eyes and skin.

急性毒性:	无资料
刺激性:	其中的电解质对眼睛、皮肤有刺激性。

**SECTION12 ECOLOGICAL INFORMATION**

**第十二部分 生态学资料**

No data available.

生态毒性:	无资料
生物降解性:	无资料
非生物降解性:	无资料

**SECTION 13 DISPOSAL CONSIDERATION**

**第十三部分 废气处理**

**Appropriate Method of Disposal of Substance:**

Lithium batteries are best disposed of as a non-hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

**废弃处置方法:** 废弃电池的处置应符合《中华人民共和国固体废物污染环境防治法》,《废电池污染防治技术政策》等有关法律、法规、政策和标准的要求。

## SECTION 14 TRANSPORT INFORMATION

### 第十四部分 运输信息

**运输标签:** 锂电池标记, 第9类锂电池危险品标签, 仅限货机标签

Label for conveyance: Lithium Battery Mark, class 9 lithium battery hazard label, Cargo Aircraft Only Label.

**UN 编号:** UN3480

**UN Number:** UN3480

**包装级别:** 不适用

**Packaging Group:**N/A

**Ems 编号:** F-A, S-I

**Ems No:** F-A, S-I

**海洋污染物:** 无

**Marine pollutant:**No

**正确的装运名称:** 锂电子电池 (包括锂离子聚合物电池)

**Proper Shipping name:**Lithium ion batteries (Including lithium ion polymer batteries)

**危险分类:** 货物符合 IATA 第 62 版《危险品规则》包装说明 965 第 IB 节规定(2021 年版),《国际海运危险货物规则》特殊规 188 海运危险货物规则 (Amdt. 39-18) 2018 版, 包括通过 UN38.3 测试手册要求。

**Hazard Classification:** The goods are complied with the requirements of Section IB of Packing instruction 965 of 62<sup>nd</sup> DGR Manual of IATA(2021 Edition), special provision 188 of IMDG CODE ( Amdt. 39-18 ) 2018 Edition, including the passing of the UN38.3 test.

#### **OR:**

**或者:**

**运输标签:** 锂电池操作标记

Label for conveyance: Lithium Battery Mark

**UN Number:** UN3481

**包装级别:** 不适用

**Packaging Group:**N/A

**Ems 编号:** F-A, S-I

**Ems No:** F-A, S-I

**海洋污染物:** 无

Marine pollutant:No

正确的装运名称: 安装在设备中的锂离子电子电池(包括锂离子聚合物电池)/与设备包装在一起的锂离子电池(包括锂离子聚合物电池)

Proper Shipping name:Lithium ion batteries contained in equipment(Including lithium ion polymer batteries)/Lithium ion batteries packed with equipment (Including lithium ion polymer batteries)

危险分类: 货物符合 IATA 第 62 版《危险品规则》包装说明 966/967 第 II 节规定(2021 年版),《国际海运危险货物规则》特殊规 188 海运危险货物规则(Amdt. 39-18) 2018 版, 包括通过 UN38.3 测试手册要求。

Hazard Classification: The goods are complied with the requiremants of Section II of Packing instruction 966/967 of 62<sup>nd</sup> DGR Manual of IATA(2021Edition), special provision 188 of IMDG CODE (Amdt. 39-18) 2018 Edition, including the passing of the UN38.3 test.

## SECTION 15 REGULATORY INFORMATION

### 第十五部分 法规信息

#### ICAO:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN3840, PI 965) and lithium metal Cell/batteries (UN3090, PI 968) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
3. A shipper is not permitted to offer for transport more than one (1) package prepared according to section II of PI 965 and PI 968 may be placed into an overpack.
4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

#### 国内法规:

本品运输时在 GB12268-2012《危险货物物品名表》中的编号为: 3480/3481。  
该型号锂电池通过联合国《关于危险货物运输的建议书 试验和标准手册》UN38.3 试验, 根据《危险货物物品名表》中的特殊规定, 不作为危险货物运输。  
本品在《铁路危险货物物品名表》(2009 版)中的铁危编号为: 91013/91014。

#### ICAO:

1. 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)(UN3480, PI 965)和锂金属电池(芯)(UN 3090, PI 968)货物禁止使用客机运输。
2. 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%。

3.在任何一票货物中,按照包装说明 968 第 II 节或 968 第 II 节要求运输的锂电池货物包装件不得超过一个。每个集合包装中所装的按照包装说明 965 第 II 节或 968 第 II 节要求运输的锂电池货物包装件不得超过一个。

4.按照包装说明 965 或 968 第 II 节要求运输的锂电池货物包装件或集合包装必须与其他货物分开交运,且在交运前不得装入集装箱。

## SECTION 16 OTHER INFORMATION

### 第十六部分 其他信息

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 person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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#### DISCLAIMER:

免责声明:

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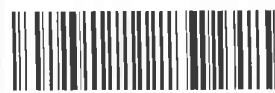
Creation Date : JAN 06 , 2021

完成日期: 2021 年 01 月 06 日



# UN38.3 试验概要

## UN38.3 Test Summary

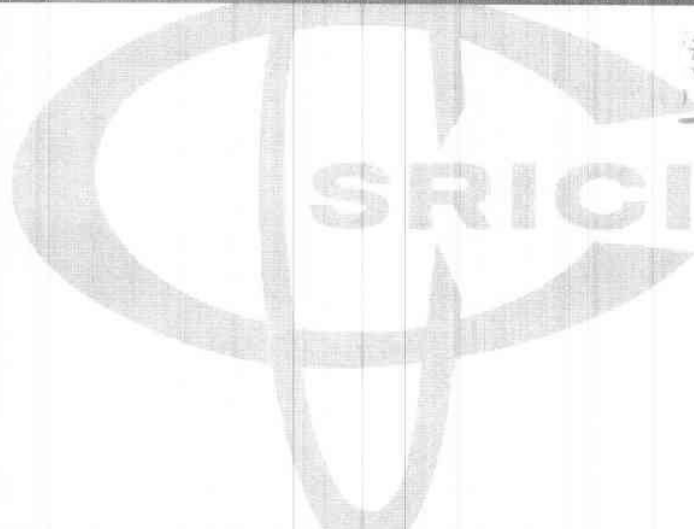
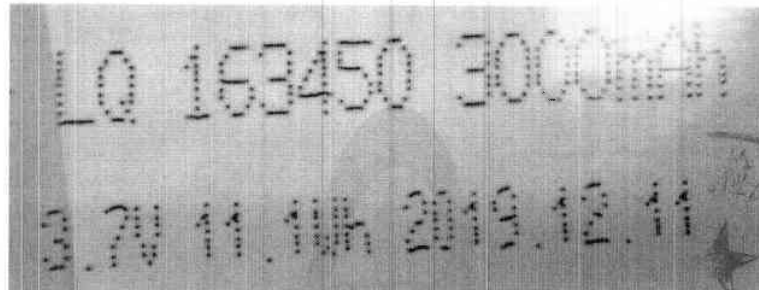
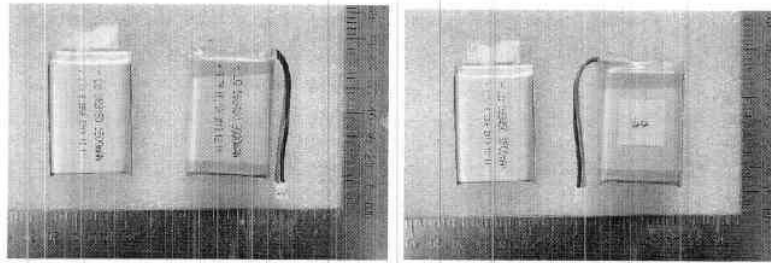


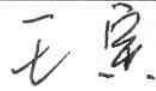
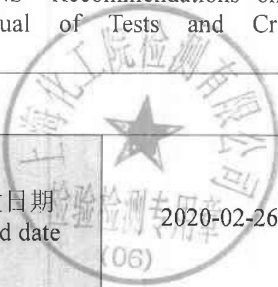
812000100617751

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生产单位 Manufacturer	宁波蓝琦电子科技有限公司 Ningbo Lanqi Electronic Technology CO.,LTD. 宁波市江东区百丈东路 648 弄 6 号(9-17) 6 Lane 648, Baizhang East Road, Jiangdong District, Ningbo (9-17) 13105748071 carrol@lanqibattery.com www.lanqibattery.com		
测试单位 Test lab	上海化工院检测有限公司 Shanghai Research Institute of Chemical Industry Testing Co., Ltd. 中国.上海.普陀区云岭东路 345 号, 200062 No.345 East Yunling Road, Putuo, Shanghai, China 200062 86-21-31765555 battery@ghs.cn www.ghs.cn		
电池信息 Battery information			
名称 Name	聚合物锂离子电池 Polymer lithium-ion	品牌 Brand	/
型号 Type	163450	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	3.7	容量/能量 Capacity/energy	3000mAh 11.1Wh
描述 Description	可充电锂离子电池组 Rechargeable Li-ion battery	锂含量(g) Li content	/
质量(kg) Mass	0.0560	外观 Appearance	银色, 黄色铝塑外壳 silvery and yellow aluminum-plastics shell
测试信息 Test information			
原报告编号 Original test report No.	1119120334	测试报告日期 Date of test report	2020-02-13
测试标准 Test standard	联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria 38.3 ST/SG/AC.10/11/Rev.6/Amend.1		
T.1 高度模拟 Altitude simulation	合格 Passed	T.2 温度测试 Thermal test	合格 Passed
T.3 振动测试 Vibration	合格 Passed	T.4 冲击测试 Shock	合格 Passed
T.5 外部短路 External short circuit	合格 Passed	T.6 挤压 Crush	合格 Passed
T.7 过度充电 Overcharge	合格 Passed	T.8 强制放电 Forced discharge	合格 Passed
38.3.3 (f)	/	38.3.3 (g)	/



样品图片 Sample Picture



<p>结论 Conclusion</p>	<p>测试样品符合联合国《关于危险货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.6/Amend.1 38.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1 38.3</p>	
<p>备注 Remark</p>	<p>/</p>	
<p>签名 Signature 职务 Title</p>	<p> 王寅 副总工程师 Vice chief engineer</p>	<p>签发日期 Issued date 2020-02-26</p> 

-验证码:268977-

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