

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.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SOL Venture Headlamp Recharge**HMIS Hazard Rating**

Health	Not Applicable
Flamability	Not Applicable
Reactivity	Not Applicable
Personal Protection	Not Applicable

SYNONYMS:

<u>Item Number</u>	<u>Item Name</u>
0140-1303	SOL Venture Headlamp Recharge

SDS Date: March 12, 2021**SDS Revision No.:** 0**USE:** Drinking water storage bottle with built-in, battery-powered lantern.**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)

SECTION 2: HAZARDS IDENTIFICATION

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.

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

Battery Description:

0140-1303 SOL Venture Headlamp Recharge

Battery Model: WT 602535

Type: Lithium Ion Battery Rated Capacity: 500 mAh Nominal Voltage: 3.7 V

Watt-hours (Wh) = 500 mAh x (1 A/1000 mA) x 3.7 V = 1.85 Wh

Equivalent Lithium Content = 500 mAh x (1 A/1000 mA) x 0.3 gram/Ah = 0.15 gram

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4: FIRST AID MEASURES

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

SECTION 5: FIRE-FIGHTING MEASURES

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

WARNING:

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

CAUTION:

Do not immerse headlamp 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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

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

SECTION 15: REGULATORY INFORMATION

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

U.S. STATE REGULATIONS:

California Proposition 65 Warning: Cancer and Reproductive Harm - 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).

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).

SECTION 16: OTHER INFORMATION

REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: MARCH 12, 2021

DISCLAIMER: The information provided herein was believed to be accurate, to the best knowledge of Adventure 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.



三帕认证

Material Safety Data Sheet

化学品安全技术说明书

Product Name 产品名称: Rechargeable Li-ion Battery
可充电锂离子电池

Model 型号: WT 602535

Issue Date 签发日期: 2020.12.07

Effective date 生效日期: 2021.01.01

Report No. 报告号: NBHT20201207MSDS53

Compiler 编制: Max Feng

Reviewer 审核: Tracy Chen

Approver 批准: Leo Chi

广州三帕认证技术服务有限公司

Guangzhou CP-UP Certification Technology Service Co., Ltd.



Tel: 86-020 3112 7037 Email: info@cp-up.com Website: www.cp-up.com



Section 1 - Chemical and Company Identification 第一部分-化学品及企业标识		
Product Name 产品名称	Rechargeable Li-ion Battery 可充电锂离子电池	
Model/型号	WT 602535	
Ratings/额定参数	3.7V,500mAh,1.85Wh	
Applicant 申请商	Ningbo Huitong New Energy Technology Co., Ltd. 宁波慧通新能源科技有限公司	
Applicant address 申请商地址	Room16-15/16, nr. 39, Lane 158, Southern Section of City West, Haishu District, Ningbo 浙江省宁波市环城西路南段 158 弄 39 号(16-15)(16-16)室	
Manufacturer 制造商	Ningbo Huitong New Energy Technology Co., Ltd. 宁波慧通新能源科技有限公司	
Manufacturer Contact information 制造商联系信息	address 地址	Room16-15/16, nr. 39, Lane 158, Southern Section of City West, Haishu District, Ningbo 浙江省宁波市环城西路南段 158 弄 39 号(16-15)(16-16)室
	Tel./应急电话	86-0574-87681913
	Email/邮箱	yancheng@huitong-energy.com
	Zip code/邮编	315012
	Fax/传真	N/A

Section 2 - Hazards Identification 第二部分-危险性概述
<p>Hazards Identification: 危险性描述</p> <p>Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful. 正常使用没有危险，不能拆解、打开或分解电池，里面的材料或成分是有害的。</p>
<p>Primary Route (s) of Exposure: 接触途径</p> <p>inhalation, ingestion, Skin contact and Eye contact. 吸入、食入、皮肤接触、眼睛接触。</p>
<p>Potential Health Effects: 潜在健康影响</p> <p>inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation. 吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。</p> <p>Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. 食入: 电池的组成成分或原料可以导致嘴，食道和胃肠道的严重化学烧伤。</p> <p>Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin. 皮肤: 皮肤接触到电池的內部化学材料可能会导致严重的刺激或烧伤皮肤。</p> <p>Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye. 眼睛: 眼睛接触到电池的內部化学材料可能会导致严重的刺激或烧伤眼睛。</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 (化学文摘索引登记号)	Concentration or concentration ranges (%) 浓度或浓度范围(%)
镍钴锰酸锂 /Lithium nickel cobalt manganese oxide	12190-79-3	42.7
聚偏氟乙烯/ Fluoride(PVDF) Polyvinylidene	24937-79-9	0.8
铝/ Aluminium(Al)	7429-90-5	4.1
石墨/ Graphite	7782-42-5	22.7
丁苯橡胶/ Rubber (SBR) Styrene-Butadiene	61789-96-6	0.4
羧甲基纤维素 / Carboxymethylcellulose	9000-11-7	0.3
铜/ Copper (Cu)	7440-50-8	9.0
镍/ Nickel (Ni)	7440-02-0	1.1
六氟磷酸锂 / Hexafluorophosphate Lithium	21324-40-3	1.9
碳酸二甲酯/Dimethyl carbonate	616-38-6	13.6
聚乙烯/ Polyethylene	9003-07-0	3.4

Note: CAS number is Chemical Abstract Service Registry Number.
注意: CAS 号是化学文摘服务注册号。
N/A=Not apply.
N/A=不适用

Section 4- First Aid Measure	
第四部分-急救措施	
Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口, 在专业人士的指导下催吐, 速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服, 用大量的水冲洗至少 15 分钟, 速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟, 如刺激持续发生, 请求助于医生。

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



Characteristics of Hazard 危险特性	Toxic fumes, gases or vapors may evolve on burning. 火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳, 二氧化碳, 锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水, 干沙等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

Section 6- Accidental Release Measure 第六部分-泄漏应急处理	
Personal Precautions, protective equipment, and emergency procedures 个人预防措施、防护装备和应急程序	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8. 限制区域, 直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个人防护设备, 如第 8 部分所示。
Environmental Precautions 环境保护措施	Prevent material from contaminating soil and from entering sewers or waterways. 防止物质污染土壤和进入下水道或水道。
Methods and materials for Containment 方法和材料控制	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 出于安全, 阻止泄漏, 可以用干沙或沙土来遏制液体泄露, 立即清理泄漏。
Methods and materials for cleaning up 清理的方法和材料	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. 用惰性吸收剂(干沙或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洁污染区域, 收集所有受污染的洗涤水进行适当处置。

Section 7- Handling and Storage 第七部分-操作处置与储存	
Handling 操作	Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery. 不要以让接头短路的方式对电池进行操作。不要打开, 分解, 挤压或燃烧电池。
Storage 储存	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. 如果电池长期存放超过 3 个月, 建议定期对电池充电。 Long period storage: 25±5°C, 60±25%R.H 长期存储: 25±5°C, 相对湿度 60±25%



	<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. 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. 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. 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. 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. 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. 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: White 外观颜色: 白色	
Physical state: Solid 物理状态: 固体	
Form: Square 形状: 方形	
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	Stable under normal temperatures and pressures. 常温常压下稳定。
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。
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	
<p>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 "</p> <p>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。</p> <p>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。</p> <p>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。</p> <p>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。</p> <p>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。</p> <p>The battery can be shipped by air in according to Section II /Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2021 IATA Dangerous Goods regulations 62nd Edition. 该电池可以根据 2021 年 IATA 危险物品规则第 62 版包装指令 965 第 II 部分/第 IB 部分或包装指令 966~967 第 II 部分运输。</p>	



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 or Lithium ion batteries contained in 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或锂离子电池内置于设备中;
 UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI965~967 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 965~967 第 II 部分)
 UN packaging group: N/A
 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;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in 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或锂离子电池内置于设备中;

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

UN packaging group: N/A

UN 包装类别: 不适用

The battery is not restricted according to IMO IMDG Code (inc Amdt 39-18).

海运按照 IMO IMDG Code (inc Amdt 39-18)可按普通货物条件办理。

Need to meet the Special Provision: international maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

需要符合这些特殊条款:国际海运危险货物规则(IMDG) 188, 230, 310, 348, 957;

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%。

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 in any single consignment. Not more than one (1) package prepared in accordance with Section II of PI 965 and PI 968 may be placed into an overpack.

在任何一票货物中, 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。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. 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.

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它货物分开交运, 且在交运前



不得装入集装箱。

Section 16 - Additional Information

第十六部分-附加信息

Compile unit 编制单位:

Guangzhou CP-UP Certification Technology Service Co., Ltd.

广州三帕认证技术服务有限公司

No.1, Aigang 7th Lane, Yunxing Zhukeng Village, Shiqiao Street, Panyu District, Guangzhou City, China 广东省广州市番禺区市桥街云星珠坑村矮岗七巷 1 号

Tel./电话: 0086-20-31127037

Web/网址: www.cp-up.com

Email/邮箱: info@cp-up.com

Revision 修订: 0

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 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--



UN38.3 试验概要

UN38.3 Test Summary

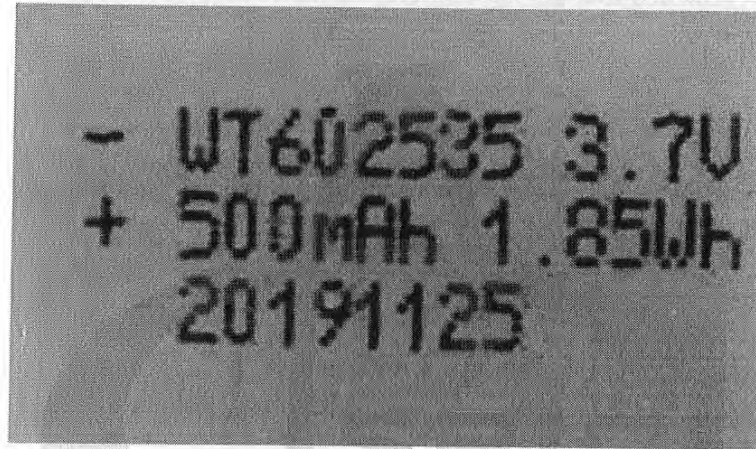
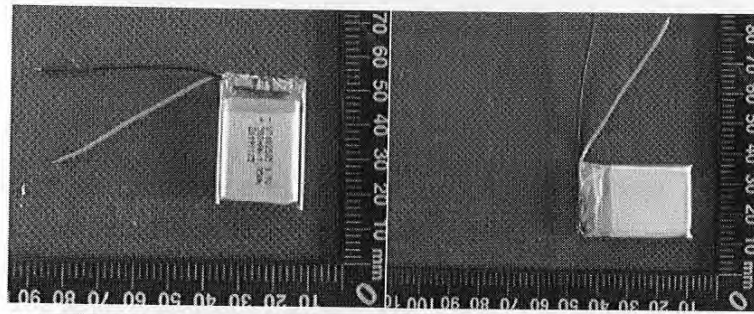


812000800107331

单位信息 Company information			
委托单位 Consignor	宁波慧通新能源科技有限公司 Ningbo Huitong New Energy Technology Co., Ltd. 浙江省宁波市环城西路南段 158 弄 39 号(16-15)(16-16)室 Room16-15/16, nr. 39, Lane 158, S outhern Section of City West, Haish u District, Ningbo 0574-87681913 yancheng@huitong-energy.com /		
生产单位 Manufacturer	宁波慧通新能源科技有限公司 Ningbo Huitong New Energy Technology Co., Ltd. 浙江省宁波市环城西路南段 158 弄 39 号(16-15)(16-16)室 Room16-15/16, nr. 39, Lane 158, S outhern Section of City West, Haish u District, Ningbo 0574-87681913 yancheng@huitong-energy.com /		
测试单位 Test lab	中国电子技术标准化研究院 China Electronics Standardization Institute 北京市东城区安定门东大街1号 NO.1, ANDINGMENDONGDAJIE, BEIJING, CHINA 010-64102186 liuchao@cesi.cn http://www.cesi.cn/page/index.htm		
电池信息 Battery information			
名称 Name	可充电锂离子电池 Rechargeable Li-ion Battery	品牌 Brand	/
型号 Type	WT 602535	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	3.7	容量/能量 Capacity/energy	500mAh 1.85Wh
描述 Description	可充电锂离子单电芯电池 Rechargeable Li-ion single cell battery	锂含量(g) Li content	/
质量(kg) Mass	0.0105	外观 Appearance	银色铝箔外壳 Silvery aluminum foil shell
测试信息 Test information			
原报告编号 Original test report No.	S19-B1263	测试报告日期 Date of test report	2019-12-24
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>王寅 签发日期 Issued date</p>	<p>2020-01-13</p>

-验证码:176332-

报告结束