

SOL Floating Lantern with Power Bank Document No. SDS-0140-1310, Revision: 0 Issue Date: July 23, 2021 Revision Date: July 23, 2021

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 Floating Lantern with Power Bank

HMIS Hazard Rating

Health Not Applicable
Flammability Not Applicable
Reactivity Not Applicable
Personal Protection Not Applicable

SYNONYMS:

<u>Item Number</u> <u>Item Name</u> <u>UPC</u>

0140-1310 SOL Floating Lantern with Power Bank 707708213106

USE: Lantern, battery-powered.

MANUFACTURER: Adventure Ready Brands
ADDRESS: 944 Industrial Park Rd
Littleton, NH 03561 USA

INFORMATION CALLS: USA or Canada: 1-800-258-4696; International: 001-603-444-5464

E-Mail: cs@adventurereadybrands.com

FAX: 1-603-444-6735

EMERGENCY PHONE: Spills:1-800-354-2382 (Veolia)

Medical Information: 1-800-258-4696 (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.

Battery Description:

0140-1310 SOL Floating Lantern with Power Bank

Battery Model: TE-PL293231

Type: Lithium Ion Battery Rated Capacity: 2700 mAh Nominal Voltage: 3.7 V

Watt-hours (Wh) = $2700 \text{ mAh x} (1 \text{ A}/1000 \text{ mA}) \times 3.7 \text{ V} = 9.99 \text{ Wh}$

Equivalent Lithium Content = 2700 mAh x (1 A/1000 mA) x 0.3 gram/Ah = 0.81 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.

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

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.

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.



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SECTION 14: TRANSPORT INFORMATION

SHIPPING INFORMATION: Marine Pollutant: **See Below

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

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

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.



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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).

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).

SECTION 16: OTHER INFORMATION

REVISED SECTIONS OR REASON FOR REVISION:

ORIGINAL ISSUE: JULY 23, 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.



深圳市泰量电子有限公司

材料安全数据表 Material Safety Data Sheet

1.Identification of the product and supplier(产品和厂商信息)	
产品名称 Name of goods	锂离子聚合物电池 Li-polymer Battery
产品型号 Type/Mode	TE-PL293231 3.7V 2700mAh 9.99Wh
制造商 Manufacturer	深圳市泰量电子有限公司 Shenzhen Tenerg Electronic Co.,Ltd.
制造商地址 Manufacturer address	广东省深圳市龙华新区民治大道 58 号恒润大厦 638 室 Room 638,Henrun Building,No.58,Minzhi Road. Longhua District,Shenzhen ,Guangdong,China.
生产厂 Factory	东莞市海量能源科技有限公司 Dongguan Hilion Battery Co.,Ltd.
生产厂地址 Factory address	广东省东莞市常平镇鸿鑫宝国际产业园 E 栋 Building E, hongxinbao international industrial park, cha ngping town, dongguan city, guangdong province.
鉴定依据 Inspection according to	EEC Directive 93/112/EC 联合国《关于危险品货物运输的建议书》 UN"Recommendations on the TRANSPORT OF DANGEROUS GOODS"
紧急联系电话 Eergency telephone call	+86-755 33231651
签发日期/Issue date :2021-01-05	

Approved by: Reviewed by: Tested by:

2.Composition/Information on Ingredient(成分/组成信息)			
危险成分(化学名称) Hazardous Ingredients (Chemical Name)	含量及含量百分比(%) Concetration or concentration ranges(%)	CAS 编号 CAS Number	
钴酸锂/Lithium Cobalt Oxide	37.82%	12190-79-3	
聚偏氟乙烯/Polyvinylidene(PVDF)	1.46%	24937-79-9	
铝/Aluminium(Al)	9.03%	7429-90-5	
石墨/Graphite	16.48%	7782-42-5	
丁苯橡胶/Styrene-Butadiene Rubber(SBR)	0.39%	61789-96-6	
羧甲基纤维/Carboxymethylcellulose	0.31%	9000-11-7	
铜/Copper(Cu)	9.74%	7440-50-8	
镍/Nickel(Ni)	1.08%	7440-02-0	
六氟磷酸锂/Lithium Hexafluorophosphate	18.56%	21324-40-3	
聚乙烯/Polyethylene	3.03%	9002-88-4	
尼龙/Nylon	0.8%	24937-16-4	
聚丙烯/Polypropylene	1.3%	9003-07-0	

3.Hazards Identification(主要危险性鉴定)		
爆炸危险性	该物品不属于爆炸物品	
Explosive risk	This article does not belong to the explosion dangerous goods	
易燃危险性	该物品不属于易燃危险品	
Flammable risk	This article does not belong to the flammable material	
氧化危险性	该物品不属于氧化危险品	
Oxidtion risk	This article does not belong to the oxdation of dangerous goods	
毒害危险性	该物品不属于毒害危险品	
Toxic risk	This article does not belong to the toxic dangerous goods	
放射危险性	该物品不属于放射危险品	
Radioactive risk	This article does not belong to the rediation of dangerous goods	
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of danggerous goods	
其他危险性	该物品为锂离子电池,瓦时率为 9.99 Wh	
Other risk	This article is Li-ion Battery, Watt hour rate 9.99 Wh	

4.First aid measures(急救措施)

Eye

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

Skin

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.

5.Fire-fighing measures(消防措施)

Flash Point:N/A.

Auto-Ignition Temperature: N/A . Extingguishing Media: Water, CO2.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat -exposing battey contents.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

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.

Waste Disposal Method

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

7.Handling and storage(操作处置和储存)

The battey 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 battey, or immerse in liquids.

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse .Storage preferably in cool,dry and ventilated area, which is subjet to little temperature change.Storage at high tenperatures should be avoided.Do not place the battey 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

8.Exposure controls/personal protection(接触控制/个人保护)

Respiratory protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores

Respiratory prorey protection is not necessary under conditions of normal use.

Ventiltion

Not necessary under conditions of normal use.

Other protective Clothing or Equipment

Not necessary under conditions of normal use.

Personal Protection is reconnended for venting battery

Respiratory prtection, protective Gloves, Protective Cloting and safety glass with side shields.

9.Physical and chemical properties(物理和化学特征)

Appearance: Priamatic shape

Odour:If leaking, smells of medical ether.

pH:Not applicable as supplide.

Flash Point:Not applicable unless individual components exposed.
Flammability:Not applicable unless individual components exposed,
Relative density: Not applicable unless individual components exposed,
Solubility(water): Not applicable unless individual components exposed,
Solubility(other): Not applicable unless individual components exposed,

10.Stability and reactivity(稳定性和反应活性)

Stability: Product is stable under conditions described in Swction 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.

Materisls to avoid: Oxidising agents, slkalis, water.

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

Hazardous Polymerization:N/A.

If leaked, forbiden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11.Toxicological information(毒理性资料)

Signs & symptoms: None, unless battery tuptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation:Lung irritant. Skin contact:Skin irritant Eye contact:Eye irritant

Ingestion: Poisoning if swallowed

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

12.Ecological informtion(生态学资料)

Mammalian effects: None known at present.

Eco-toxicity: None known at present.

Bioaccumulation potential: Slowly Bio-degradable.

Environmental fate: None known environmental hazards at present.

13.Disposal consideration(废弃处置)

Product disposal recommendation	Observe local, state and federal laws and regulations.
Uncleaned packaging recommendation	Disposal must be made according to official regulations

14.Transport information(运输信息)

Label for conveyance	Lithium Battery Label
UN Number	UN 3480 or UN 3481
Transport hazard class(es)	9
Packing group	===
Marine pollutant	No
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 62 nd Packing Instructions Section IB~II of 965 or Section II of 966 967 appropriately.
IMDG CODE	International Maritime Dangerous Goods Code IMDG CODE (Amdt.39-18)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

15.Regulation information(法规信息)

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》

《Consumer Product Safety Act》(CPSA)

《Federal Environmental Pollution Control Act》(FEPCA)

《Resource Conservation and Recovery Act》(RCRA)

《European Agreement concerning the International Carriage of Dangerous》

《Regulations concerning the International Carriage of Dangerous》

In according with all Federal, State and local laws.

16.Other information(其他信息)

This information is not effective to all the batteries manufactured by Shenzhen Tenerg Electronic Co.,Ltd. This information comes from reliable sources,but on warranty is made to the completeness and accuracy of information contained Shenzhen Tenerg Electronic Co.,Ltd.doesn't assume responsibility for any damage or loss because of misuse of batteries. User's should grasp the correct use merhod and be responsible for the use of batteries.



UN38.3 测试概要 Test summary of UN38.3

电池或电池组说明 Description of cell or battery:

型号 Model No.: TE-PL293231

名称 Name: 锂聚合物电池 Li-Polymer Battery

类型 Type: Lithium ion battery

额定值 Rating: 3.7V, 2700mAh, 9.99Wh 形状 Description: 近长方体 Almost Cuboid

质量 Mass: Approx. 46.6g

电池、电池组或生产厂商名称及联系信息 Name and contact

information of cell, battery, or product manufacturer:

名称 东莞市海量能源科技有限公司

Name: DongGuan Hilion Battery CO.,LTD.

地址 东莞市塘厦镇科苑城鹿乙路 A16 号 C13

Address: C13 LuYi RodA 16, Ke Yuan City TangXia Town,

DongGuan GuangDong China

电话

Tel No.:

邮箱 xijian.liao@hilion-battery.com

+86-0769-89290896

Email:

网址

Website:

签字人姓名和职务 Name and Title of Signato

秦林伟 Deval Qin / 授权签字

签发日期 Issue Date: 202 1 06年7_{ESTING GRO}V

测试实验室名称及联系信息 Name and contact

information of the test laboratory:

名称

Name: 深圳市信特斯检测科技有限公司

Shenzhen SEM.Test Technology

Co., Ltd.

地址 广东省深圳市宝安区 70 区留仙二路

鸿威工业园厂房 1 栋 101 (A 栋厂房) Address:

一楼

1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian'er Road, Block 70, Bao'an District,

Shenzhen, Guangdong, China

电话

+86-0755-33663308 Tel No.:

邮箱

admin@semtest.com.cn

Email:

网址

www.semtest.com.cn

Website:

唯一的试验报告识别号码 A unique test report

identification number: STR16089151S

测试报告签发日期 Issue date of the test report:

2016-08-26

参考所使用的《测试和标准手册》的修订版及其

修订 Reference to the revised edition of the Manual of Test and Criteria used and to

amendments thereto: Revision 6

试验结果表 List of tests conducted and results:

高度模拟 Altitude Simulation: Pass

热测试 Thermal Test: Pass

振动 Vibration: Pass

冲击 Shock: Pass 外部短路 External short circuit: Pass

Pass

过充电 Overcharge: Pass Pass