# MATERIAL SAFETY DATA SHEET 材料安全数据表

## **Rechargeable Li-Ion Battery**

可充式锂离子电池组

Model: RVBAT850

型号: RVBAT850

| Prepared by | Approved by |
|-------------|-------------|
| 编制          | 深圳)有限引批准    |
| Fan Lijun   | Jason       |

## **Material Safety Data Sheet**

#### 材料安全数据表

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

#### 第1节 - 化学品及企业标识

#### Product Identification 产品标识

Product 产品: Rechargeable Li-Ion Battery 可充式锂离子电池

Model No.型号: RVBAT850

Rated Capacity 额定容量: 2900mAh (43Wh)

Nominal Voltage 标称电压: 14.8V

Revision Date 修订日期: 2024-01-01

Expiry date 有效期: 2024-12-31

#### Manufacturer 生产供应商

Company name 公司名称: ICON ENERGY SYSTEM (SHEN ZHEN) CO., LTD

博科能源系统(深圳)有限公司

Block A, 4/F, jinmeiwei Industrial Park, Guanlan Hi-tech Industrial Park, Shangkeng CommunityGuanlan Street, LonghuaDistrict, Shenzhen City,

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#### **Section 2 - Hazards Identification**

#### 第2节 - 危险识别

Preparation hazards and classification 制备危害和分类 Not dangerous with normal use. Do not dismantle, open or shred the Rechargeable Li-ion Battery. Exposure to the ingredients contained within or their ingredients products could be harmful.

正常使用无危险。 禁止拆解、打开或破坏锂离子电池。 暴露于产品中包含的成分或其成分可能是有害的。

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| Appearance, Color,        | Solid object with no odor, no color.  |
|---------------------------|---|
| and Odor                  | 固体物质,无色,无味  |
| 外观,颜色和气味                  |   |
| Primary Route(s) of       | These chemicals are contained in a sealed enclosure. Risk of exposure occurs only if          |
| Exposure                  | the cell is mechanically, thermally or electrically abused to the point of compromising       |
| 主要泄露途径                    | the enclosure. If this occurs, exposure to the electrolyte solution contained within can      |
|                           | occur by Inhalation, Ingestion, Eye contact and Skin contact.                                 |
|                           | 这些化学品装在密封的容器里,只有当电池被机械、加热或电滥用到危及外壳的   |
|                           | 程度时,才会出现暴露的风险。如果发生这种情况,可通过吸入、摄入、眼睛接   |
|                           | 触和皮肤接触接触其所含的电解质溶液。  |
| Potential Health          | <b>ACUTE (short term):</b> see Section 8 for exposure controls In the event that this battery |
| Effects:                  | has been ruptured, the electrolyte solution contained within the battery would be             |
| 潜在健康危害:                   | corrosive and can cause burns.  |
|                           | <b>Inhalation:</b> Inhalation of materials from a sealed battery is not an expected route of  |
|                           | exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.           |
|                           | <b>Ingestion:</b> Swallowing of materials from a sealed battery is not an expected route of   |
|                           | exposure. Swallowing the contents of an open battery can cause serious chemical burns         |
|                           | of mouth, esophagus, and gastrointestinal tract.  |
|                           | <b>Skin:</b> Contact between the battery and skin will not cause any harm. Skin contact with  |
|                           | contents of an open battery can cause severe irritation or burns to the skin.                 |
|                           | Eye: Contact between the battery and the eye will not cause any harm. Eye contact             |
|                           | with contents of an open battery can cause severe irritation or burns to the eye.             |
|                           | CHRONIC (long term): see Section 11 for additional toxicological data                         |
|                           | 急性(短期):如果电池破裂,电池内部具有腐蚀性的电解液会导致灼伤,关于   |
|                           | 泄漏管控的措施,请参阅第 8 节。   |
|                           | 吸入:正常情况下无法从密闭电池中吸入有害物质。电池破裂产生的蒸汽或雾可<br>  数点引起吸吸送刺激  |
|                           | 能会引起呼吸道刺激。  |
|                           | 摄入:正常情况下无法从密闭电池中摄入有害物质。吞下破损电池内的物质会导   |
|                           |   |
|                           | 及   |
|                           |   |
|                           | 重的刺激或灼伤。  |
|                           | 量的构版或为历。  |
| Medical Conditions        | Not applicable  |
| Aggravated by             | 不适用   |
| Exposure                  |   |
| 医疗状况加剧泄漏                  |   |
| Reported as               | Not applicable  |
| carcinogen                | 不适用   |
| 致癌物质报告                    | 1 ~2/14   |
| 2X/III   / / / X   X   II |   |

## **Section 3 - Composition/Information on Ingredients**

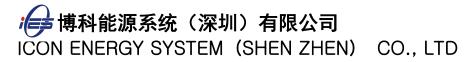
## 第3节 - 成分/成分信息

| 危险成分(化学名称)<br>Hazardous Ingredients<br>(Chemical Name) | 含量及含量百分比(%) Concentration or concentration ranges (%) | CAS 编号<br>CAS Number |
|--|---|----------------------|
| 镍钴锰酸锂<br>Lithium nickel-cobalt manganate               | 49.5  | 182442-95-1          |
| 聚偏氟乙烯 PVDF   | 0.33  | 24937-79-9           |
| 铝 Aluminium  | 7.6   | 7429-90-5            |
| 石墨 Graphite  | 16.3  | 7782-42-5            |
| 丁苯橡胶 SBR   | 0.05  | 9003-55-8            |
| 羧甲基纤维素 Carboxymethyl cellulose                         | 0.28  | 9000-11-7            |
| 铜 Copper   | 6.96  | 7440-50-8            |
| 镍 Nickel   | 0.06  | 7440-02-0            |
| 六氟磷酸锂 Lithium Hexaflourophosphate                      | 10.96   | 21324-40-3           |
| 聚乙烯 Polyethlene  | 4.03  | 9002-88-4            |
| 尼龙 Nylon   | 3.93  | 24937-16-4           |

#### **Section 4 - First-aid Measures**

## 第4节 - 急救措施

| Inhalation   | If contents of an opened battery are inhaled, remove source of contamination or move victim    |
|--------------|--|
| 吸入           | to fresh air. Obtain medical advice.   |
|              | 如果吸入打开电池内部的化学物质,要及时清理污染源或将人转移到空气新鲜处,并  |
|              | 在医生的建议下治疗。   |
| Skin contact | If skin contact with contents of an open battery occurs, as quickly as possible remove         |
| 皮肤接触         | contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently        |
|              | flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. |
|              | Completely decontaminate clothing, shoes and leather goods before reuse or discard.            |
|              | 如果皮肤接触到打开电池内部的化学物质,请尽快清除受污染衣物、鞋子和皮革制品。   |
|              | 立即用流动的温水轻轻冲洗至少30分钟。如果仍然感到刺激或疼痛,请立即就医。并   |
|              | 在重新使用或丢弃之前,彻底清除受污染的衣物、鞋子和皮革制品。   |
|              |  |



| Eye contact | If eye contact with contents of an open battery occurs, immediately flush the contaminated    |
|-------------|---|
| 眼睛接触        | eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids  |
|             | open. Neutral saline solution may be used as soon as it is available. If necessary, continue  |
|             | flushing during transport to emergency care facility. Take care not to rinse contaminated     |
|             | water into the unaffected eye or onto face. Quickly transport victim to an emergency care     |
|             | facility.   |
|             | 如果眼睛接触到打开电池内部的化学物质,请立即用流动的温水轻轻冲洗至少30分   |
|             | 钟,并保持眼睛张开,使用中性盐水溶液更佳。必要时,在送往急救室治疗时继续保   |
|             | 持冲洗。注意不要将受污染的水冲洗到未受伤的眼睛或脸部。需要立即将其送医治疗。  |
| Ingestion   | If ingestion of contents of an open battery occurs, never give anything by mouth if victim is |
| 摄入          | rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth        |
|             | thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL                 |
|             | (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of  |
|             | aspiration. Have victim rinse mouth with water again. Quickly transport victim to an          |
|             | emergency care facility.  |
|             | 如果摄入打开电池内部的化学物质,受害人当即失去意识或产生抽搐,请勿用口过渡   |
|             | 任何东西。用水彻底清洗受害人口腔。不要催吐,让受害人饮下 60~240mL(2~8 oz.)  |
|             | 的水。若受害人自动呕吐,则将其前倾,降低误吸风险。并再次用水清洗受害人口腔,  |
|             | 并立即送医。  |

## **Section 5 - Fire Fighting Measures**

## 第5节 - 消防措施

| Flammable     | In the event that this battery has been ruptured, the electrolyte solution contain within the |
|---------------|---|
| Properties    | battery would be flammable. Like any sealed container, battery cells may rupture when         |
| 易燃性           | exposed to excessive heat; this could result in the release of flammable or corrosive         |
|               | materials.  |
|               | 如果电池破裂,则电池内含有的电解液具有易燃性。与其他密闭容器一样,电池在  |
|               | 过热条件下可能会发生爆炸,这可能导致易燃性或腐蚀性物质释放。  |
| Suitable      | Use extinguishing media suitable for the materials that are burning.                          |
| extinguishing | 使用适合扑灭燃烧材料的灭火器。   |
| Media         |   |
| 合适的灭火器        |   |
| Unsuitable    | Not available   |
| extinguishing | 无法使用。   |
| Media         |   |
| 不当的灭火器        |   |
| Explosion     | Sensitivity to Mechanical Impact: This may result in rupture in extreme cases                 |
| Data          | Sensitivity to Static Discharge: Not Applicable   |
| 爆炸数据          | 机械冲击的灵敏性: 在极端情况下可能导致破裂  |
|               | 静放电的灵敏性: 不适用  |
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| G .C            |   |
|-----------------|---|
| Specific        | Fires involving Rechargeable Li-ion Battery are controlled with water. When water is      |
| Hazards arising | used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an     |
| from the        | explosive mixture. In this situation, smothering agents are recommended to extinguish the |
| chemical        | fire.   |
| 化学品的具体          | 可充电锂离子电池的火灾可以用水控制。然而,当水被使用时,可能会产生氢气。在   |
| 危害              | 密闭空间中,氢气能形成爆炸性混合物。 在这种情况下,建议使用窒息剂来灭火。   |
| Protective      | As for any fire, evacuate the area and fight the fire from a safe distance. Wear a        |
| Equipment and   | pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire  |
| precautions for | from a protected location or a safe distance. Use NIOSH/MSHA approved full-face           |
| firefighters    | self-contained breathing apparatus (SCBA) with full protective gear.                      |
| 防护设施和消          | 如果发生火灾,疏散该区域,并从安全距离灭火。 穿戴加压器、自给式呼吸器和全   |
| 防注意事项           | 套防护装备。 从一个受保护的地方或安全距离进行灭火。 使用 NIOSH/MSHA 批准   |
|                 | 的全面自给式呼吸器(SCBA),并配备全套防护装备。  |
| NFPA            | Health: 0 Flammability: 0 Instability: 0  |
| 美国消防协会          | 健康: 0 易燃性: 0 不稳定性: 0  |

#### **Section 6 - Accidental Release Measures**

## 第6节 - 泄露应急处理

| Personal Precautions, protective equipment, and emergency procedures 个人预防、防护设备和急救措施 | 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. 在清理工作完成前,限制人员进入该区域。 不要触摸溢出的材料。 如第 8 节所示,穿戴足够的个人防护装备。   |
|---|--|
| Environmental Precautions<br>环境预防   | Prevent material from contaminating soil and from entering sewers or waterways. 防止材料污染土壤,下水道或水道。   |
| Methods and materials for Containment 遏制方法和材料                                       | Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 在能确保安全的情况下,阻止继续泄漏。用干沙或泥土掩埋泄漏出的液体。立即清理泄露物质。   |
| Methods and materials for cleaning up 清理方法和材料                                       | 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(干沙或泥土)吸收泄漏出的物质。将用完的吸收剂放入可接受的废物容器中。 收集所有受污染的吸收剂,并按第13节中的说明进行处理。 |

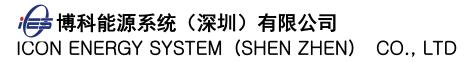
| 用洗涤剂和清水擦洗该区域;<br>便妥善处理。 | 收集所有受污染的洗涤水, | 以 |
|-------------------------|--------------|---|
|                         |              |   |

## **Section 7 - Handling and Storage**

## 第7节 - 操作处置和储存

| Handling  | Don't handle Rechargeable Li-ion Battery with metalwork. Do         |
|---|---|
| <del>                                    </del> | not open, dissemble, crush or burn battery.                         |
| \$1117 <u>2</u>                                 | Ensure good ventilation/ exhaustion at the workplace.               |
|   | Prevent formation of dust. Information about protection against     |
|   | explosions and fires: Keep ignition sources away- Do not smoke.     |
|   | 禁止使用金属制品处理锂离子电池。禁止打开、拆卸、碾压  |
|   | 或烧毁电池。  |
|   | 确保工作场所良好的通风。  |
|   | 防止灰尘堆积。注意防止爆炸和火灾的提示:远离火源-禁止   |
|   | 吸烟。   |
| Storage   | If the Rechargeable Li-ion Battery is subject to storage for such a |
| 储存  | long term as more than 3 months, it is recommended to recharge      |
|   | the Rechargeable Li-ion Battery periodically. 3 months:             |
|   | -10°C~+40°C, 45 to 85%RH And recommended at 0°C~+35°C               |
|   | for long period storage.  |
|   | The capacity recovery rate in the delivery state (50% capacity of   |
|   | fully charged) after storage is assumed to be 80% or more.          |
|   | Do not store Rechargeable Li-ion Battery haphazardly in a box or    |
|   | drawer where they may short-circuit each other or be                |
|   | short-circuited by other metal objects.                             |
|   | Keep out of reach of children.                                      |
|   | Do not expose Rechargeable Li-ion Battery to heat or fire. Avoid    |
|   | storage in direct sunlight.   |
|   | Do not store together with oxidizing and acidic materials.          |
|   | 如果锂离子电池需要长期存放3个月以上,建议定期对其进  |
|   | 行充电。3 个月: −10° C~+40° C、45~85%RH,建议在 0° C~+                         |
|   | 35°C下长期保存。  |
|   | 电池储存后,在交付状态下(50%满充容量)的容量恢复率假  |
|   | 设在80%或以上。   |
|   | 请勿将锂离子电池随意存放在箱内或抽屉内,以免电池相互  |

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| 短路或被其他金属物体短路。    |           |
|------------------|-----------|
| 请放在儿童接触不到的地方。    |           |
| 请勿将锂离子电池置于高温或火中。 | 避免存放在阳光直射 |
| 的地方。             |           |
| 不要与氧化性和酸性物质一起存放。 |           |
|                  |           |
|                  |           |

## **Section 8 - Exposure Controls and Personal Protection**

## 第8节 - 接触控制和个人防护

| 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. 使用局部排气通风或其他工程控制来管控灰尘、烟雾和蒸汽的来源。远离热源和明火,存放在阴凉干燥处。  Respiratory Protection: Not necessary under normal conditions.  Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.  Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery. |
|---|
| heat and open flame. Store in a cool, dry place. 使用局部排气通风或其他工程控制来管控灰尘、烟雾和蒸汽的来源。远离热源和明火,存放在阴凉干燥处。 Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery. Hand protection: Wear neoprene or natural rubber material   |
| 使用局部排气通风或其他工程控制来管控灰尘、烟雾和蒸汽的来源。远离热源和明火,存放在阴凉干燥处。 Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery. Hand protection: Wear neoprene or natural rubber material  |
| 的来源。远离热源和明火,存放在阴凉干燥处。 Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery. Hand protection: Wear neoprene or natural rubber material  |
| Respiratory Protection: Not necessary under normal conditions.  Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.  Hand protection: Wear neoprene or natural rubber material  |
| conditions.  Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.  Hand protection: Wear neoprene or natural rubber material   |
| Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.  Hand protection: Wear neoprene or natural rubber material  |
| conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.  Hand protection: Wear neoprene or natural rubber material   |
| -   |
| 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.  |
| 呼吸系统防护: 正常情况下不需要  |
| 皮肤和身体防护:在正常情况下不需要,如果处理打开或泄  |
| 露的电池,请戴上氯丁橡胶或丁腈橡胶手套。  |
| 手部防护: 如果处理打开或泄露的电池,请戴上氯丁橡胶或   |
| 丁腈橡胶手套。   |
| 眼部防护:在正常情况下不需要,如果处理打开或泄露的电池,请戴上安全镜。   |
| Have a safety shower and eye wash fountain readily available in   |
| the immediate work area.  |
| 您可以在附近的工作区域随时使用安全淋浴和洗眼器。  |
| Do not eat, drink, or smoke in work area. Maintain good   |
| housekeeping.   |
| 禁止在工作区域进食、饮水或吸烟。  |
| 保持良好的卫生管理。  |
| S I   |

## **Section 9 - Physical and Chemical Properties**

#### 第9节 - 物理和化学特性

| Change in condition                                     | 条件变化:             |                    |
|---|-------------------|--------------------|
| pH, with indication of                                  |                   |                    |
| * '   | the concentration |                    |
| PH 值:表示浓度   | ı                 | Not applicable     |
|   |                   | 不适用                |
| Melting point/freezing point 熔点/凝固点                     |                   | Not available.不适用  |
| Boiling Point, initial boiling point and Boiling range  |                   | Not available.     |
| 沸点、初沸点和沸腾   | 范围:               | 不适用                |
| Flash Point 闪点  |                   | Not available. 不适用 |
| Upper/lower flammability or explosive limits 可燃性或爆炸上/下限 |                   | Not available. 不适用 |
| Vapor Pressure 蒸汽压力:                                    |                   | Not applicable 不适用 |
| Vapor Density: (Air = 1) 蒸汽密度: (空气=1)                   |                   | Not applicable 不适用 |
| Density/relative desity 密度/相对密度                         |                   | Not available. 不适用 |
| Solubility in Water: 水中的溶解度                             |                   | Insoluble 不溶       |
| n-octanol/water partition coefficient                   |                   | Not available.     |
| 正辛醇/水分配系数   |                   | 不适用                |
| Auto-ignition temperature 自燃温度                          |                   | 130℃               |
| Decomposition temperature 分解温度                          |                   | Not available. 不适用 |
| Odout threshold 气味极限                                    |                   | Not available. 不适用 |
| Evaporation rate 蒸发率                                    |                   | Not available. 不适用 |
| Flammability (soil, gas) 易燃性(土壤、气体)                     |                   | Not available. 不适用 |
| Viscosity 粘性  |                   | Not applicable 不适用 |

#### Section 10 - Stability and Reactivity

## 第10节 - 稳定性和反应性

| Stability 稳定性                                       | The product is stable under normal conditions.      |  |  |
|---|---|--|--|
|   | 产品在正常条件下稳定。   |  |  |
| Conditions to Avoid (e.g. static discharge, shockor | Do not subject Rechargeable Li-ion Battery to       |  |  |
| vibration)  | mechanical shock.                                   |  |  |
| 避免情况(如:静电放电,冲击振动)                                   | Vibration encoutered during transportation does not |  |  |
|   | cause leakage, fire or explosion.                   |  |  |
|   | Do not disassemble, crush, short or install with    |  |  |
|   | incorrect polarity. Avoid mechanical or electrical  |  |  |
|   | abuse.  |  |  |
|   | 禁止让锂离子电池受到机械冲击。                                     |  |  |
|   | 运输过程中受到的振动不会导致漏液、起火或爆                               |  |  |
|   | 炸。  |  |  |
|   | 禁止拆解、挤压,将正负极短路或反装。避免机械                              |  |  |
|   | 或电气滥用。  |  |  |
| Incompatible Materials 不相容材料                        | Not Available 不适用                                   |  |  |
| Hazardous Decomposition Products                    | This material may release toxic fumes if burned or  |  |  |
| 危险的分解产物   | exposed to fire.                                    |  |  |
|   | 该材料在燃烧或起火时会释放有害气体。                                  |  |  |
| Possibility of Hazardous Reaction                   | Not Available 不适用                                   |  |  |
| 有害反应的可能性  |   |  |  |

## **Section 11 - Toxicological Information**

## 第11节 - 毒理学资料

| Irritation 刺激性                           | 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.<br>只有当电芯受到机械、加热或电滥用损害外壳时,<br>才会对人体有刺激风险。如果发生这种情况,可能<br>会对皮肤、眼睛和呼吸道产生刺激。                      |  |  |
| Sensitization 致敏性                        | Not Available 不适用   |  |  |
| Neurological Effects 神经系统的影响             | Not Available 不适用   |  |  |
| Teratoaenicity 致畸性                       | Not Available 不适用   |  |  |
| Reproductive Toxicity 生殖毒性               | Not Available 不适用   |  |  |
| Mutagenicity (Genetic Effects) 诱变性(遗传效应) | Not Available 不适用   |  |  |

| Toxicologically Synergistic Materials 毒理学协同材 | Not Available 不适用 |
|--|-------------------|
| 料  |                   |

#### **Section 12 - Ecological Information**

#### 第12节-生态学资料

| General note:                                 | Water hazard class 1(Self-assessment): slightly  |  |  |
|---|--|--|--|
| 一般注意事项:                                       | hazardous for water.   |  |  |
|   | Do not allow undiluted product or large quantities of it   |  |  |
|   | to reach ground water, water course or sewage system. 水危害级别 1(自我评估):对水有轻微污染禁止将未稀释或大量的产品倒入地下水、水源或污水处理系统中。 |  |  |
| Anticipated behavior of a chemical product in | Not Available 不适用  |  |  |
| environment/possible environmental            |  |  |  |
| impace/ecotoxicity 化学品在环境中的预期行为/可             |  |  |  |
| 能的环境影响/生态毒性                                   |  |  |  |
| Mobility in soil 土壤中的移动性                      | Not Available 不适用  |  |  |
| Persistence and Degradability 持久性和降解性         | Not Available 不适用  |  |  |
| Bioaccumulation potential 富集可能性               | Not Available 不适用  |  |  |
| Other Adverse Effects 其他不良影响                  | Not Available 不适用  |  |  |

#### **Section 13 - Disposal Considerations**

#### 第13节 - 废弃处置注意事项

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations. 产品废弃处理建议:遵守当地,州和联邦的法律法规。

包装废弃处理建议:请注意丢弃的电池可能会引起火灾,请将电池两端用胶带隔离。禁止拆卸电池。将电池容器完全放电(无残液,无剩余粉末,避免刮擦)。容器可以回收或重复使用。遵守当地,州和联邦的法律

法规。

#### **Section 14 - Transport Information**

#### 第14节 - 运输信息

This report applies to by sea, by air and by land;

本报告适用于海运、空运、陆运;

The Rechargeable Li-ion Battery tested according to the requirements of the 6th revised edition of the UN manual of tests and Criteria, Part III, subsection 38.3;

根据第6版联合国测试和标准手册第Ⅲ部分第38.3小节的要求进行锂离子电池测试;

Rechargeable Li-ion Battery was 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;

保护锂离子电池,防止短路。包括防止在同一包装内与导电材料相接触,从而造成短路;

The Rechargeable Li-ion Battery (RVBAT850) according to Section II/IA/IB of PACKING INSTRUCTION 965/966 /967 of the Dangerous Goods Regulations 65<sup>th</sup> Edition: International Air Transport Association (IATA) may be transported and applicable U.S.DOT regulations for the safe transport of Rechargeable Li-ion Battery.

根据危险品法规第 65 版第 965/ 966 /967 包装说明第 II/IA/IB 节可充电锂离子电池(RVBAT850): 国际航空运输协会(IATA)可运输和适用的美国交通部关于可充电锂离子电池安全运输的规定。

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

关于运输、测试、标签和包装的更多信息,请访问http://www.labelmaster.com/

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

包装应尽量避免在运输、搬运和堆放的过程受到机械损伤。包装应选择能够防止意外导电、腐蚀和浸湿的设计和材料。

The package must be handled with care and that a flammability hazard exists if the package is damaged; Each package must be labeled with a Li-ion Battery handling label or in addition to the Class 9 hazard label. With regard to transport, the following regulations are cited and considered:

包装必须小心处理,如果包装破损,则存在易燃危险;每个包装必须贴上锂离子电池处理标签,或除9类危险品标签外的标签。关于锂离子电池的运输,可以引用和论证以下规定:

- The International Civil Aviation Organization (ICAO) Technical Instructions (2024-2025 edition).
- 国际民用航空组织(ICAO)技术说明(2024-2025版本)。
- The International Air transport Association (IATA) Dangerous Goods Regulations (65<sup>th</sup> edition). UN number of lithium battery: UN3480 or UN3481;
- 国际航空运输协会(IATA)危险货物规定(第65版)。锂电池UN号: UN3480 或 UN3481;

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

UN特定的运输名称/描述(技术名称): 锂离子电池或安装在设备中或与设备包装在一起的锂离子电池 UN Classification (Transport hazard class): Non dangerous;

UN分类(运输危险类): 非危险品;

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Marine pollutant (Y/N): N;

海洋污染物(是/否): 否;

- The International Maritime Dangerous Goods (IMDG) Code (Amdt. 41-22).
- 国际海运危险货物(IMDG)准则(Amdt. 41-22)

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit. UN number of lithium battery: UN3480 or UN3481;

锂离子电池海上运输, 需要包装牢固, 防止电池短路。锂电池UN号: UN3480 或 UN3481;

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

UN特定的运输名称/描述(技术名称): 锂离子电池或安装在设备中或与设备包装在一起的锂离子电池;

UN Classification (Transport hazard class): Non dangerous; Marine pollutant (Y/N): N;

UN分类(运输危险类): 非危险; 海洋污染物(是/否): 否;

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

特别规定: 国际海运危险货物(IMDG)准则188、230、310、348、957;

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA.
- 美国危险品法规(HMR)根据RSPA发布的最终法规
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)
- 美国交通部危险品安办公室(DOT)研究所和特殊项目管理局(RSPA)

#### **Section 15 - Regulatory Information**

第15节 - 法规信息

| OSITA liazard communication standard (29 CFR 1910.1200) |    |                       |
|---|----|-----------------------|
| OSHA 危害通信标准(29 CFR 1910.1200)                           |    |                       |
| Hazardous危险   | 17 | Non-hazardous无危险      |
| Hazardous it ibw  | V  | NON-HAZAIGOUS A JELEN |

#### **Section 16 - Other Information**

#### 第16节-其他信息

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