

Technical Data Sheet

Ryobi Lithium-Ion Battery Pack

Battery Voltage: 4V

Battery Capacity: 2Ah / 7.4Wh

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lithium-Ion Battery — Rechargeable Model Number: FVB01

Issue Date: December 2021

TTI Consumer Power Tools, Inc.

Company Phone Number: 1-800-525-2579

P.O. Box 1288
Anderson, SC 29622

Emergency Contact Number:

Chemtrec (United States only): 1-800-424-9300

(International): +1-703-741-5970

SECTION 2: HAZARDS IDENTIFICATION

Refer to battery cell SDS for more information.

No exposure to hazards during routine handling of product.

A WARNING:

- To reduce the risk of injury, user must read operator's manual.
- Risk of fire and burns.
- Do not open, crush, heat above 50°C, incinerate, or short terminals.
- · Follow manufacturer's instructions.
- Use only with charger listed in operator's manual.
- Remove battery from tool when storing, changing attachments, or making adjustments.
- To reduce the risk of explosion and possible injury, do not place battery near fire or heat.
- Do not crush, drop, or damage battery pack.
- Do not use a battery pack that has been dropped or received a sharp blow. A damaged battery is subject to explosion.
 Properly dispose of a dropped or damaged battery immediately.
- Under extreme usage or temperature conditions, battery leakage may occur. If fluid comes in contact with your skin, wash immediately with soap and water. If fluid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
- Battery cells and battery pack assembly will burn if incinerated.

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

Refer to battery cell SDS for more information.

SECTION 4: FIRST AID MEASURES

Refer to battery cell SDS for more information.

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- Battery cells and battery pack assembly will burn if incinerated.
- No exposure during routine handling of product. Risk of exposure occurs only if the battery is mechanically or electrically abused.
- No effect under routine handling and use to eyes, skin, or if inhaled. Ingestion is not likely, given the physical size and state of the cell. If swallowed, seek medical attention immediately.
- If exposure to internal materials within cell due to damaged outer casing, the following actions are recommended:

EYE CONTACT:

Flush with water for 10 minutes without rubbing and immediately seek medical attention.

SKIN CONTACT:

Wash area immediately with soap and water. If irritation continues, seek medical attention.

INHALATION:

Leave area immediately, move to fresh air, and seek medical attention.

INGESTION:

If swallowed, contact POISON CONTROL CENTER immediately.

SECTION 5: FIRE FIGHTING MEASURES

Refer to battery cell SDS for more information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

- · Use standard industrial clothing in normal use.
- If handling large containers of cells, wear steel-toed footwear.

ENVIRONMENTAL PRECAUTIONS:

No special precautions necessary.

METHODS FOR CONTAINMENT:

- Transport container outdoors.
- Always consult and obey all international, federal, and local environmental laws.

METHODS FOR CLEANUP:

No data available

OTHER INFORMATION:

No data available

SECTION 7: HANDLING AND STORAGE

HANDLING:

- · Use only approved charging equipment.
- Do not disassemble battery or battery pack.
- Do not puncture, crush, or dispose of in fire.

STORAGE:

To obtain the longest possible battery life, we suggest the following:

• Remove the battery pack from the charger once it is fully charged and ready for use.

For battery pack storage longer than 30 days:

- Store the battery pack where the temperature is below 80°f and away from moisture.
- Store battery packs in a 30%-50% charged condition.
- Every six months of storage, charge the pack as normal.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to battery cell SDS for more information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Battery pack consists of battery cells assembled in resin enclosure and is a solid odorless product that will burn if incinerated.

SECTION 10: STABILITY AND REACTIVITY

Refer to battery cell SDS for more information.

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- Follow manufacturer's instructions.
- Use only with charger listed in operator's manual.
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- Do not crush, drop, or damage battery pack.
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 then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
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SECTION 11: TOXICOLOGY INFORMATION

Refer to battery cell SDS for more information.

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- Follow manufacturer's instructions.
- Use only with charger listed in operator's manual.
- Remove battery from tool when storing, changing attachments, or making adjustments.
- To reduce the risk of explosion and possible injury, do not place battery near fire or heat.
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 wash immediately with soap and water. If fluid gets into your eyes, flush them with clean water for at least 10 minutes,
 then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
- Battery cells and battery pack assembly will burn if incinerated.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

None in routine handling of product.

TOXICITY:

No data available

PERSISTENCE AND DEGRADABILITY (BIOPERSISTENCY & BIODEGRADABILITY):

None in routine handling of product.

POTENTIAL OF BIOACCUMULATION:

None in routine handling of product.

MOBILITY IN SOIL:

None in routine handling of product.

OTHER ADVERSE EFFECTS:

No data available

DISPOSAL:

Follow guidelines in Section 13.

SECTION 13: DISPOSAL CONSIDERATIONS

This product contains Lithium-ion batteries. Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

DISPOSAL:

- Dispose in accordance with appropriate regulations.
- Always consult and obey all international, federal, provincial/state, and local hazardous waste disposal laws. Some
 jurisdictions require recycling of this spent product. Battery recycling is encouraged.
- Lithium-ion batteries are safe for disposal in the normal municipal waste stream since they are not defined by the federal government as hazardous waste. However, Lithium-ion batteries are recyclable.
- To preserve natural resources, please recycle or dispose of batteries properly.

WARNING:

- Upon removal, cover the battery pack's terminals with heavy-duty adhesive tape.
- Do not attempt to destroy or disassemble battery pack or remove any of its components.
- Batteries must be recycled or disposed of properly.
- Also, never touch both terminals with metal objects and/or body parts as short circuit may result.
- Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.
- This product does not contain mercury, cadmium or Lithium (metal).
- DO NOT INCINERATE battery cells.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT Hazardous Material Regulations (Re: Ground Transport)

Lithium-ion batteries under 101 watt hours or Lithium-ion batteries packed with equipment under 101 watt hours when packaged correctly are not subject to any regulations when traveling by ground in the continental U.S.

Canada Transport Dangerous Goods (Re: Ground Transport)

Lithium-ion batteries under 101 watt hours or Lithium-ion batteries packed with equipment under 101 watt hours when packaged correctly are not subject to any regulation when traveling by ground in Canada.

International Dangerous Goods Regulations (Re: Air, Sea, Ground Transport)

Lithium-ion batteries under 101 watt hours or Lithium-ion batteries under 101 watt hours packed with equipment are not subject to any regulation when packaged correctly when shipped by sea.

No more than (16) Lithium-ion batteries under 101 watt hours can be shipped in a box by air, and no more than 2 shipments can be sent to a consignee in a day. The package must contain a Red Bordered Lithium-ion label (ICAO) containing an emergency contact telephone number and a Cargo Air Craft only label.

For accessory batteries under 101 watt hours when shipped by air, Dangerous Goods declaration must be presented to the air forwarder and the shipment identified as 1B on the declaration. The following labels must be attached: DG9 diamond label, Cargo Aircraft Only label, UN3480 Lithium-ion batteries label (all 3 of those labels must be on the same side of the carton), and the Red Bordered Lithium-ion label (ICAO), and UN3480 / 3481 label with the kg of lithium label . (all 4 of those labels must be on the same side of the carton).

SECTION 15: REGULATORY INFORMATION

Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Subsection 38.3.

CALIFORNIA PROPOSITION 65

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

SECTION 16: OTHER INFORMATION

The information contained within this document is provided for your information only. In case of any discrepancy, the information provided in the battery cell Safety Data Sheet takes precedence over the information provided in the battery pack Technical Data Sheet.

Prepared by: Techtronic Industries Power Equipment

The batteries referenced herein are considered exempt articles and are not subject to the OSHA Hazard Communication Standard; therefore an SDS is not required. This sheet is being provided as a service to our customers.

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. TECHTRONIC INDUSTRIES POWER EQUIPMENT makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereto.

MSDS REPORT MSDS 报告

Client Name

委托单位 江苏海四达电源股份有限公司

Address

地址

Product Name Lithium ion Battery

产品名称 : 锂离子蓄电池

Date Jan. 08, 2021

日期 2021年01月08日

MATERIAL SAFETY DATA SHEET

材料安全数据清单

1. Chemical Product and Company Identification产品及申请公司信息

Sample name: Lithium ion Battery

样品名称 锂离子蓄电池

Sample model:

样品型号

Rating: Nominal Voltage 标称电压: 3.7V

规格 Rated Capacity 额定容量: 2000mAh, 7.4Wh

Weight 重量: 44g

Manufacturer:

制造商

Address: 制造商地址

Factory:

工厂

Address:

工厂地址

Telephone no:

联系电话

Fax:

传真

E-mail: 邮箱

Date of received: Jan. 06, 2021

接收日期 2021年01月06日

Date of report: Jan. 08, 2021

报告日期 2021年01月08日

2. Composition/Information on Ingredients原料成分信息

材料及组分 Material or ingredient	化学式 Chemical Formula	CAS 号 CAS No.	重量含量 Wt %
镍钴锰酸锂 Cobalt lithium manganese nickel oxide	LiNi _{0.5} Co. ₂ Mn _{0.3} O ₂	113066-89-0	32%
铁 Iron	Fe	7439-89-6	17%
石墨 Graphite	С	7782-42-5	16%
铜 Copper	Cu	7440-50-8	12%
碳酸二甲酯 Dimethyl carbonate	C ₃ H ₆ O ₃	616-38-6	6%
铝 Aluminum	Al	7429-90-5	6%
聚乙烯 Polyethylene	C ₂ H ₄	9002-88-4	3%
六氟磷酸锂 Phosphate(1-), hexafluoro-, lithium	LiPF ₆	21324-40-3	3%
碳酸乙烯酯 Ethylene carbonate	C ₃ H ₄ O ₃	96-49-1	3%
碳酸甲乙酯 Ethylmethyl carbonate	C ₄ H ₈ O ₃	623-53-0	1%
镍 Nickel	Ni	7440-02-0	1%

3. Hazards Summarizing 危险概述

Danger sort 危险类别: N/A Routes of entry进入途径:

1. Eyes and Skin – When leaking, the electrolyte solution contained in the battery irritates to ocular tissues and the skin.

眼睛和皮肤 - 当电池泄漏时,电池内部的电解液会刺激眼膜和皮肤,甚至有疼痛感。

- 2. Inhalation—Respiratory (and eye) irritation may occur if fumes are released due heat or an abundance of leaking batteries.
 - 吸入 一 电池大量泄漏产生热量导致冒烟,吸入会刺激呼吸系统。
- 3. Ingestion The ingestion of the battery can be harmful. Content of open battery can cause serious chemical burns of mouth, esophagus and gastrointestinal tract. 吞食 吞食电池对身体有很大伤害。电池里含的物质会引起嘴、食道和胃肠道 化学灼伤。

Health harm 健康损害:

Exposure to leaking electrolyte from ruptured or leaking battery can cause 电池破裂导致电解液外漏会导致以下伤害:

- 1. Inhalation—Burns and irritation of the respiratory system, coughing, wheezing, and shortness of breath.
 - 吸入一灼伤或刺激呼吸系统,可能会产生咳嗽、喘息和呼吸浅短等现象。
- 2. Eyes—Redness, tearing, burns. The electrolyte is corrosive to all ocular tissues. 眼睛一红肿,疼痛,灼伤。电解液会腐蚀视网膜。
- 3. Skin—The electrolyte is corrosive and causes skin irritation and burns. 皮肤—电解液有腐蚀性,会刺激皮肤甚至灼伤皮肤。
- 4. Ingestion—The electrolyte solution causes tissue damage to throat and gastrointestinal track.

吞食一电解液会导致咽喉组织损伤和胃肠道损伤。

Environment harm 环境危害: Not necessary under conditions of normal use.正常使用条件下没有危害。

Explosion danger 爆炸危险: The battery may be explosive at high temperature (above 60°C) or exposing to the fire.电池在高温条件下(大于 60°C)或者置于火中会导致爆炸。

4. First Aid Measures 急救措施

Skin contact: Not anticipated. If the battery is leaking and the contained material contacts the skin, flush with copious amounts of clear water for at least 15 minutes. **Eye contact:** Not anticipated. If the battery is leaking and the contained material contacts eyes, flush with copious amounts of clear water for at least 15 minutes. Get medical attention at once.

Inhalation: Not anticipated. If the battery is leaking, remove to fresh air. If irritation persists, consult a physician.

Ingestion: Not anticipated. If the battery is leaking and the contained material is ingested, rinse mouth and surrounding area with clear water at once. Consult a physician immediately for treatment.

皮肤接触:没有事先预料的,如果电池漏液接触到皮肤上,立即用大量的清水冲洗至少 **15** 分钟。

眼睛接触:没有事先预料的,如果电池漏液接触到眼睛上,立即用大量的清水冲洗至少15

吸入:没有事先预料的电池泄漏,转移到空气新鲜的地方,如果刺激性还存在,请咨询医生。

吞食: 没有事先预料的,如果电池漏液并且吞食了电池原料,立即用清水冲洗嘴部及周围

部位,并就医治疗。

5. Fire Fighting Measures 消防措施

Unusual Fire and Explosion Hazards: Battery may explode or leak potentially hazardous vapors subject to: exposed to excessive heat (above the maximum rated temperature as specified by the manufacturer) or fire, over-charged, short circuit, punctured and crushed.

Hazardous Combustion Products: Fire, excessive heat, or over voltage conditions may produce hazardous decomposition products. Damaged batteries can result in rapid heating and the release of flammable vapors.

Extinguishing Media: Dry chemical type extinguishers are the most effective means to extinguish a battery fire. A CO₂ extinguisher will also work effectively.

Fire Fighting Procedures: Use a positive pressure self-contained breathing apparatus if batteries are involved in a fire. Full protective clothing is necessary. During water application, caution is advised as burning pieces of flammable particles may be ejected from the fire.

异常着火和爆炸危险: 电池爆炸或漏液可能是由以下原因导致: 暴露于高温环境 (超过制造商规定的最大额定温度) 或者火中,电池过充电,短路,刺穿和挤压。

产品烧毁危害:着火,过热或者过压条件可能会导致产品分解。损坏的电池会导致快速升温和释放可燃性气体。

灭火仪器:对于电池着火灭火最有效的是干燥的化学型灭火器,二氧化碳灭火器也可。 消防程序:如果火灾中有电池,要使用正压呼吸装置,全防护服是必不可缺的,在使用水 设备时要小心谨慎,因为燃烧的一些可燃性颗粒会从火中喷射出。

6. Accidental Release Measures 偶然的释放措施

The material contained within the battery would only be released under abusive conditions. In the event of battery rupture and leakage, collect all the released materials that are not hot or burning in an appropriate waste disposal container while wearing proper protective clothing and ventilate the area. Placed in approved container and disposed according to the local regulations.

电池内部的原料只会在恶劣条件下释放。万一电池破裂和泄漏,收集所有不热和燃烧后的残渣置于废料处理箱,要穿上防护服和在通风的地方进行。放置在被批准的容器并按照规程处理废料。

7. Handling and Storage 操作和贮存

Handling 操作:

- 1. Batteries are designed to be recharged. However, improperly charging a battery may cause the battery to flame. When charging the battery, use dedicated chargers and follow the specified conditions.
 - 电池被设计为可充电的,然而不正确的充电方式可能会导致电池着火。当给电池充电时,要使用专用的充电器并按照指定的充电条件进行。
- 2. Never disassemble or modify a battery.不拆解电池。
- 3. Do not immerse, throw, and wet a battery in water.不浸没、投掷和用水弄湿电池。
- 4. Should a battery unintentionally be crushed, thus releasing its contents, rubber gloves must be used to handle all battery components. Avoid the inhalation of any vapors that may be emitted.如果电池被无意挤压而导致内部物质释放,必须带上橡胶手套处理所有的电池成分,避免吸入释放的任何气体。
- 5. Short circuit causes heating. In addition, short circuit reduces the life of the battery and can lead to ignition of surrounding materials. Physical contact with to short-circuited battery can cause skin burn.短路会引起电池过热。此外,短路会使电池寿命大大减少,甚至会导致周围材料着火。身体接触短路的电池会导致皮肤灼伤。
- 6. Avoid reversing the battery polarity, which can cause the battery to be damaged or flame.避免颠倒电池极性,可能会引起电池损坏或者燃烧。
- 7. In the event of skin or eye exposure to the electrolyte, refer to Section 4, First Aid Measures.如果皮肤或者眼睛接触到电解液,参考第四项并立即采取急救措施。

Storage 贮存:

- 1. Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks. Do not place batteries near heating equipment, nor expose to direct sunlight for long periods.电池应该和其他材料分开并且贮存在通风且不易燃烧的地方。自动灭火装置应与墙和电池组保持足够的间隙。不要把电池靠近加热装置,或者直接长时间的暴露于阳光直射的区域。
- 2. Do not store batteries above 35℃ or below –20℃. Store batteries in a cool (about 20±5℃) in a long time, dry and ventilated area that is subject to little temperature change. Elevated temperatures can result in reduced battery cycle life. Battery exposure to temperatures in excess of 60℃ will result in the battery venting flammable liquid and gases.不要在35℃以上和-20℃以下的环境贮存电池。电池应该贮存在干燥的、通风良好的阴凉区域(大约20±5℃)。升高温度会导致电池循环寿命减少。电池暴露于60℃以上的温度可能会导致电池泄漏可燃性液体和气体。

3. Keep batteries in original package until use and do not jumble them.保持电池最原始的包装直到使用时,不要把电池弄混乱。

8. Exposure Controls/Personal Protection 暴露控制/自我防护

Engineering Controls: Keep away from heat and open flame.

Ventilation: Not necessary under conditions of normal use. In case of abuse, use adequate mechanical ventilation (local exhaust) for the battery that vent gas or fumes.

Respiratory Protection: Not necessary under conditions of normal use. If battery is burning, leave the area immediately. During fire fighting fireman should use self-contained breathing, full-face respiratory equipment. Fires may be fought but only from safe fire fighting distance, evacuate all persons from the area of fire immediately. **Eye Protection:** Not necessary under conditions of normal use. Use safety glasses with side shields if handling a leaking or ruptured battery.

Body Protection: Not necessary under conditions of normal use. Use rubber apron and protective working in case of handling a leaking of ruptured battery.

Protective Gloves: Not necessary under conditions of normal use. Use chemical resistant rubber gloves if handling a leaking or ruptured battery.

Others: Use good chemical hygiene practice. Wash hands thoroughly after cleaning-up a battery spill caused by leaking battery. No eating, drinking, or smoking in battery storage area.

工程控制:远离高温和明火。

通风设备: 正常使用条件下是不必要的。为了防止不合理的滥用,要使用合适的机械通风设备排出电池产生的气体和黑烟。

呼吸防护: 正常使用条件下是不必要的。如果电池着火,立即远离着火区域。在灭火期间要使用自给自足的全脸防护的呼吸装置。要保持安全的灭火距离并立即疏散着火区域的所有人员。

眼睛防护: 正常使用条件下是不必要的。处理泄漏或者破裂的电池时要戴上有边罩的防护眼镜。

身体防护:正常使用条件下是不必要的。处理泄漏或者破裂的电池时要穿上有橡胶围裙或者安全工作服。

防护手套: 正常使用条件下是不必要的。处理泄漏或者破裂的电池时要戴上抗化学腐蚀的橡胶手套。

其他:保持良好的化学卫生习惯。清理完泄漏电池的漏液后要彻底地清洗手。在贮存电池的区域不吃东西,不喝酒,不吸烟。

Report No.: Pa

9. Physical and Chemical Properties 物理和化学特性

State 状态: Solid 固体

Odor 气味:N/APH 值:N/AVapor pressure 气压:N/AVapor density 气体密度:N/ABoiling point 沸点:N/A

Solubility in water 在水中的溶解度: Insoluble 不溶

Specific gravity 比重: N/A Density 密度: N/A

10. Stability and Reactivity 稳定性和反应活性

Stability: Stable

Conditions to Avoid: Do not heat, throw into fire, disassemble, short circuit, immerse

in water or overcharge, etc.

Incompatibility: None during normal operation. Avoid exposure heat, open flame and

corrosives.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: The battery may release irritative gas once the electrolyte leakage.

稳定性: 稳定

避免条件:不能加热,不要置于火中,不随便拆解,不短路,不浸入水中,不过充等。

不适用性:正常操作条件下没有。避免暴露在高温、明火和腐蚀性物质环境中。

聚合物危害:不会发生。

拆解产品危害:一旦电解液泄漏,电池会挥发出刺激性气体。

11. Toxicological Information有害物质信息

The battery does not elicit toxicological properties during routine handling and use. If the battery is opened through misuse or damage, discard immediately. Internal components of cell are irritant and sensitization.

Irritancy: The electrolytes contained in this battery can irritate eyes with any contact. Prolonged contact with the skin or mucous membranes may cause irritation.

Sensitization: No information is available.

Teratogenicity: No information is available.

Carcinogenicity: No information is available.

Mutagenicity: No information is available.

Reproductive toxicity: No information is available.

电池在正常的操作和使用中不能有发出有毒物质。如果由于不正确的使用或破坏导致电池裂开,立即丢掉。电芯内部成分有刺激性甚至诱发过敏。

刺激性: 电池内部的电解液会刺激眼睛。皮肤或黏膜长时间接触或产生刺激效应。

过敏:没有可用的信息。

致畸胎性:没有可用的信息。 **致癌性**:没有可用的信息。 **诱变性**:没有可用的信息。 **生殖毒性**:没有可用的信息

12. Ecological Information生态信息

1. When properly used and disposed, the battery does not present environmental hazard.

正确使用电池时不会造成环境损害。

2. The battery does not contain mercury, cadmium, or lead. 电池不能含有汞、镉、铅。

3. Do not let internal components enter marine environment. Avoid releasing to water ways,

wastewater or ground water.

不要让电池内部成分进入水生态。避免排入水路系统、废水和地下水中。

13. Disposal Considerations废弃处理

- 1. Disposal of the battery should be performed by permitted, professional disposal firms knowledgeable in Federal, State or Local requirements of hazardous waste treatment and hazardous waste transportation.处理电池要有许可,在联邦、国家或者当地危害物质处理部门和危害物质运输部门要求的专业处理知识。
- 2. The battery should be completely discharged prior to disposal and/or the terminals taped or capped to prevent short circuit. When completely discharged it is not considered hazardous.处理电池之前要完全放电或者把电池末端用胶带粘上防止短路。完全放电的电池被认为是没有危害的。
- 3. The battery contains recyclable materials. Recycling options available in your local area should be considered when disposing of this product, through licensed waste Carrier.

电池包含可循环利用的材料。在当地回收利用这些处理掉的产品时,要取得废弃物处理的授权。

14. Transport Information运输信息

According to PACKING INSTRUCTION 965 ~ 967 of IATA DGR 62nd Edition for transportation, the special provision 188 of IMDG (inc Amdt 40-20). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship should be cleaned and sterilized before transport. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area.

根据包装说明的 IATA DGR 第 62 期 965~967 运输、IMDG 的特殊条款 188(inc Amdt 40-20)。电池应牢固地填充,防止短路。检查集装箱的包装是否在运输前整合并拧紧。确定没有一个货物掉落,跌落,和破损,防止货物堆崩溃。不要把货物与氧化剂,食品放在一起。运输车辆和船舶在运输前应清洗和消毒,运输车辆应避免接触雨水和高温。停留时,车辆应远离火和热源。海运时,装配位置应远离卧室和厨房,并从机舱、电源和火源处隔离。公路运输情况下,司机开车应该按照规定路线,不要在居民区和人口稠密区停留。

- (a) UN number UN 编号 3480&3481
- (b) UN Proper shipping name UN 适当的运输名称

LITHIUM ION BATTERIES (including lithium ion polymer batteries) or; LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)

锂离子电池(包括锂聚合物电池)或,锂离子电池安装在设备内或,锂离子电池与设备包装在一起(包括锂聚合物电池)。

- (c) Transport hazard class(es)运输风险类 9
- (d) Packing Instruction (if applicable)包装方式(如果适用) 965 II/ IB, 966 II, 967 II
- (e) Marine pollutant 海洋污染物(Yes/No) No
- (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) 散装运输

No information available.无可用信息。

(g) Special precautions 特别预防措施 No information available.无可用信息。

15. Regulatory Information监管信息

The transport of rechargeable lithium-ion batteries regulated by the united nations as detailed in the "model Regulations on the transport of dangerous Goods Ref. ST/SG/AC.10/1 Revision 20 2017".

Defined by UN in the "Recommendations on the transport of Dangerous Goods Chapter 38.3 Manual of Tests and Criteria Ref. ST/SG/AC.10/11 Rev.6/Amend.1 2017". The Lithium-ion Cells and the battery Packs may or may not be assigned to the UN No. 3480 Class-9 that is restricted for transport.

可充电锂离子电池的运输受联合国的统一监管,详见"关于危险货物运输的新型法规参考ST/SG/AC.10/1 20版本 2017"。

联合国在"关于危险货物第38.3章试验和标准手册参考ST/SG/AC.10/11第六修订版修正12017"里明确规定, 锂离子电芯和电池组有可能或可能不被划分到UN3480 第九类危险品(运输受限)。

16. Other Information其他信息

Prepared Department 申请商: Jiangsu Highstar Battery Manufacturing Co.,Ltd 江苏海四达电源股份有限公司

- -- End of report --
 - -- 报告结束 --