



材料安全数据表

MATERIAL SAFETY DATA SHEET

申请商
Applicant 株式会社アイプラン

申请商地址
Applicant address 日本国東京都千代田区岩本町2-15-19 岩本町サニービル3階

产品名称
Name of product 锂离子聚合物电池组

型号
Model VGP-BPS24

编制单位
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Written by: _____

(批准)

Approved by: _____



Material Safety Data Sheet

第一部分-化学品及企业标识

Section 1-Chemical Product and Company Identification

产品名称 Product Name	锂离子聚合物电池组 Li-ion polymer Battery park
型号 Model	VGP-BPS24
额定参数 Ratings	11.1V 4400mAh 49Wh
重量 Weight	260.41g
制造商 Manufacturer	利瑞盛新能源科技(惠州)有限公司 Liruisheng New Energy Technology (Huizhou) Co., Ltd
制造商地址 Manufacturer Address	广东省惠州市仲恺高新区平南工业区48号小区二期厂房(五层) Phase II Plant (Fifth Floor), No.48 District, Pingnan Industrial Park, Zhongkai Hi-Tech Development Zone, Huizhou City, Guangdong
应急电话 Emergency Telephone	15107527650
邮箱 Mail	songruifeng@liruisheng-hz.com

第二部分-成分信息

Section 2- Composition Information

化学成分 Chemical Composition	CAS号 CAS No.	重量含量 (%) Weight (%)
钴酸锂 Lithium cobaltate	12190-79-3	39.22
铝箔 Aluminium	7429-90-5	4.62
石墨 Graphite	7782-42-5	22.72
铜箔 Copper	7440-50-8	8.9
镍 Nickel	7440-02-0	1.37
聚乙烯 Polyethylene	9002-88-4	0.31
六氟磷酸锂 Lithium hexafluorophosphate	21324-40-3	19.4
丁苯橡胶 Styrene Butadiene Rubber	9003-55-8	1.15
聚偏氟乙烯树脂 Polyvinylidene fluoride	24937-79-9	1.61
聚丙烯 Polypropylene	9003-07-0	0.7

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第三部分-危险性概述 Section 3- Hazards Identification

紧急情况概述 Emergency overview	不适用 N/A
GHS分类 Classification according to GHS	不属于GHS危险物品 Not a dangerous substance according to GHS
标签元素 Label elements:	
危险标签图 Hazard pictogram(s)	不适用 No available
提示语 Signal word	不适用 No available
危险声明 Hazard statement(s)	不适用 No available
预防声明 Precautionary statement(s):	
预防 Prevention	不适用 No available
反应 Response	不适用 No available
处理 Disposal	不适用 No available
环境危害 Environmental hazards:	无相关信息 No relevant information
重要症状 Important symptoms:	见第11部分更多信息 See section 11 for more information

第四部分-急救措施 Section 4- First Aid Measures

眼睛接触 Eye contact	万一接触,立即用大量的清水冲洗至少15分钟,翻起上下眼睑,直到化学的残留物消失为止,迅速就医。 Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
皮肤接触 Skin contact	万一接触,用大量的水冲洗至少15分钟,同时除去污染的衣物和鞋子,迅速就医。 Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
吸入 Inhalation	立即从暴露处移至空气清新处,如果呼吸困难给予输氧,立即就医。 Remove from exposure and move to fresh air immediately. Use oxygen if available.
摄入 Ingestion	饮用两杯牛奶或水,如果当事人仍然清晰可以采取催吐的方法,并且立即就医。 Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

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

燃点 Flash Point	不适用 N/A
自燃温度 Auto-Ignition Temperature	130°C
灭火介质 Extinguishing Media	干粉, 二氧化碳, 砂子, 土等。 Dry powder, CO2, soil sand , so on.
特殊灭火程序 Special Fire-Fighting Procedures	自给式呼吸器 Self-contained breathing apparatus
异常火灾或爆炸 Unusual Fire and Explosion Hazards	当电芯暴露于过热的环境中时, 安全阀可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents
燃烧产生的危险物品 Hazardous Combustion Products	一氧化碳, 二氧化碳, 锂氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes.

第六部分-泄露应急处理 Section 6- Accidental Release Measures

个人预防措施、保护设备和应急程序:

如果电池被泄露, 让人员离开该区域直到烟雾消散。提供最大限度的通风, 清除有害气体。首选的反应就是离开这个地区并消散气体, 避免皮肤和眼睛接触或吸入气体。用吸收剂清除溢出的液体然后焚烧。如果电池泄漏发生时, 液体可以用砂、泥土或其他惰性物质来吸收, 污染区域应该保持通风。

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate, Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

环境预防措施:

不允许产品到达排水系统或任何水源。
如果渗透进排水系统或任何水源, 通知相应的部门。
不允许进入下水道/表面或地下水。

Environment precautions:

Do not allow product to reach sewage system or any water source.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

抑制和清理材料的方法:

如果电池外壳被拆除, 少量电解液可能会泄漏。收集所有材料放进一个塑料容器。根据当地的法律法规来处置, 避免可溶物质进入大地、下水道或水源。

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules, Avoid leached substances to get into the earth, canalization or waters.

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第七部分-操作处置和储存 Section 7- Handling and Storage

操作处置 Handling	禁止打开、毁坏或焚烧电池, 因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。 禁止将电池短路、过充、强制放电或扔入火中。 禁止挤压或刺穿电池, 或将电池浸入溶液中。 The battery 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 battery, or immerse in liquids.
储存 Storage	禁止物理或电滥用, 禁止高温储存, 最好将电池储存在阴凉、干燥、通风及温度变化较小的环境中。 禁止将电池接触加热设备, 或将电池长时间直接暴露在阳光中。 Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.
其他要注意的防范措施 Other Precautions	拆解、挤压、直接放入火中或高温条件下, 电池可能发生爆炸和燃烧。 禁止短接或将电池正负极错误的安装在设备中。 The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

第八部分-接触控制和个体防护 Section 8- Exposure Controls/Personal Protection

设计控制 Engineering Controls	设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 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.
个人防护装备 Personal Protective Equipment	呼吸防护: 在正常情况下不需要。 皮肤和身体防护: 在正常情况下不需要, 如果处理一个裂开的或泄漏的电池需要穿戴适当的防护服和手套。 手保护: 如果处理一个裂开的或泄漏的电池需要戴适当手套。 眼睛保护: 在正常情况下不需要, 如果处理一个裂开的或泄漏的电池需要戴上安全眼镜。 Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable 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.
其它防护装备 Other Protective Equipment	在工作区域应该有一个立即可以使用的安全淋浴和喷水洗眼器。 Have a safety shower and eye wash fountain readily available in the immediate work area.

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卫生措施 Hygiene Measures	在工作区域不得进食, 饮水或吸烟。 Do not eat, drink, or smoke in work area. Maintain good housekeeping.
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第九部分-物理和化学特性 Section 9- Physical and Chemical Properties

形态 Form	固体 Solid
外观 Appearance	黑色近长方体 Approximate black Cuboid
气味 Odour	不适用 No available
酸碱度 pH	不适用 No available
熔点/凝固点 Melting point/freezing point	没有相关资料 No relevant information Available
沸点、沸点范围: Boiling Point and Boiling range	没有相关资料 No relevant information Available
易燃度 Flash Point	没有相关资料 No relevant information Available
自燃或爆炸的上、下极限 Upper/lower flammability or explosive limits	不适用 No available
蒸汽压 Vapor Pressure	不适用 No available
蒸汽密度 Vapor Density	不适用 No available
相对密度 Relative density	没有相关资料 No relevant information Available
水溶性 Solubility in Water	不适用 No available
自燃温度 Auto-ignition temperature	130°C
分解温度 Decomposition temperature	不适用 No available
蒸发速率 Evaporation rate	没有相关资料 No relevant information Available
易燃性(土壤、天然气) Flammability (soil, gas)	没有相关资料 No relevant information Available
粘性 Viscosity	没有相关资料 No relevant information Available
其它信息 Other information	11.1V 4400mAh 49Wh

第十部分 稳定性和反应活性 Section 10- Stability and reactivity

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稳定性 Stability	产品在第七部分所述的条件下稳定 The product is stable under conditions described Section 7
应避免的条件 Conditions to Avoid	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。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
不兼容的材料 Incompatible Materials	氧化剂, 酸, 碱。 Oxidizing agents, acid, base.
危险分解物 Hazardous Decomposition Products	一氧化碳、二氧化碳、氧化锂烟雾。 Carbon monoxide, carbon dioxide, lithium oxide fumes.
危险反应的可能性 Possibility of Hazardous Reaction	不适用 Not Available

第十一部分-毒理学资料 Section 11 – Toxicological Information

刺激 Irritation	如果电芯的外壳受到机械、热或电的滥用到达一定程度, 会发生刺激的风险。如果发生这种情况, 可能会刺激皮肤、眼睛和呼吸道。 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.
致过敏 Sensitization	没有相关资料 No relevant information Available
影响神经系统 Neurological Effects	没有相关资料 No relevant information Available
致畸 Teratogenicity	没有相关资料 No relevant information Available
再生毒性 Reproductive Toxicity	没有相关资料 No relevant information Available
诱变(遗传效应) Mutagenicity (Genetic Effects)	没有相关资料 No relevant information Available
附带材料毒性 Toxicologically Synergistic Materials	没有相关资料 No relevant information Available

第十二部分-生态学资料 Section 12- Ecological Information

生态毒性 Ecological Toxicity	不适用 Not Available
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在土壤中的流动性 Mobility in soil	不适用 Not Available
持久性和分解性 Persistence and Degradability	不适用 Not Available
生物累积 Bioaccumulation potential	不适用 Not Available
其他不利影响 Other Adverse Effects	不适用 Not Available
第十三部分-废弃处置 Section 13- Disposal Considerations	
产品废弃处理建议 Product disposal recommendation	遵守当地、州和联邦法律和法规。 Observe local, state and federal laws and regulations.
包装处理建议 Packaging disposal recommendation	废弃处理必须根据当地法规 Disposal must be made according to official regulations
第十四部分-运输信息 Section 14 – Transport Information	
运输标签 Label for conveyance	锂电池标签 9类危险品标签 仅限货机标签 Lithium Battery Label Class 9 Hazard Label Cargo aircraft Only Label
UN 编号 UN Number	UN3480&UN3481
运输风险类别 Transport hazard class(es)	9
包装等级 Packing group	不适用 N/A
联合国运输专用名称 UN Proper shipping name	锂离子电池或 Lithium ion batteries or 锂离子电池与设备包装在一起或 Lithium ion batteries packed with equipment or 设备中包含的锂离子电池 Lithium ion batteries contained in equipment
货物应遵守IATA第67版DGR手册包装说明965 Section IB, 966 Section II, 967 Section II 规定和海运危险货物规则 (Amdt. 42-24), 包括通过UN38.3测试手册要求。 根据《联合国危险品货物运输规章范本》特别条款188, 锂离子聚合物电池组可作为“非危险货物”处理, 条件是包装牢固并防止产品短路,防止位移, 防止意外启动。 运输方式: 空运, 海运, 铁路, 公路。	

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Transport information:

The goods shall be complied with the requirements of 965 Section IB, 966 Section II, 967 Section II of 67th DGR Manual of IATA or IMDG CODE (Amdt. 42-24), including the passing of the UN38.3 test.

Li-ion polymer Battery pack can be treated as "Non-dangerous goods" under the United Nations Recommendations on the Transport of Dangerous Goods, SP188, provided that packaging is strong and prevent the products from short-circuit, prevent displacement, preventing accidental activation.

Transport Fashion: By air, by sea, by railway, by road.

第十五部分 法规信息

Section 15- Regulatory information

法律信息**Law information**

《危险物品规则》
《Dangerous Goods Regulations》
《对危险货物运输的有关规定的建议》
《Recommendation on the Transport of Dangerous Goods Model Regulations》
《国际海运危险货物规则》
《International Maritime Dangerous Goods》
《危险品安全运输技术指令》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《危险货物分类和品名编号》
《Classification and code of dangerous Goods》
《职业安全卫生法》
《Occupational Safety and Health Act》(OSHA)
《有毒物质控制法》
《Toxic Substance Control Act》(TSCA)
《消费产品安全法》
《Consumer Product Safety Act》(CPSA)
《联邦环境污染控制法》
《Federal Environmental Pollution Control Act》(FEPCA)
《石油污染控制法》
《The Oil Pollution Act》(OPA)
《超级基金修正案和再授权法案III(302/311/312/313)》
《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》(SARA)
《资源保护及恢复法案》
《Resource Conservation and Recovery Act》(RCRA)
《安全饮用水法》
《Safety Drinking Water Act》(CWA)
《加州65提案》
《California Proposition 65》
《美国联邦法规》
《Code of Federal Regulations》(CFR)
根据所有联邦、州和地方法律。
In according with all Federal, State and local laws.

第十六部分-其它信息

Section 16- Other Information

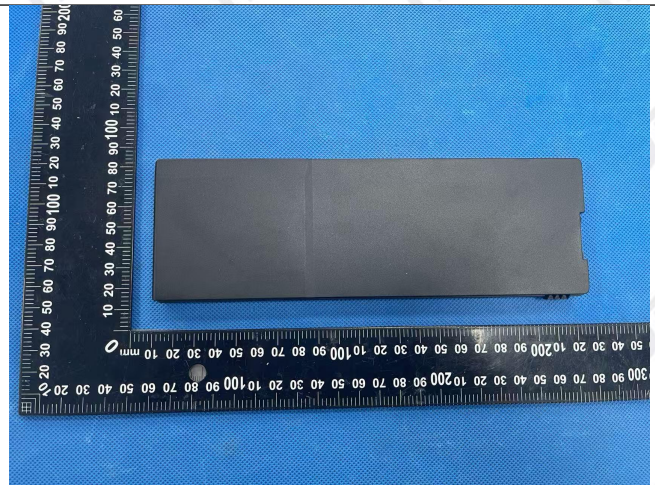
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上面的信息被认为是准确代表了目前最好的信息提供给我们。然而,飞机没有对商品性能保证或任何其他保证,包括明示或暗示,对这类信息的使用我们不承担责任。用户应作出自己的调查,以确定是否适合其特定用途的信息。虽然在此处所包含的数据的准备已经采取了合理的预防措施,这是仅为你提供的信息、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南,它并不能对所有可能发生的情况提供建议,因此,您特殊使用该产品应先进行评估,以确定是否需要额外的预防措施。

The information above is believed to be accurate and represents the best information currently available to us. However, concorde 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 material 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.



Front view of battery



Back view of battery



Label of battery

-- End of Report --