

MSDS 报告 Report

报告编号 : AGC01741240602UA02
Report No.

产 品 名 称 : 便携式储能电源
PRODUCT DESIGNATION : Portable Power Station
商 标 : BLUETTI
BRAND NAME
样 品 型 号 : AC50P
MODEL NAME
申 请 商 : 深圳市德兰明海新能源股份有限公司
APPLICANT : SHENZHEN POWEROAK NEWENER CO., LTD
签 发 日 期 : 2024 年 07 月 19 日
DATE OF ISSUE
检 测 标 准 : GB/T16483-2008, ISO11014:2009
STANDARD(S)
报 告 版 本 : V1.0
REPORT VERSION

深圳市鑫宇环检测有限公司

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化学品安全技术说明书

Material Safety Data Sheet

依据 GB/T16483-2008&ISO11014:2009 编制

According to GB/T16483-2008&ISO11014:2009

第一部分 化学品及企业标识

Section 1 - Chemical Product and Company Identification

化学品信息

Chemical product information

样品名称 Sample Name	便携式储能电源 Portable Power Station	样品型号 Sample Model	AC50P
收样日期 Sample Receiving Date	2024 年 06 月 27 日	规格 Rating	22.4V 22500mAh 504Wh

单位信息

Company information

申请商 Applicant	深圳市德兰明海新能源股份有限公司 SHENZHEN POWEROAK NEWENER CO., LTD
申请商地址 Applicant Address	深圳市南山区西丽街道新围社区同沙路 168 号凯达尔集团中心大厦 1 号楼十九层 F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China
工厂 Factory	惠州市新明海科技有限公司 Huizhou PowerOak Innovation Co.,Ltd
工厂地址 Factory Address	广东省惠州大亚湾西区老鞞村龙盛五路（1 号厂房） （No.1 Workshop）Longsheng 5th Road, Laoshe Village, Dayawan West Zone, Huizhou, Guangdong, China
联系电话 Telephone	0752-5192099
传真号码 Fax number	0752-5192099
邮政编码 Post code	518055
应急电话 Emergency telephone	0752-5192099
电子邮件 E-mail	sunxp@poweroak.net

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第二部分 危险性概述

Section 2 - Hazards Identification

爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation 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 dangerous goods
其他危险性 other risk	该电池瓦时率为 504Wh, 属于第九类危险品货物 Watt hour rate 504Wh, which belong to the Class 9 of dangerous goods

第三部分 成分/组成信息

Section 3 - Composition, Information on Ingredients

该物质或混合物的分类: ☐ 物质 ☒ 混合物

Classification of the substance or mixture: ☐ substance ☒ mixture

化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
磷酸铁锂 LiFePO ₄	15365-14-7	34.11
石墨 C	7782-42-5	16.40
六氟磷酸锂 LiPF ₆	21324-40-3	1.84
聚偏氟乙烯 (CH ₂ CF ₂) _n	24937-79-9	0.71
铁粉 Iron	7439-89-6	18.54
铜 Cu	7440-50-8	7.90
铝 Al	7429-90-5	4.10
镍 Ni	7440-02-0	0.25
炭黑 Acetylene black	1333-86-4	0.61

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化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
丁苯橡胶 SBR	9003-55-8	0.31
羧甲基纤维素钠 CMC	9004-32-4	0.26
碳酸乙烯酯 EC	96-49-1	1.7
碳酸二甲酯 DMC	616-38-6	5.83
碳酸丙烯酯 Propylene carbonate	108-32-7	2.33
碳酸甲乙酯 EMC	623-53-0	1.8
聚乙烯 Polyethylene	9002-88-4	1.96
聚(乙烯对苯二甲酸酯) Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylenecarbonyl)	25038-59-9	1.35

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

总说明: 正常情况下, 不需要特别的措施。

General information: No special measures required.

吸入: 立即将人员移至通风处, 如果呼吸困难, 速进行人工呼吸抢救。如症状持续, 速就医。

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

皮肤接触: 脱去污着衣物, 用大量的水清洗, 然后清洗双手, 衣物清洗后再使用。如果症状持续, 速就医。

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

眼睛接触: 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

食入: 禁止催吐, 速就医。

After swallowing: Do not induce vomiting. Get medical attention.

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

灭火剂: 使用适合当地情况和周围环境的灭火剂, 如干粉, CO₂。

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

特别危险性: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温(> 150°C(302°F))时, 含有易燃电解液的电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电)时, 可能燃烧迅速与耀斑燃烧效果, 也可能引燃其他在电池附近衣服。

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte

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that may vent, ignite and produce sparks when subjected to high temperature(>150°C (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

灭火方法注意事项及防护措施: 请使用大量水, 干燥的化学粉末等合适的介质。如起火, 佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Please use plenty of water, dry chemical powder, etc. Wear self-contained respirator. Wear fully protective impervious suit.

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

作业人员防护措施、防护装备和应急处置程序: 穿上保护装备, 疏散人群, 确保有足够的通风。

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

泄漏化学品的收容、清除方法及所使用的处置材料: 从泄露区移除所有的火源, 隔离人员。用一个不产生粉尘的方法打扫处理泄漏物, 尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道, 沟渠或水源。所有废弃物必须参照联合国, 国家, 地方性法规进行处置。

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

防止次生灾害的预防措施: 有关安全处理的资料请参阅第七部分。有关个人保护装备的资料请参阅第八部分。有关弃置的资料请参阅第十三部分。

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

第七部分 操作处置与储存 Section 7 - Handling and Storage

操作注意事项: 储存时远离食物和水源。吃饭喝水前彻底清洗双手。储有化学物的容器搬用时需防止静电的产生和积聚。

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

有关火灾及防止爆炸的资料: 电池在拆开、挤压、遇火或高温情况下, 会引起起火或爆炸, 严禁短路或非正确操作。

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

储存注意事项: 储存在一个低温, 干燥, 通风良好的环境。远离热源, 避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

第八部分 接触控制/个体防护

Section 8 - Exposure Controls, Personal Protection

工程控制

Engineering control

一般保护和卫生措施: 当处理化学物品时, 应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

呼吸防护: 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。

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.

通风条件: 正常使用条件下不需要。

Ventilation: Not necessary under conditions of normal use.

个体防护设备 Personal Protection

手防护 Hand protection	眼睛防护 Eye protection
 Protective gloves	 Tightly sealed goggles

第九部分 理化特性

Section 9 - Physical and Chemical Properties

有关基本物理及化学特性的信息 Information on basic physical and chemical properties	
外观 Appearance	黑色 Black
形状 Form	近长方体 Almost Cuboid
气味 Odour	无味 Odorless

第十部分 稳定性和反应活性

Section 10 - Stability and Reactivity

稳定性: 正常情况下稳定。

Chemical stability: Stable in normal circumstances.

应避免条件: 火焰, 火花和其他热源, 禁忌物。

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

禁配物: 氧化剂, 酸, 碱。

Incompatibilities: Oxidizing agents, acid, base.

危险的分解产物: 有毒烟雾, 并可能形成过氧化物。

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Hazardous Combustible Products: toxic fumes and may form peroxides.

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

标志及症状：无，除非电池破裂。

Signs & symptoms: None, unless battery ruptures.

内部物质暴露的情况下，蒸汽烟雾可能对眼睛和皮肤的刺激性。

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

吸入：对肺有刺激性。

Inhalation: Lung irritant.

皮肤接触：对皮肤刺激性。

Skin contact: Skin irritant.

眼睛接触：对眼睛有刺激性。

Eye contact: Eye irritant.

食入：吞下中毒。

Ingestion: Poisoning if swallowed.

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

对哺乳动物的影响：目前未知。

Mammalian effects: None known at present.

生态毒性：目前未知。

Eco-toxicity: None known at present.

生物体内积累：慢慢地生物降解。

Bioaccumulation potential: Slowly Bio-degradable.

环境危害：目前没有已知的环境危害。

Environmental fate: None known environmental hazards at present.

第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法建议：请参考国家和地方的相关法规正确进行处理。

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议：必须根据官方的规章来丢弃。

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

第十四部分 运输信息
Section 14 - Transport Information

联合国危险货物编号 UN Number	UN3480
UN 运输专用名称 UN Proper shipping name	锂离子电池 Lithium Ion Batteries
运输危险等级 Transport hazard class(es)	9
包装组别 Packing group	N/A
海运污染物质 Marine pollutant	否 No

运输信息：该锂电池（AC50P 22.4V 22500mAh）已通过UN38.3测试，

Transport information: The Lithium Battery (AC50P 22.4V 22500mAh) has passed the test UN38.3.

运输过程中请根据危险品规则DGR第65版包装规定965第IA部分执行。

According to the Packing Instruction 965 section IA of IATA DGR 65th Edition for transportation.

运输过程中请根据海运危险品规则IMDG (41-22)特殊规定188，或者《联合国危险货物运输的建议书规章范本》(22)执行，该产品属于危险品。

According to the special provision 188 of IMDG (41-22) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (22). The package is subjected to dangerous goods.

更多关于锂离子电池运输，测试，包装等相关规定请参见网址<http://www.labelmaster.com>.

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

电池相互隔开并防止短路，泄露，并装放在结实的容器内运输。

注：该电池在运输过程中应防止剧烈振动、冲击或挤压，防止日晒雨淋。具体细节请参照本文第七部分操作处置与储存。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

备注：电池净重<5kg(空运，电池与设备打包运输)。

Note: Batteries weight in the package<5kg(By air, Batteries packed with equipment).

备注：电池净重<5kg(空运，电池装在设备中运输)。

Note: Batteries weight in the package<5kg(By air, Batteries installed in equipment).

运输方式：空运，海运，铁路，公路。

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

第十五部分 法规信息

Section 15 - Regulatory Information

此MSDS符合法规 (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

下列法律、法规、规章和标准对该物质或混合物的管理做了相应的规定:

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
磷酸铁锂 LiFePO ₄	15365-14-7	列入 Listed	列入 Listed	DSL	未列入 Not Listed
石墨 C	7782-42-5	列入 Listed	列入 Listed	DSL	列入 Listed
六氟磷酸锂 LiPF ₆	21324-40-3	列入 Listed	列入 Listed	NDSL	列入 Listed
聚偏氟乙烯 (CH ₂ CF ₂) _n	24937-79-9	列入 Listed	列入 Listed	DSL	未列入 Not Listed
铁粉 Iron	7439-89-6	列入 Listed	列入 Listed	DSL	列入 Listed
铜 Cu	7440-50-8	列入 Listed	列入 Listed	DSL	列入 Listed
铝 Al	7429-90-5	列入 Listed	列入 Listed	DSL	列入 Listed
镍 Ni	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed
炭黑 Acetylene black	1333-86-4	列入 Listed	列入 Listed	DSL	列入 Listed
丁苯橡胶 SBR	9003-55-8	列入 Listed	列入 Listed	DSL	未列入 Not Listed
羧甲基纤维素钠 CMC	9004-32-4	列入 Listed	列入 Listed	DSL	未列入 Not Listed
碳酸乙烯酯 EC	96-49-1	列入 Listed	列入 Listed	DSL	列入 Listed
碳酸二甲酯 DMC	616-38-6	列入 Listed	列入 Listed	DSL	列入 Listed
碳酸丙烯酯 Propylene carbonate	108-32-7	列入 Listed	列入 Listed	DSL	列入 Listed
碳酸甲乙酯 EMC	623-53-0	列入 Listed	列入 Listed	NDSL	列入 Listed
聚乙烯 Polyethylene	9002-88-4	列入 Listed	列入 Listed	DSL	列入 Listed
聚(乙烯对苯二甲酸酯) Poly(oxy-1,2-ethane diyloxycarbonyl-1,4- phenylenecarbonyl)	25038-59-9	列入 Listed	列入 Listed	DSL	未列入 Not Listed

注: EINECS: 欧盟现有化学物质名录 (European Inventory of Existing Chemical Substances)

ELINCS: 欧洲已申报化学物质名录 (European List of Notified Chemical Substances)

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DSL: 加拿大国内化学物质名录 (Canadian Domestic Chemical Substances)
IECSC: 中国现有化学物质名录 (Inventory of Existing Chemical Substances in China)
NDSL: 加拿大非国内化学物质名录 (Canadian non-domestic Chemical Substances)
NLP: 欧盟不被认为是聚合物的名录
TSCA: 美国TSCA物质名录 (Toxic Substances Control Act of USA)

第十六部分 其他信息 Section 16 - Additional Information

注意 Declare to reader:

上述信息是基于现有的数据信息,在实际应用过程中可能出现其他未预料的情况,其相应信息可能需要修改,我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

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样品图片:

Sample Photos:



本报告仅对送检样品负责

The test report is valid for the tested samples only

---报告结束 End of Report---

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