

Report No.: TSZ23110316-P10-R02

材料安全数据表

Material Safety Data Sheet

报告本年度有 有效期至 2024 年 12 月 31 日

样品名称: 便携式储能电源

Sample name: **Portable Power Station**

样品型号:

AC180P

Sample model:

深圳市德兰明海新能源股份有限公司

委托单位:

SHENZHEN POWEROAK NEWENER

Applicant:

CO.,LTD

签发时间 Date of issue: 2023.12.09

Written by 小孩茶

Approved by 段12净

量檢測股份有限公司

(01-03)

Shenzhen Tiansu Calibration and Testing Co., Ltd.





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* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request. 这份材料安全数据表是根据客户提供的信息编辑,其内容和格式按客户要求来修订。

笆_	-部分-	- 化学	品人	3 企	业标识
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Section 1-Chemical Product and Company Identification

便携式储能电源
Portable Power Station
AC180P
AC 180F
-
32V/45Ah/1440Wh
32 V/43A11/ 1440 VVII
16.075kg
16.075kg
深圳市德兰明海新能源股份有限公司
SHENZHEN POWEROAK NEWENER CO.,LTD
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
0752-5792099
0102-0192099

第二部分-成分信息

Section 2- Composition Information

化学成分	CAS 등	重量含量(%)	
Chemical Composition	CAS No.	Weight (%)	
磷酸铁理	15365-14-7	25 70/	
Ferrous lithium phosphate	15505-14-7	35.7%	
不锈钢	12597-68-1	14.9%	
Stainless steel	12397-08-1		
石墨	7782-42-5	17.6%	
Graphite	1162-42-5	17.076	
铜	7440-50-8	7.1%	
Copper	7440-30-0	1.170	





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碳酸二甲酯 Dimethyl carbonate	616-38-6	6.6%
组 Aluminum	7429-90-5	3.3%
碳酸乙烯酯 Ethylene carbonate	96-49-1	4.7%
六氟磷酸钾 Lithium Hexafluorophosphate	21324-40-3	2.7 %
聚乙烯 Plyethylene	9002-88-4	2.1%
碳酸甲乙酯 Ethyl Methyl Carbonate	623-53-0	2.1%
碳黑 Carbon black	1333-86-4	0.9%
聚对苯二甲酸乙二酯醇 Polyethyl terephthalate alcohol	25038-59-9	0.8%
聚偏氟么烯 Polyvinylidene difluoride	24937-79-9	0.7%
丁苯橡胶 Polymerized Styrene Butadiene Rubbe	9003-55-8	0.4%
羚甲基纤维素钠 Carboxymethylcellulose sodium	9004-32-4	0.3%
聚丙烯 Polypropylene	9003-07-0	0.1%

Section 3– Hazards Identification

紧急情况概述	不适用		
Emergency overview	N/A		
标签元素			
Label elements:			
危险标签图	不适用		
Hazard pictogram(s)	Not Applicable		
提示语	不适用		
Signal word	Not Applicable		
危险声明	不适用		
Hazard statement(s)	Not Applicable		
预防声明			
Precautionary statement(s):			
预防	不适用		
Prevention	Not Applicable		





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反应	不适用			
Response	Not Applicable			
废弃处理	不适用			
Disposal	Not Applicable			
环境危害	No relevant information			
Environmental hazards:	无相关信息			
重要症状	See section 11 for more information			
Important symptoms:	见第11部分更多信息			
	第四部分-急救措施			
	N II FI N MANAGAR			
Sec	ction 4- First Aid Measures			
	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			
眼睛接触	留物消失为止,迅速就医。			
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the			
	upper and lower eyelids. Get medical aid.			
	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			
皮肤接触	医。			
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower			
	for 15 minutes. Get medical aid.			
	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。			
吸入	Remove from exposure and move to fresh air immediately. Use oxygen if			
Inhalation	available.			
摄入	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。			
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is			
3	unconscious. Call a physician.			
	第五部分-消防措施			
Secti	on 5- Fire Fighting Measures			
燃点	不适用			
Flash Point	N/A			
自燃温度	不适用			
Auto-Ignition Temperature	N/A			
	· · · · · · · · · · · · · · · · · · ·			
灭火介质 Extinguishing Media	映画水面位性別,一氧化映 Hydrocarbon surfactant,CO ₂			
特殊灭火程序	自给式呼吸器			
Special Fire-Fighting Procedures	Self-contained breathing apparatus			
异常火灾或爆炸	当电芯暴露于过热的环境中时,安全阀可能会打开			
Unusual Fire and Explosion	Cell may vent when subjected to excessive heat-exposing battery contents			
Hazards				
燃烧产生的危险物品	一氧化碳,二氧化碳,锂氧化物烟气			
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.			
	第六部分-泄露应急处理			
Section	6- Accidental Release Measures			





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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.

第十	カワ ハ	-操作	- Ll	甲	Lu	ハヤ ナ	-
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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。			

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	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.		
	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。		
 其他要注意的防范措施	禁止短接或将电池正负极错误的安装在设备中。		
Other Precautions	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- E	xposure Controls/Personal Protection		
	设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。		
 设计控制	Use local exhaust ventilation or other engineering controls to control sources		
Engineering Controls	of dust, mist, fumes and vapor.		
	Keep away from heat and open flame. Store in a cool, dry place.		
	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		
 个人防护装备	安全眼镜。		
Personal Protective Equipment	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.		
—————————————————————————————————————	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。		
其它防护装备 Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the		
	immediate work area.		

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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卫生措施

Hygiene Measures





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第九部分-物理和化学特性					
Section 9-	Physical and Chemical Properties				
颜色	黑色				
Color	Black				
气味	不适用				
Odour	Not Applicable				
酸碱度	不适用				
рН	Not Applicable				
熔点/凝固点	不适用				
Melting point/freezing point	Not Applicable				
沸点、沸点范围:	不适用				
Boiling Point and Boiling range	Not Applicable				
易燃度	不适用				
Flash Point	Not Applicable				
自燃或爆炸的上、下极限	不适用				
Upper/lower flammability or	Not Applicable				
explosive limits	Not Applicable				
蒸汽压	不适用				
Vapor Pressure	Not Applicable				
蒸汽密度	不适用				
Vapor Density	Not Applicable				
相对密度	不适用				
Relative density	Not Applicable				
水溶性	不适用				
Solubility in Water	Not Applicable				
自燃温度	不适用				
Auto-ignition temperature	Not Applicable				
分解温度	不适用				
Decomposition temperature	Not Applicable				
蒸发速率	不适用				
Evaporation rate	Not Applicable				
易燃性(土壤、天然气)	不适用				
Flammability (soil, gas)	Not Applicable				
粘性	不适用				
Viscosity	Not Applicable				
	第十部分 趋定性和反应活性				

第十部分 稳定性和反应活性

Section 10- Stability and reactivity





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, 3	Page 8 / 11 Pages				
稳定性	产品在第七部分所述的条件下稳定				
Stability	The product is stable under conditions described Section 7				
应避免的条件	加热 70℃ 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。				
Conditions to Avoid	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	氧化剂,酸,碱。				
Incompatible Materials	Oxidizing agents, acid, base.				
危险分解物	一氧化碳、二氧化碳、氧化锂烟雾。				
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.				
危险反应的可能性	不适用				
Possibility of Hazardous Reaction	Not Applicable				
11000UUII	第十一部分-毒理学资料				
Section	Section 11 - Toxicological Information				
刺激	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。				
Irritation	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	irritation to the skin, eyes and respiratory tract may occur. 不适用				
致过敏 Sensitization					
	不适用				
Sensitization	不适用 Not Applicable				
Sensitization 影响神经系统	不适用 Not Applicable 不适用				
Sensitization 影响神经系统 Neurological Effects	不适用 Not Applicable 不适用 Not Applicable				
Sensitization 影响神经系统 Neurological Effects 致畸	不适用 Not Applicable 不适用 Not Applicable 不适用 不适用				
Sensitization 影响神经系统 Neurological Effects 致畸 Teratogenicity	不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable				
Sensitization 影响神经系统 Neurological Effects 致畸 Teratogenicity 再生毒性	不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable 不适用				
Sensitization 影响神经系统 Neurological Effects 致畸 Teratogenicity 再生毒性 Reproductive Toxicity	不适用 Not Applicable				
Sensitization 影响神经系统 Neurological Effects 致畸 Teratogenicity 再生毒性 Reproductive Toxicity 诱变(遗传效应)	不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable 不适用 Not Applicable 不适用				





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Materials					
		第十二部分-生态学资料			
Secti	Section 12- Ecological Information				
生态毒性	不适	.用			
Ecological Toxicity	Not	Applicable			
在土壤中的流动性	不适	:用			
Mobility in soil	Not	Applicable			
持久性和分解性	不适	:用			
Persistence and Degradability	Not	Applicable			
生物聚积	不适	· :用			
Bioaccumulation potential	Not	Applicable			
其他不利影响	不适	 :用			
Other Adverse Effects	Not Applicable				
第十三部分-废弃处置					
Section	n 1	3- Disposal Conside	rations		
产品废弃处理建议	游户业品工程社社社				
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	废弃处理必须根据当地法规 Disposal must be made according to official regulations				
recommendation					
		第十四部分-运输信息			
Section 14 - Transport Information					
运输标签	锂电池标签				
Label for conveyance		um Battery Label			
UN 编号 UN Number	UN 3480 UN 3480				
运输风险类别 Transport bazard class (as)	9				
Transport hazard class(es)					
包装等级 965 II					





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Packing group		
海洋污染物	无污染	
Marine pollutant	No	
联合国运输专用名称	锂离子电池(包括锂离子聚合物电池)	
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries)	
ICAO/IATA	可根据国际民用航空组织(ICAO), TI 或国际航空协会(IATA) DGR 65版本包装说明 965 第 IA 节规定进行空运	
	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 65 th Packing Instructions Section IA of 965 appropriately.	
IMDG CODE	《国际海运危险货物规则》(IMDG CODE)相关规定 IMDG CODE (Amdt 41-22) International Maritime Dangerous Goods Code IMDG CODE (Amdt 41-22)	
ADR	《国际危险货物道路运输欧洲协定》(ADR)相关规定 European Agreement concerning the International Carriage of Dangerous Goods by Road	
RID	《国际危险货物铁路运输欧洲协定》(RID)相关规定 Regulations concerning the International Carriage of Dangerous Goods by Rail	

危险品规例规定,运输前,每一个电池设计须通过联合国试验和标准手册38.3节所载的测试。

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.

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》





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《Classification and code of dangerous Goods》

《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)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》 (RCRA)

《国际危险货物道路运输欧洲协定》

《European Agreement concerning the International Carriage of Dangerous》

《国际危险货物铁路运输欧洲协定》

《Regulations concerning the International Carriage of Dangerous》

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

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.

-- End of Report ---- 报告结束 --

