

材 料 安 全 数 据 表 Material Safety Data Sheet

报告编号:

BCTC2412559288B

Report No:

委托单位:

徕芬 (深圳) 贸易有限公司

Applicant

Laifen (Shenzhen) Trading Co., Ltd.

产品名称:

可充电锂离子聚合物电池

Product Name:

Rechargeable Li-ion Polymer Battery

产品型号:

XD 901850-2S

Test Model:

2024-12-24

签 发 日 期: Issued Date:

(生效日期 Effective Date:2025-01-01)

编

制:

1-Jai Dian Lu

Prepared By:

批

准:

Approved By:

Andre Yn



深圳市倍测检测有限公司 Shenzhen BCTC Testing Co., Ltd.

编号/No.: BCTC/RF-BAT-007

页码/Page: 1 of 10

版本/Edition: A.5

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。

* 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.

revised as per client's request.				
第一部分-化学品及企业标识				
Section 1-Chemical Product and Company Identification				
产品名称	可充电锂离子聚合物电池			
Product Name	Rechargeable Li-ion Pol	Rechargeable Li-ion Polymer Battery		
型号 Model/Type Reference	XD 901850-2S			
商标	,			
Trademark	/			
额定参数 Ratings	7.6V, 900mAh, 6.84Wh			
重量	大约: 28.0g			
Weight	About: 28.0g			
制造商	东莞鑫电能源有限公司			
Manufacturer		POWER SOURCE CO., LTD		
制造商地址	广东省东莞市清溪镇三中		_	
Address		d, Sanzhong Village, Qingxi To	wn, Dongguan City,	
宁	Guangdong Province, C	nina		
应急电话 Emergency Telephone +86-13691913958				
	第二部分−成分信息 Section 2- Composition Information			
化学成分	CAS号	含量(%)	商业机密	
Chemical Composition	CAS No.	Weight (%)	Trade Secret	
钴酸锂 Cobalt lithium dioxide	12190-79-3	45.2851%	*	
聚偏氟乙烯树脂 Poly(vinylidene fluoride)	24937-79-9	0.5747%	*	
铝 Al	7429-90-5	5.3862%	***************************************	
石墨 Graphite	7782-42-5	23.8046%	<i>\\\\</i> !!!!!///	
羧甲基纤维素 Carboxymethyl cellulose sodium salt	9004-32-4	0.4287%		
乙烯基苯与1,3-丁二烯的聚合物 1,3 Butadiene/styrene copolymers	9003-55-8	1.1379%		
铜 Cu	7440-50-8	7.1839%	*****	
聚乙烯 Polyethylene	9002-88-4	1.4943%		
六氟磷酸锂 Lithium	21324-40-3	14.7046%		

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hexafluorophosphate(1-)			
碳酸二乙酯	105-58-8		*
Diethyl carbonate	100-00-0		
碳酸甲乙酯	623-53-0		*
Ethyl Methyl Carbonate	023-33-0		
碳酸亚乙烯酯	872-36-6		*
Vinylene carbonate	072-30-0		
尼龙	24937-16-4		*
Nylon	24337-10-4		
聚丙烯			
Polypropylene homopolymer	9003-07-0		*
(1-propylene)			
		的构成已经作为商业机密。	
" * " The exact perce	entage (concentration) of c	omposition has been withheld	as a trade secret.
第三部分-危险性概述			
Section 3- Hazards Identification			

·	Ash. A San All An MAR Feb Prince In	
│		
	Section 3- Hazards Identification	
紧急情况概述	不适用	
Emergency overview:	N/A	
GHS分类	不属于GHS危险物品	
Classification according to	Not a dangerous substance according to GHS	
GHS		
标签元素		
Label elements:		
危险标签图	不适用	
Hazard pictogram(s)	No available	
提示语	不适用	
Signal word	No available	
危险声明	不适用	

提示语	不适用			
Signal word	No available			
危险声明	不适用			
Hazard statement(s)	No available			
预防声明		3		
Precautionary statement(s):		4		1

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预防	不适用		i
Prevention	No available	N	ř
反应	不适用		
Response	No available		ý
处理	不适用		1
Disposal	No available		
环境危害	无相关信息		
Environmental hazards:	No relevant information		
重要症状	见第11部分更多信息		1
Important symptoms:	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,翻起上下眼脸,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.

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吸入	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。	
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.	
4BC 7	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。	
摄入	Give at least 2 glasses of milk or water. Induce vomiting unless patient is	
Ingestion	unconscious. Call a physician.	
	第五部分-消防措施	
	Section 5- Fire Fighting Measures	
	不适用	
Flash Point	N/A	
自燃温度	不适用	
Auto-Ignition Temperature	N/A	
灭火介质	水,二氧化碳	
Extinguishing Media	H ₂ O, CO ₂	
特殊灭火程序	点从	
Special Fire-Fighting	自给式呼吸器	
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	日电心泰路)及然的外現中的,女主國可能云打刀 Cell may vent when subjected to excessive heat-exposing battery contents	
Hazards	Centrally vent when subjected to excessive fleat-exposing battery contents	
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	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
Products		
	第六部分-泄露应急处理	
	Section 6- Accidental Release Measures	
	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	
个人预防措施、保护设备和应	他惰性物质来吸收,污染区域应该保持通风。	
急程序	If the battery is released, remove personnel from area until fumes dissipate.	
Personal precautions,	Provide maximum ventilation to clear out hazardous gases. The preferred	
protective equipment and	response is to leave the area and allow the vapors to dissipate, Avoid skin and	
emergency procedures	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.	
	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。	
环境预防措施	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.	
	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	
抑制和清理材料的方法 Methods and material for	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。	
containment and cleaning	If battery casing is dismantled, small amounts of electrolyte may leak. Collect all	
up	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	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。	
Other Precautions	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	
第八部分一接熈発刷和了作例か Section 8- Exposure Controls/Personal Protection		
0000	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		
Engineering Controls	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.	
	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。	
个人防护装备	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	
Personal Protective	眼镜。	
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.	
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.	
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.	
. =	第九部分-物理和化学特性	
S	ection 9- Physical and Chemical Properties	
形态	固体	
Form	Solid	
颜色	黑色	
Color	Black	

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危险反应的可能性

Reaction

Possibility of Hazardous

不适用

Not Available

BCT	C 倍测检测 报告编号/Report No.: BCTC2412559288B
气味	不适用
Odour	No available
酸碱度	不适用
pH	No available
熔点/凝固点	不适用
Melting point/freezing point	No available
沸点、沸点范围:	不适用
Boiling Point and Boiling	No available
range	
易燃度	不适用
Flash Point	No available
自燃或爆炸的上、下极限	不适用
Upper/lower flammability or	No available
explosive limits	
蒸汽压	不适用
Vapor Pressure	No available
蒸汽密度	不适用
Vapor Density	No available
相对密度	不适用
Relative density	No available
水溶性	不适用
Solubility in Water	No available
自燃温度	不适用
Auto-ignition temperature	No available
分解温度	不适用
Decomposition temperature	No available
蒸发速率	不适用
Evaporation rate	No available
易燃性(土壤、天然气)	不适用
Flammability (soil, gas)	No available
粘性	不适用
Viscosity	No available
	第十部分 稳定性和反应活性 Section 10- Stability and reactivity
	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 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.
不兼效的材料	氧化剂,酸,碱。
不兼容的材料	
Incompatible Materials	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.
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	第上,如八 丰田兴次 》	
第十一部分−毒理学资料 Section 11 – Toxicological Information		
	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。	
刺激		
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.	
** \- \- \- \- \- \- \- \- \- \- \- \- \-	不适用	
致过敏 Sensitization		
	Not Available	
影响神经系统	不适用	
Neurological Effects	Not Available	
致畸	不适用	
Teratogenicity	Not Available	
再生毒性	不适用	
Reproductive Toxicity	Not Available	
诱变(遗传效应)	不适用	
Mutagenicity (Genetic	Not Available	
Effects)	Not Available	
附带材料毒理性	不适用	
Toxicologically Synergistic Materials	Not Available	
Materiais		
	第十二部分-生态学资料	
el	Section 12- Ecological Information	
生态毒性	不适用	
Ecological Toxicity	Not Available	
在土壤中的流动性	不适用	
Mobility in soil	Not Available	
持久性和分解性	不适用	
Persistence and Degradability	Not Available	
生物聚积	不适用	
上物系依 Bioaccumulation potential	Not Available	
•	不适用	
其他不利影响 Other Adverse Effects	Not Available	
Other Adverse Lifects		
	第十三部分-废弃处置	
プロ欧大仏神寺 沙	Section 13- Disposal Considerations	
产品废弃处理建议 Product disposal	遵守当地、州和联邦法律和法规。	
Product disposal recommendation	Observe local, state and federal laws and regulations.	
包装处理建议	A A Diagram was to to be a large to the larg	
Packaging disposal	废弃处理必须根据当地法规	
recommendation	Disposal must be made according to official regulations	
	第十四部分-运输信息	
	Section 14 – Transport Information	
UN编号		
UN Number	UN 3480 or UN 3481	
联合国运输专用名称	PI965 Lithium ion Batteries	
UN Proper shipping name	1 1300 Ettinom for Datteries	

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	PI966 Lithium ion Batteries packed with equipments
	PI967 Lithium ion Batteries contained in equipments
包装说明	9
Packing Instructions	3
空运	IATA第66版DGR手册
Air	IATA DGR Manual 66 th
海运	海运危险货物规则(Amdt. 42-24)的特殊规定188
Sea	IMDG CODE (Amdt. 42-24) SP188
道路运输	国际危险货物道路运输协定
尼西亞側 Road	ADR - Agreement concerning the International Carriage of Dangerous Goods by
Noau	Road
 铁路运输	国际危险货物铁路运输协定
Railway	RID - Regulations concerning the International Carriage of Dangerous Goods by
Italiway	Rail

电池已通过 UN38.3 测试。

Battery are tested and has passed in accordance with UN38.3.

单独的锂离子电池在运输中应防止短路。他们应该在运输期间用坚固的包装来固定,确保货物不会倾斜,掉落和破损, 防止货物倒塌和被雨水浸湿。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

第十五部分 法规信息

Section 15- Regulatory 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 Title III (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)

第十六部分-其它信息

Section 16- Other Information

本份MSDS中的信息只是基于我们当前的所拥有的相关材料的信息而编制的,只是为了描述本品的健康、安全与环境需求,以使各有关方面能更好地了解和信任本产品。这些信息只是提供给您,以供考虑、研究和确认。其中的一些危害预防措施描述并非是唯一的。所以本份MSDS不能作为使用本品实现任何特定目的的保证。各有关使用者有责任预先完成本品的安全性及其他方面的测试,以评判其是否满足您的使用目的。

The information in this MSDS has only been compiled based on the information in the relevant materials currently in our possession and is intended only to describe the health, safety and environmental requirements of this product so that all interested parties can better understand and trust this product. This information is provided to you only for your consideration, research and confirmation. Some of the harm prevention measures described are not unique.

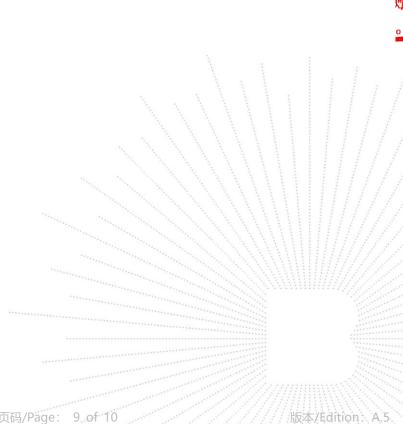
刺林





Therefore, this MSDS is not a guarantee that this product will be used for any particular purpose. It is the responsibility of the user concerned to complete the safety and other aspects of the product in advance to determine whether it meets your purpose of use.





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声明 STATEMENT

1. 本次检测所用的测量设备的量值均可以溯源到国家计量标准。

The equipment lists are traceable to the national reference standards.

2. 检测报告未经本实验室书面批准,不得部分复制。

The test report can not be partially copied unless prior written approval is issued from our lab.

3. 报告未加盖"检测专用章"无效。

The test report is invalid without stamp of laboratory.

4. 报告无检测、批准人员签字无效。

The test report is invalid without signature of person(s) testing and authorizing.

5. 本次检测的结果仅对所检测样品有效。

The test process and test result is only related to the Unit Under Test.

6. 样品的相关信息由委托单位提供,实验室不对其真实性负责。

Sample information is provided by the customer and the laboratory is not responsible for its authenticity.

7. 无CMA标志的报告,仅供科研、教学、企业产品研发及内部质量控制目的用。

Reports without CMA mark are only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. 本实验室的质量体系符合ISO/IEC17025标准的要求。

The quality system of our laboratory is in accordance with ISO/IEC17025.

9. 如对本报告有异议,可在收到报告后15 天内向本单位申诉,逾期不予受理。

If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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