# 材料安全数据表

## MATERIAL SAFETY DATA SHEET

Prepared For

: Earfun Technology (HK) Limited

申请商

麗耳科技(香港)有限公司

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C栋301

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Written by:

Surie Zhang

Approved by:

(制作)

(批准)



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REPORT NO.: A01094089SE

<sup>\*</sup> 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。

	全数据表是根据客户提供的信息		or this MSDS are revised as per E求来修订。
Section	1-Chemical Produc 第一部分-化学	t and Company Ide 学品及企业标识	entification
Product Name 产品名称	Rechargeable Li-ion Battery 可充电锂离子电池		
Model 型号	803035		
Trade Mark 商标	N/A		
Ratings 额定参数	3.7V, 800mAh, 2.96Wh		
Weight 重量	15.8g		
Manufacturer 制造商	Dongguan Sunly Battery Technology CO., LTD 东莞山锂电池科技有限公司		
Manufacturer Address 制造商地址	Building 30th,Xin Tai Yang Industrial City, No.8, Xinyang Road, Lin Cun Community, Tangxia Town, Dongguan City, Guangdong Province, China 东莞市塘厦镇林村社区新阳路8号新太阳工业城第30座		
Emergency Telephone 应急电话	0769-87285025		
Fax 传真	0769-87285586		
	-	osition Information }-成分信息	
Chemical Composition 化学成分	Chemical Formula 化学式	CAS No. CAS号	Weight (%) 重量含量(%)
Lithium cobaltate 钴酸锂	LiCoO <sub>2</sub>	12190-79-3	40
Graphite 石墨	C <sub>24</sub> X <sub>12</sub>	7782-42-5	19
Phosphate(1-), hexafluoro-, lithium 六氟磷酸锂	LiPF <sub>6</sub>	21324-40-3	21.4
Copper 铜箔	Cu	7440-50-8	10.6

7429-90-5

7440-02-0

24937-79-9

61789-96-6

Αl

Ni

C2H2F2

C36H42X2

Aluminium

铝箔 Nickel

镍 聚偏氟乙烯 Polyvinylidene

Fluoride (PVDF) 丁苯橡胶

Styrene Butadiene

Rubber (SBR)

5.8

0.4

8.0

1.2

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羧甲基纤维素 Carboxymethylcellulose	C6H12O6		9000-11-7	0.3	
其他/ Other	1		1	0.5	
Section 3- Hazards Identification 第三部分-危险性概述					
Emergency overview N/A 大学田					
			substance according to GHS		
Label elements:					
标签元素 Hazard pictogram(s)		Not Applicable			
危险标签图		不适用			
Signal word		Not Applicable			
提示语		不适用			
Hazard statement(s) 危险声明		Not Applicable 不适用			
Precautionary statemen	t(s):	1 10/11			
预防声明					
Prevention		Not Applicable			
预防		不适用			
Response 反应		Not Applicable 不适用			
Disposal 废弃处理	oosal Not Applicat				
			No relevant information		
环境危害		无相关信息 See section 11 for more information			
Important symptoms: 重要症状		D.第11部分更多信息			
	Se		st Aid Measures -急救措施		
Eye contact 眼睛接触		Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. 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。			
Skin contact for 15		for 15 minutes. Ge 万一接触,用大量 医。	的水冲洗至少15分钟,同时除	去污染的衣物和鞋子,迅速就	
ти аvailable.		osure and move to fresh air in 空气清新处,如果呼吸困难给			
Give at least 2 glast unconscious. Call			vomiting unless patient is 取催吐的方法,并且立即就医。		

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	NEFORT NO.: A01094089SE	
Section 5- Fire Fighting Measures 第五部分-消防措施		
Flash Point	N/A	
燃点	不适用	
Auto-Ignition Temperature	N/A	
自燃温度	不适用	
Extinguishing Media	H <sub>2</sub> O, CO <sub>2</sub>	
灭火介质	水,二氧化碳	
Special Fire-Fighting Procedures	Self-contained breathing apparatus	
特殊灭火程序	自给式呼吸器	
Unusual Fire and Explosion Hazards 异常火灾或爆炸	Cell may vent when subjected to excessive heat-exposing battery contents 当电芯暴露于过热的环境中时,安全阀可能会打开	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
燃烧产生的危险物品	一氧化碳,二氧化碳,锂氧化物烟气	

## **Section 6- Accidental Release Measures**

第六部分-泄露应急处理

## 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.

## 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。

#### **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.

## 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。

## 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.

#### 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。

## **Section 7- Handling and Storage**

第七部分-操作处置和储存

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	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
Handling	over-discharge, throw to fire.
操作处置	Do not crush or puncture the battery, or immerse in liquids.
	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
	<b>製或泄露等事故。</b>
	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。
	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.
Storage	Do not place the battery near heating equipment, nor expose to direct
储存	sunlight for long periods.
阳行	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。
	The battery may explode or cause burns, if disassembled, crushed or
Other Precautions	exposed to fire or high temperatures. Do not short or install with incorrect polarity.
其他要注意的防范措施	
) (   E ) (   E   E   E   E   E   E   E   E   E	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。
Section 0 E	ivnocure Controle/Doroonal Protection
Section 8- E	xposure Controls/Personal Protection 第八部分-接触控制和个体防护
	第八部分-接触控制和个体防护 Use local exhaust ventilation or other engineering controls to control sources
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Engineering Controls 设计控制  Personal Protective Equipment 个人防护装备	第八部分-接触控制和个体防护 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. 设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 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. 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。 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。
Engineering Controls 设计控制  Personal Protective Equipment 个人防护装备  Other Protective Equipment 其它防护装备	第八部分-接触控制和个体防护 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. 设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 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. 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。 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上安全眼镜。 Have a safety shower and eye wash fountain readily available in the immediate work area. 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。
Engineering Controls 设计控制  Personal Protective Equipment 个人防护装备  Other Protective Equipment	第八部分-接触控制和个体防护 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. 设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 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. 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。 皮肤和身体防护: 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。 Have a safety shower and eye wash fountain readily available in the immediate work area.

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Section 9- Physical and Chemical Properties 第九部分-物理和化学特性		
Form	Solid	
形态	固体	
Color	Silver	
颜色	银色	
Odour	Not Applicable	
气味	不适用	
<b>pH</b> 酸碱度	Not Applicable 不适用	
Melting point/freezing point	Not Applicable	
熔点/凝固点	Not Applicable	
Boiling Point and Boiling range	Not Applicable	
沸点、沸点范围:	不适用	
Flash Point	Not Applicable	
易燃度	不适用	
Upper/lower flammability or		
explosive limits	Not Applicable  不适用	
自燃或爆炸的上、下极限	个适用 	
Vapor Pressure	Not Applicable	
蒸汽压	不适用	
Vapor Density	Not Applicable	
蒸汽密度	不适用	
Relative density	Not Applicable	
相对密度	不适用	
Solubility in Water	Not Applicable	
水溶性	不适用	
Auto-ignition temperature	Not Applicable	
自燃温度	不适用	
Decomposition temperature	Not Applicable	
分解温度	不适用	
Evaporation rate	Not Applicable	
蒸发速率	不适用	
Flammability (soil, gas)	Not Applicable	
易燃性(土壤、天然气)	不适用	
Viscosity	Not Applicable	
粘性	不适用	
Section 10- Stability and reactivity 第十部分 稳定性和反应活性		
<b>Stability</b> 稳定性	The product is stable under conditions described Section 7 产品在第七部分所述的条件下稳定	
Conditions to Avoid 应避免的条件	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 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。	

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Incompatible Materials	Oxidizing agents, acid, base.
不兼容的材料	氧化剂,酸,碱。
Hazardous Decomposition Products 危险分解物	Carbon monoxide, carbon dioxide, lithium oxide fumes. 一氧化碳、二氧化碳、氧化锂烟雾。
Possibility of Hazardous Reaction 危险反应的可能性	Not Applicable 不适用
Section	on 11 – Toxicological Information 第十一部分-毒理学资料
Irritation 刺激	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. 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。
Sensitization	Not Applicable
致过敏	不适用
Neurological Effects	Not Applicable
影响神经系统	不适用
Teratogenicity	Not Applicable
致畸	不适用
Reproductive Toxicity	Not Applicable
再生毒性	不适用
Mutagenicity (Genetic Effects)	Not Applicable
诱变(遗传效应)	不适用
Toxicologically Synergistic Materials 附带材料毒理性	Not Applicable 不适用
Sec	tion 12- Ecological Information 第十二部分-生态学资料
Ecological Toxicity	Not Applicable
生态毒性	不适用
Mobility in soil	Not Applicable
在土壤中的流动性	不适用
Persistence and Degradability	Not Applicable
持久性和分解性	不适用
Bioaccumulation potential	Not Applicable
生物聚积	不适用
Other Adverse Effects	Not Applicable
其他不利影响	不适用
Section 13- Disposal Considerations 第十三部分-废弃处置	

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Product disposal recommendation	Observe local, state and federal laws and regulations. 遵守当地、州和联邦法律和法规。	
产品废弃处理建议		
Packaging disposal recommendation 包装处理建议	Disposal must be made according to official regulations 废弃处理必须根据当地法规	
Sec	tion 14 – Transport Information 第十四部分-运输信息	
Label for conveyance 运输标签	Lithium Battery Label 锂电池标签	
UN Number UN编号	UN 3480 or UN 3481 UN 3480 或 UN 3481	
Transport hazard class(es) 运输风险类别	9	
Packing group 包装等级	N/A 不适用	
Marine pollutant 海洋污染物	No 无污染	
UN Proper shipping name 联合国运输专用名称	Lithium ion Batteries (Including lithium ion polymer batteries) 锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) 锂离子电池和设备包装在一起(包括锂离子聚合物电池) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries) 设备里内含锂离子电池(包括锂离子聚合物电池)	
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 65 <sup>th</sup> Packing Instructions Section IB of 965 or Section II of 966~967 appropriately. 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IB节规定或966~967第II节规定进行空运	
IMDG CODE	International Maritime Dangerous Goods Code under Special Provision 188 IMDG CODE (Amdt 41-22) 《国际海运危险货物规则》特殊规定 188 IMDG CODE (Amdt 41-22)	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188 《国际危险货物道路运输欧洲协定》(ADR)根据特殊规定 188	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail under Special Provision 188 《国际危险货物铁路运输欧洲协定》(RID)根据特殊规定 188	

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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.

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。

## **Section 15- Regulatory information**

第十五部分 法规信息

#### Law information

#### 法律信息

《Dangerous Goods Regulations》

《危险物品规则》

《Recommendation on the Transport of Dangerous Goods Model Regulations》

《对危险货物运输的有关规定的建议》

《International Maritime Dangerous Goods》

《国际海运危险货物规则》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险品安全运输技术指令》

《Classification and code of dangerous Goods》

《危险货物分类和品名编号》

《Consumer Product Safety Act》(CPSA)

《消费产品安全法》

《Federal Environmental Pollution Control Act》(FEPCA)

《联邦环境污染控制法》

《Resource Conservation and Recovery Act》(RCRA)

《资源保护及恢复法案》

《European Agreement concerning the International Carriage of Dangerous》

《国际危险货物道路运输欧洲协定》

《Regulations concerning the International Carriage of Dangerous》

《国际危险货物铁路运输欧洲协定》

In according with all Federal, State and local laws.

根据所有联邦、州和地方法律。

## **Section 16- Other Information**

第十六部分-其它信息

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.

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。

-- End of Report --

-- 报告结束 --