Materia	Safety	Data	Sheet
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Page 1

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MSDS 报告

MSDS Report

Prepared For: 申请商:	
Address: 地址:	
Product Name: 产品名称:	Lithium-ion battery 锂离子电池
Model: 型号:	BATTERY-LI-4S-18AH-R1
Nominal Voltage: 额定电压:	14.8V
Rated Capacity: 额定容量:	18000mAh, 266Wh
Weight: 重量:	1154.4g
Dimension : 尺寸:	142.5mm×74.5mm×70.0mm (L×W×T)
Prepared By : 编制单位:	Shenzhen TCT Testing Technology Co., Ltd.深圳市通测检测技术有限公司1F, Building 1, Yibaolai Industrial Park, Qiaotou Village, Fuyong Town, Baoan District, Shenzhen, Guangdong, China广东省深圳市宝安区福永桥头亿宝来工业城1栋1楼
Report No.: X生物 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化	TCT170412M016
Nritten by 编写: <u>了</u> 炙	Carry Wang Approved by 批准: 法国际公司
Nritten by 编写: <u>了</u> 义 nspected by 审核: <u></u>	图 推 Zwan-Chen Date 日期:

Report No.报告编号: TCT170412M016 This report shall not be reproduced expent in full without the written approval of Shenzhen TCT Testing Technology Co.

Materia	I Safety Data Shee	t 化学品安全技	术说明书
Section 1- Chem	nical Product & Company	dentification	
第一部分 化学品	及企业标识		
Product Name: 产品名称:	Lithium-ion battery 锂离子电池		
Manufacture: <i>制造商</i> :			
Address: 地址:	<u>e</u>		
Contact Person:			-
Contact Person: 联系人:			
Tel:			
电话:			-
Fax:			
传真:			_
Emergency Tel: 应急电话:			_
E-mail: 邮箱:			
Item Code: 项目号:	TCT170412M016		
Section 2- Haza			
第二部分 危险性	E概述 See section 14		
Classification of Danger	见第十四部分。		
危险性类别			
Primary Route(s) of Exposure 浸入途径	Eye, skin contact, ingestion 眼睛,皮肤,食入。		
Health Hazard 健康危害	The batteries are not hazardous manufacturer under normal conc heat, leakage of internal compon but not limited to the following ca fire, whacked with hard object, p 正常条件下根据制造商的说明使 火灾、热、内部成分的漏出的风	litions. In case of abuse, the ents, with could cause casu uses: charged for long time	ere's risk of rupture, fire, alty loss. Abuses include short circuited, put into

第三部分 成分/组成信息 Chemical Name 化学名称 Concentration or concentration ranges (%) 水皮或浓度范围(%) CAS Number CAS U(中文旗索引登记号) Lthium Cobalt Oxide Lthium Cobalt Oxide Science Chemical Abstrat Service Registry Number. Has CAS Display Lthere are required. Tagg& R789 和以验证 NA = A 远用. Section 4 - First Aid Measures 第UP 部分 急救措施 Eye Rthin Contentional Abstrat Service Registry Number. Hyber Display Lthium Set There are required. Rthin Display Lthium Set There are required. Rthin Display Lthium Set There are required. Section 4 - First Aid Measures 第UP 部分 急救措施 Eye Rthin Contentional Abstrat Service Registry Number. Lthium Set There and Lthium Set There are an equired. Skin Remove contaminated clothes and rinse skin with plenty of water or shower for 11 minutes. Cet medical aid. The Like. III Lthink Athit 20 15 分钟, 翻起 LTF 眼睑, 直到化学的成唱 Kin Minutes. Cet medical aid. The Like. III Lthink Athit 20 15 分钟, Implify Lipshify Athit 20 15 分钟, Implify Lipshify Athit 20 20 Xiga Lipshify Athit 20 20 Xiga Athit 20 20 Xiga Lipshify Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 20 Xiga Xiga Xiga Athit 20 Xiga Xiga Xiga Athit 20 Xiga Xiga Athit 20 Xiga Xiga Athit 20 Xiga Xiga Athit 20 Xiga Xiga Athi		•	Information on Ingredients	3
品酸锂 15:40 12190-79-3 Graphite 10-30 7782-42-5 Orbosphate(1-), hexafluoro-, lithium 10-30 21324-40-3 Assingtiget 10-30 21324-40-3 Copper 7-13 7440-50-8 Aluminum foil 5-10 7420-90-5 Strickel 1-5 7440-02-0 VC 1-2 9002-86-2 Sabeling according to EC directives. Ke Alum for the schemical Abstract Service Registry Number. 本意: CAS 5 2.42 ± 3	Chemical Name		Concentration or concentration ranges (%)	
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Report No.: TCT170412M016 Hotline: 400-6611-140 Tel: 86-755- 27673339 Page 3 of 12 http://www.tct-lab.com Fax: 86-755-27673332

	GENTRE TECHNOLOGY	Material Safety Data Shee
Section 5- Fire F 第五部分 消防措	ighting Measures 施	
Characteristics of Hazard 危险特性		ors may evolve on burning. 气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物 品	Carbon monoxide, carbon 一氧化碳,二氧化碳,锂氧	dioxide, lithium oxide fumes. 氧化物烟气
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂		on fire extinguisher. May use dry powder, sand, earth. 更使用卤化物灭火器。可使用干粉、沙、土。
Attention in Fire-extinguishing <i>灭火注意事项</i>	The Firemen should put ou 消防人员须佩戴防毒面具、	n antigas masks and full fire-fighting suits. 穿全身消防服。
	(C)	
Section 6- Accide 第六部分 泄露应	ental Release Meas	ures
Personal Precautio	ns, protective pergency procedures	Restrict access to area until completion of clean-up Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8. 限制区域,直到完成清理工作。请勿触摸泄漏的材料 穿戴适当的个人防护设备,如第8部分所示
Environmental Pred 环境保护措施	cautions	Prevent material from contaminating soil and from entering sewers or waterways. 防止物质污染土壤和进入下水道或水道。
Methods and mater 方法和材料控制	rials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.出于安全,阻止泄漏,可以用干砂或沙土来遏制液泄露,立即清理泄漏。
Methods and mater 清理的方法和材料	rials for cleaning up	Absorb spilled material with an inert absorbent (dr. sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. 用惰性吸收剂(干砂或沙土)吸收溢出的材料。污染;

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FCT通测检测 TESTING CENTRE TECHNOLOGY Material Safety Data Sheet Section 7- Handling and Storage 第七部分 操作处置与储存 Don't handing the batteries in manner that allows Handling terminals to short circuit 操作 不要以让接头短路的方式对电池进行操作。 Store and used far away from heat, sparks, open flame, or other heat ignition sources, and under room Storage temperature(<30°C) in ventilating and dehumidifying environments. 储存 储存和使用时,要远离热、火花、明火或其他点源热, 并处于室温下(<30℃)通风和除湿环境。 The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect Other Precautions polarity. 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。禁止短接或将电池正负极错误的安 装在设备中。 Section 8 - Exposure Controls/Personal Protection 第八部分 接触控制和个体防护 No engineering controls are required for handling batteries that have not been damaged. Personal Engineering Controls protective equipments for damaged batteries should include chemical resistant gloves and safety glasses. 工程控制 操作未破损的电池,没有工程控制要求。对于破损的电 池,个人防护用品应包括化学品防护手套和安全眼镜。 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. Not necessary under conditions of normal use. 呼吸保护: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。正常使用 条件下不必考虑。 Personal Protective Equipment Protective Gloves: Not necessary under conditions of 个人防护设备 normal use. 防护手套:正常使用条件下不必考虑。 Other Protective Clothing or Equipment: Not necessary under conditions of normal use. 其他防护服装或设备:正常使用条件下不必考虑。 Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields. 电池开阀试验时应做好个人防护:呼吸防护,防护手套, 防护服装和有护边的安全玻璃罩都是要准备的。

Material Safety Data Sheet

	Appearance: Square 外形:方形		
Physical State 物理状态	Color: Black 颜色:黑色		
	Odour: If leaking, smells 气味:泄漏时,有醚的气		
Change in condit 变化的条件:	ion		
pH 酸碱度	Not applicable as supplie 不适用	ed.	
Flash Point 闪点	Not applicable unless ind 针对单个组分暴露情况,	dividual components exp 其他不适用。	osed.
Flammability 易燃度	Not applicable unless ind 针对单个组分暴露情况,	dividual components exp 其他不适用。	osed.
Relative density: 相对密度	Not applicable unless ind 针对单个组分暴露情况,	dividual components exp 其他不适用。	osed.
Solubility (water) 溶解性(水溶性)	Not applicable unless ind 针对单个组分暴露情况,	dividual components exp 其他不适用。	osed.
Solubility (other) 溶解性(其他)	Not applicable unless ind 针对单个组分暴露情况,	dividual components exp 其他不适用。	osed.
Section 10 – S 第十部分 稳定	tability and Reactivit 性和反应性	у	
Stability 稳定性		Stable under norm 常温常压下稳定。	al temperatures and pressures.
Conditions to Avo 应避免的条件	oid (C)	Crush. Disassemb Expose over a long 加热 70°C 以上或	or incinerate. Deform. Mutilate. le. Overcharge. Short circuit. g period to humid conditions. 焚烧、变形、毁坏、粉碎、拆卸、 时间暴露在潮湿的条件下。
Hazardous Decol 有危害分解物	mposition Products	Toxic Fumes , and 有毒烟雾,并可能	I may form peroxides. 形成过氧化物。
lf leaked, forbidden t hydrocarbons.	o contact with strong oxidize	ers, mineral acids, strong	alkalies, halogenated
如果发生泄露,避免	与强氧化剂,无机酸,强碱,	卤代烃接触。	

TCT通测检测 TESTING CENTRE TECHNOLOGY

Section 11 – Toxicological Information 第十一部分 毒理学信息	n
Irritation 刺激	In the event of exposure to internal contents, vapou fumes may be very irritating to the eyes and skin. 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。
Sensitization 致敏	Not Available 无适用
Reproductive Toxicity 再生毒性	Not Available 无适用
Toxicologically Synergistic Materials 协同材料毒理学	Not Available 无适用
Section 12-Ecological Information	
第十二部分 生态学信息	Do not allow undiluted product or large quantities of
General note: 通用信息 :	Do not allow undiluted product or large quantities of to reach ground water, water course or sewage system. 不允许未稀释或大量的产品到达地下水、水道或污水 统。
Anticipated behavior of a chemical product n environment/possible environmental mpact/ ecotoxicity	Not Available 不适用
化学产品在环境/可能的环境预期的行为的- 种生态毒性	
Section 13 – Disposal Considerations 第十三部分 废弃处置	•
Vaste Treatment 废弃处置方法	Recycle or dispose of in accordance with government, stat & local regulations. 建议遵照国家和地方法规处置或再利用。
Attention for Waste Treatment 废弃注意事项	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushe or treated similarly. Best way is recycling. 废电池不能被当做普通垃圾。不能扔进火中或置于高
	度电池不能极当做音通垃圾。不能扔进久中或直于高下。不能解体,刺穿,破碎或类似的处理。最好的办 是回收利用。

TCT通测检测 TESTING CENTRE TECHNOL Material Safety Data Sheet Section 14 – Transport Information 第十四部分 运输信息 Transport information: 运输信息: The goods can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IA, PI966 Section I and PI967 Section I appropriate of IATA DGR 58th (2017 Edition) for transportation. 货物可根据民用航空组织(ICAO), TI 或国际航空协会(IATA), DGR 58th(2017 年版)包装说明(PI) 965 Section IA, PI 966 Section I, 和 PI 967 Section I 相关规定。 Marine transport must comply with the requirements of the IMDG CODE (Amdt. 38-16) 2016 Edition Regulations. 海运必须符合 IMDG CODE (Amdt. 38-16) 2016 版规定。 Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185. 美国运输部(DOT)有害物质规则C分章中的其他规定,运输符合要求49CFR173.185。 Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. 电池在单独运输时,应包装牢固,防止短路。 More information concerning shipping, testing, marking and packaging can be obtained from label master at http://www.labelmaster.com/. 更多关于航运、测试、标记和包装的信息可以从 http://www.labelmaster.com/获得。 The following information is provided for domestic and international transportation: 以下为国内和国际规定的运输信息: Air transport ICAO-TI and IATA-DGR: 航空运输ICAO-TI and IATA-DGR: UN Number:

联合国货物编号(UN 编号):	3480 or 3481		
Label:	Class 9		
标签:	9类		
Packaging group:			
包装类别: 〇			
Marine pollutant(Y/N):	Ň		
海洋污染(是/否):	否		
UN Proper shipping name: 联合国运输专用名称:	Lithium ion Batteries (limited to a maximum of 30% SoC); 锂离子电池(荷电状态不得超过其额 定容量的 30%); Lithium ion Batteries contained in equipments or Lithium ion Batteries packed with equipment (Including lithium ion polymer	9	
	batteries) 与设备一起包装的锂离子电池或包 含在设备中的锂离子电池(包括锂离 子聚合物电池)		G

TCT通测检 TESTING CENTRE TECH	INDLOGY	Material Safety Data	Sheet
Marine transport IMDG: 海上运输IMDG:			
MDG Class: MDG 等级:	9		
UN number: 联合国货物编号(UN 编号):	3480 or 3481		
_abel: 标签:	Class 9 9 类		
Packaging group: 包装类别:	-		
EMS Number:	F-A, S-I		
Marine pollutant(Y/N): 每洋污染(是/否) :	Y 是		
Special provision: 特殊条款 :	230		7
UN Proper shipping name: 联合国运输专用名称:	Lithium ion Batteries (limited to a maximum of 30% SoC); 锂离子电池(荷电状态不得超过其额 定容量的 30%); Lithium ion Batteries contained in equipments or Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) 与设备一起包装的锂离子电池或包 含在设备中的锂离子电池(包括锂离 子聚合物电池)		(
DOT regulations: 美国交通部条例:			
UN Classification (Transport Hazard class): 运输风险级别:	9		
UN number: 联合国货物编号(UN编号):	3480 or 3481		>
Packing group: 包装类别:	-	9	
UN Proper shipping name: 联合国运输专用名称:	Lithium ion Batteries (limited to a maximum of 30% SoC); 锂离子电池(荷电状态不得超过其额 定容量的 30%); Lithium ion Batteries contained in equipments or Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries)		
	与设备一起包装的锂离子电池或包 含在设备中的锂离子电池(包括锂离 子聚合物电池)		

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		Material Safety D	
Marine pollutant(Y/N): 每洋污染(是/否):	Y 是		
母年行来(定/否): _abel:	正 Class 9		
-abel. 示签:	9类		
Land transport ADR/RID:			
陆地运输ADR/RID:		G	
ADR/RID class: ADR/RID 等级:	9		
Danger code:	9		
 危险等级:	ů –		
JN number: 联合国货物编号(UN编号):	3480 or 3481		
Packaging group:			
包装类别:			
Marine pollutant(Y/N):	\mathbf{N}		
每洋污染(是/否):	否		
_abel:	Class 9		
示签:	9类		//
	Lithium ion Batteries (limited to a maximum of 30% SoC) ;	9	
	锂离子电池(荷电状态不得超过其额	V	
	定容量的 30%); Lithium ion Batteries contained in		
Description of goods:	equipments or Lithium ion		
货物名称:	Batteries packed with equipment		
	(Including lithium ion polymer batteries)		
	子聚合物电池)		
	batteries) 与设备一起包装的锂离子电池或包 含在设备中的锂离子电池(包括锂离 子聚合物电池)		
Section 15 – Regulatory 第十五部分 法规信息	'Information		
Law information			_
法律信息			
《Dangerous Goods Regulatio			
《危险物品规则》			
	ransport of Dangerous Goods Model Regu	ulations》	
《危险货物运输的建议模型规》	定》		
«International Maritime Dang	erous Goods》		
《国际海上危险货物运输》			
	e Safe Transport of Dangerous Goods》		
《危险货物安全运输技术指南》			





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

MSDS creation date: 2017/04 Version: 1.0

Sample photo 样品照片:



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^{******}End of report^{******} ******报告结束*****

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