Material Safety Data Sheet

MSDS Report

TCT通测检测 TESTING CENTRE TECHNOLOGY

MSDS 报告

Applicant's Name 委托方名称	YJ Power Group Limited 广东言九电子股份有限公司
Applicant's Address 委托方地址	Room 101, Block 1, No. 35 Fuxing Road, Chang'an Town, Dongguan City, Guangdong, China 广东省东莞市长安镇复兴路 35 号 1 号楼 101 室
Name of Sample 样品名称	Li-ion Cylinder Cell 锂离子圆柱电芯
Model 型号	QW21700
Nominal Voltage 标称电压	3.7V
Rated Capacity 额定容量	4000mAh, 14.8Wh
Weight 重量	69.8g
Size 尺寸 (L×W×T)	(21.6×72.0)mm
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 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China 广东省深圳市宝安区福海街道桥头社区稔山工业区振昌胶粘制品厂 2101、 2201
Report No. 报告编号	TCT241114M085
Nonne Vritten by 编写:	jia 贾青 Approved by 批准: Zvon Chen 正弦
nspected by 审核: Cherry	Hung 黄纸 技 Effective Date 生效日期: _2025.01.04 TCT
eport No. TCT241114M085 otline: 400-6611-140	Page 1 of 1 E-mail: service@tct-lab.com http://www.tct-lab.com



Material Safety Data Sheet 化学品安全技术说明书

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample 样品名称	Li-ion Cylinder Cel 锂离子圆柱电芯			
Manufacturer's Nar <i>生产单位名称</i>	ne DONGGUAN YD E 东莞市言顶新能源	ENERGY CO., LTD 有限公司	- C	
Manufacturer's Address	35 Fuxing Road, X Guangdong China	iagang Community, Chang	gan Town, Dongguan,	523000,
生产单位地址	广东省东莞市长安	真厦岗社区复兴路 35 号		
Tel 电话	+86-769-81158580		A.C.	5
Emergency Tel 应急电话	+86-769-81158580)		
E-mail 邮箱	tina@yjbattery.con			
危险性类别 Primary Route(s) of Exposure 浸入途径	Eye, skin contact, inges 眼睛,皮肤接触,摄入。	tion.		(
<u>浸入途径</u> Health Hazard 健康危害	manufacturer under norn fire, heat, leakage of inte including but not limited put into fire, whacked wi broken. 正常条件下根据制造商的 起火、发烫、内部成分剂	zardous when used accord mal conditions. In case of a ernal components, which c to the following cases: cha th hard object, punctured 的说明使用电池不会产生危 遗漏的危险,并可能造成意 E电、短路、投入火中、硬	abuse, there's Hazard could cause casualty lo arged for long time, sh with acute object, crus 害。使用不当的情况下 外损失。使用不当的行	of rupture, bss. Abuses fort circuited, shed, and , 有破裂、 为包括但不
Ś				

•	on/Information on I	Ingredients	
第三部分 成分/组成信 Chemical Name 化学名称	国	ranges (%)	CAS Number CAS 号(化学文摘索引登记号)
LiCoO2 钻酸锂	41.781	Ś	12190-79-3
Acetylene Black 炭黑	2.515		1333-86-4
(CH ₂ CF ₂) n 聚偏氟乙烯	1.988		24937-79-9
C 石墨	19.240		7782-42-5
CMC 羧甲基纤维素	1.208	Ś	9000-11-7
SBR 丁苯橡胶	1.081	<u>k</u>	9003-55-8
	4.451)	7429-90-5
Cu	8.415		7440-50-8
铜 LiPF6 六氟磷酸锂	19.321	(C)	21324-40-3
Labeling according to EC directiv 标签根据 EC 指令。 No symbol and Hazard phrase ar 不需要象形符号和危险短语。 Note: CAS number is Chemical A 注意: CAS 号是化学文摘服务注册 N/A=Not apply. N / A =不适用。	re required. Abstract Service Registry Nur 计号码。	mber.	
Section 4- First Aid M	easures		
第四部分 急救措施			minutes, occasionally lifting the upper
Eye Flus 思晴 万一	lower eyelids. Get medica 接触,立即用大量的清水/ 为止,迅速就医。		,翻起上下眼睑,直到化学的残留物
Eye Flus and 万一 消失 Skin Rem minu	接触,立即用大量的清水浴为止,迅速就医。 nove contaminated clothes ites. Get medical aid.	冲洗至少 15 分钟 s and rinse skin v	,翻起上下眼睑,直到化学的残留物 with plenty of water or shower for 15 去污染的衣物和鞋子,迅速就医。

Ingestion	Ingesting damaged batt		duce vomiting or give fo	od or drink. Seek
食入	medical attention immediated attention attention attention attention attention attention att		下食物戓喝饮料, 立刻扇	北 医。
/		EETT-LAU-0		0
Section 5- Fire F 第五部分 消防措	ighting Measures 施			
Characteristics of Hazard 危险特性	Dusts at sufficient conc generates toxic fumes. 高密度粉尘遇空气会形			with air. Combustion
Hazardous Combustion Products 燃烧产生的危险物 品	Carbon dioxide. 二氧化碳。			
Fire-extinguishing Methods and Extinguishing Media	For small fires, use wate 对于小型火险,可使用z			
灭火方法及灭火剂	G			(
Fire-extinguishing		t) and full protee	-	
Section 6- Accide	因为压强关系,要穿戴可以及佩戴全套防护装置。 ental Release Mea	可呼吸式全身防	-	(经认证或等效的),
<i>灭火注意事项</i> Section 6- Accide 第六部分 泄露应	以及佩戴全套防护装置。 ental Release Mea	可呼吸式全身防 ISUITES	护装备,MSHA/NIOSH	
Section 6- Accide 第六部分 泄露应 Personal Precaution	以及佩戴全套防护装置。 ental Release Mea 急处理 ns, protective ergency procedures	可呼吸式全身防 ISUITES In case of Avoid co adequate equipme areas. Ko spill/leak Sections 万一破裂 衣服。确 人员撤离	护装备, MSHA/NIOSH of rupture. Attention! Co ntact with skin, eyes an e ventilation. Use perso nt as required. Evacuat eep people away from a . Refer to protective me 7 and 8. . 注意! 腐蚀性物质。 保空气流通。根据需要f 到安全区域。让人们远	rrosive material. d clothing. Ensure nal protective e personnel to safe and upwind of asures listed in 避免接触皮肤, 眼睛或 吏用个人防护装备。将 离溢出/泄漏处和处于
Section 6- Accide 第六部分 泄露应 Personal Precaution equipment, and em	以及佩戴全套防护装置。 ental Release Mea 急处理 ns, protective ergency procedures 户装备和应急程序	TIFW吸式全身防 ISUITES In case of Avoid co adequate equipme areas. Ku spill/leak Sections 万一破裂 衣服。确 人员撤离 逆风。参 Prevent entering 防止产品	护装备, MSHA/NIOSH of rupture. Attention! Co ntact with skin, eyes an e ventilation. Use perso nt as required. Evacuat eep people away from a . Refer to protective me 7 and 8. . 注意! 腐蚀性物质。 保空气流通。根据需要f 到安全区域。让人们远 考第七部分和第八部分 product from contamina sewers or waterways. 污染土壤和进入下水道.	rrosive material. d clothing. Ensure nal protective e personnel to safe and upwind of asures listed in 避免接触皮肤, 眼睛或 使用个人防护装备。将 离溢出/泄漏处和处于 中列出的防护措施。 ting soil and from 或水道。
Section 6- Accide 第六部分 泄露应 Personal Precaution equipment, and em 个人预防措施、防护 Environmental Prec 环境保护措施	以及佩戴全套防护装置。 ental Release Mea 急处理 ns, protective ergency procedures 户装备和应急程序	TIFW吸式全身防 ISUITES In case of Avoid co adequate equipme areas. Ku spill/leak Sections 万一破裂 衣员撤离 逆风。参 Prevent entering 防止产品 Stop the liquid wit immedia 出于安全	护装备, MSHA/NIOSH of rupture. Attention! Contact with skin, eyes an e ventilation. Use person nt as required. Evacuat eep people away from a . Refer to protective me 7 and 8. . 注意! 腐蚀性物质。 保空气流通。根据需要f 到安全区域。让人们远 考第七部分和第八部分 product from contamina sewers or waterways. 污染土壤和进入下水道 leak if safe to do so. Co h dry sand or earth. Cle	rrosive material. d clothing. Ensure nal protective e personnel to safe and upwind of asures listed in 避免接触皮肤, 眼睛或 使用个人防护装备。将 离溢出/泄漏处和处于 中列出的防护措施。 ting soil and from 或水道。 ontain the spilled an up spills

	通测检 测 TESTING CENTRE TECHNO		Material Safety Data She
Methods and 清理的方法和	I materials for cle 印材料	aning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to 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(干砂或泥土)吸收溢出的材料。污染物:移到可接受的废物容器中。收集所有受污染的吸收剂按照第十三部分的说明进行处理。用洗涤剂和水清洁; 染区域,收集所有受污染的洗涤水,妥善处理。
	Handling and \$ 操作处置与储存	•	
Handling 操作			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. 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。禁止短路或将电池正负极错误的安装在 设备中。
Storage 储存		Q	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children. 储藏于阴凉, 干燥, 通风处, 远离接触会发生反应的机料。存储锁定。放在儿童无法接触的地方。
Other Precau 其他要注意的			In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. 万一破裂。按照良好的工业卫生和安全规范进行操作 避免接触皮肤,眼睛或衣服。使用个人防护设备。
	Exposure Con		nal Protection
弗八部分子 Engineering 工程控制	赛触控制和个体		Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m ³ respirable fraction (10mg/m ³ total) should be observed. 保证空气流通使空气密度保持在低水平。如果在会生) 微粒的情况下使用,应仔细观察 3mg/m ³ ACGIH TLV-TWA 3 的吸入量(总量为 10mg/m ³)。
G			

	Material Safety Data Shee Eye and Face Protection: None required for
	consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.
	眼睛和脸部保护:消费者无需使用。如果有接触危险: 密封安全护目镜。面部防护罩。
Personal Protect	
个人防护设备	皮肤和身体防护: 消费者无需使用。如果有接触危险: 穿戴防护手套和防护服。
	Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. 呼吸系统防护:正常使用条件下不需要防护设备。如果 超过暴露限值或发生刺激,可能需要通风和疏散。
	世 <u>世</u> 家路附值以及工利做,可能而安迪八种项队。
Section 9- Phy	ysical and Chemical Properties
第九部分 理化	2特性
	Appearance: Cylinder
	外形:圆柱体
Physical State	Color: Pink
物理状态	颜色:粉色
	Odour: If leaking, smells of medical ether. 气味: 泄漏时, 医用乙醚的气味。
Change in condi 变化的条件:	ition:
pH 酸碱度	Not applicable as supplied. 不适用。
Flash Point 闪点	Not applicable unless individual components exposed. 除非单个的组件暴露,否则不适用。
Flammability 易燃度	Not applicable unless individual components exposed. 除非单个的组件暴露,否则不适用。
Relative density: 相对密度	Not applicable unless individual components exposed. 除非单个的组件暴露,否则不适用。
Solubility (water) 溶解性(水溶性)	Not applicable unless individual components exposed. 除非单个的组件暴露,否则不适用。
Solubility (other) 溶解性(其他)	Not applicable unless individual components exposed. 除非单个的组件暴露,否则不适用。

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第十部分 稳定性和反应性	
Chemical Stability	Stable under recommended storage conditions.
化学稳定性	在推荐的储存条件下可以保持稳定。
Possibility of Hazardous Reactions	None under normal processing.
危险反应的可能性	正常处理下没有。
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
应避免的条件	暴露在空气中或长时间受潮。
Incompatible materials	Acids, Oxidizing agents, Bases.
不相容材料	酸,氧化剂,碱。
Hazardous Decomposition Products	Carbon oxides.
有危害分解物	二氧化碳。
Section 11 – Toxicological Information 第十一部分 毒理学信息	n
Pritation 刺激	In the event of exposure to internal contents, vapour 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	Not Available.
改敏	不适用。
Reproductive Toxicity	Not Available.
再生毒性	不适用。
Toxicologically Synergistic Materials	Not Available.
协同材料毒理学	不适用。
Section 12-Ecological Information 第十二部分 生态学信息	
General note:	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
通用信息:	不允许未稀释或大量的产品接触地下水、水道或污水处理系统。
Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity 化学产品在环境/可能的环境预期的行为的-	Not Available. 不适用。
种生态毒性	

第十三部分 废弃处置 Vaste Treatment 废弃处置方法		8	Page				
			gover	cle or dispose nment, state 遵照国家和地力	& local regula	ations.	ķ
Attention for Waste Treatme 废弃注意事项	ent (ACC.	trash. tempe crushe recycl 废电批 温下。	rted batteries Shouldn't be erature. Shou ed or treated ling. 也不能被当作行 不能解体,可	thrown into f ldn't be disse similarly. Bes 普通垃圾。不 刺穿, 破碎或	ire or placed cted, pierce at disposal n 能扔进火中!	d in high d, nethod is 或置于高
Section 14 – Transport I 有十四部分 运输信息 <i>IN number</i>	nformatio						
联合国货物编号(UN 编号)	0400 & v		<u>X</u>				
		Lithium ion batteries (including lithium ion polymer batteries) or; 锂离子电池(包括锂离子聚合物电池)或;					
Proper shipping name 运输专用名称	polymer 与设备一 Lithium i polymer	batteries 一起包装的 ion batter batteries) or;)	ked with equi [:] 电池(包括锂 tained in equ 池(包括锂离	离子聚合物电 ipments (inclu	.池) 或 ; uding lithium	
IN Classification (Transpor azard class):	t IATA		、 包装说明	5 Section IB) 月 965 第 IB 剖			
N 分类(运输危险类别):	IMDG	N/A 不适用				(c)	
PG Packing Group: PG 包装等级:	N/A 不适用						
/arine pollutant(Y/N): 每洋污染物(Y/N):	N		3				
MDG EmS No.: MDG EmS 编号:	F-A, S-I						
Special precautions which a onnection with transport or	conveyan	nce eithe	e aware er with 都需要	ə of, or nee in or outsic	le their prèi	nises.	

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ICAO / IAT 国际民间航 运输协会:	A: 克空组织/国际航空	Organizat (IATA), D appropria 货物可根	hipped by air in tion (ICAO), TI GR Packing In te of IATA DGI 据民用航空组约 5 版)包装说明	or Internationa struction 965 \$ R 66 th (2025 E {(ICAO), TI ፤	al Air Transpo Section IB, 966 dition) for tran 或国际航空运转	rt Association 6~967 Sectior sportation. 俞协会 (IATA)	n II , DGR
IMDG COL 国际海运危	DE: <i>法险货物规则:</i>	42-24) ac	ries are not res cording to spec 规定 188,该电	cial provision 1	88.		
	三输危险货物协定 三输危险货物规则	/ special pr	ries are not res ovision 188. 规定 188,该电				g to
tests set out i	o be permitted in tran in Subsection 38.3 o !电芯和电池类型都必	f the UN Man	ual of Tests an	d Criteria.		(χG^{*})	



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