

World Standardization Certification & Testing Group Co., Ltd.



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Report No.: WSCT-BATT-210600109A-MSDS

Date:19 July 2021

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Material Safety Data Sheet 物质安全技术说明书

Applicant/申请商

TECNO MOBILE LIMITED

Address/地址

FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Product Name/产品名

Rechargeable Li-ion Polymer Battery

可充电锂离子聚合物电池

Issue date/签发日期

2021.07.19

Prepared by 编制:

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世标检测认证股份 Testing Group Co. Ltd.



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Section 1-Chemical Product and Company Identification

第1部分-化学品及企业标识

Product Name:	Rechargeable Li-ion Polymer Battery
样品名称:	可充电锂离子聚合物电池
Model No. 型号:	BL-49FT
Ratings额定值:	3.85V 4900mAh/5000mAh 18.86Wh/19.25Wh
Weight重量:	66.37g
Manufacturer:	Dong Guan Amperex Technology Limited
制造商:	东莞新能源科技有限公司
Address: W577	Songshan Lake Industry Park, Dongguan City, Guangdong Province, P.R. China
地址:	东莞市松山湖北部工业园
Tel.电话:	+86-755-61803856
Emergency Telephone	0755-68103856 W5LT W5LT
应急电话:	0733-08103630
Fax传真:	+86 75533979211
Email邮箱:	tac.qm@tecno-mobile.com
	样品名称: Model No. 型号: Ratings额定值: Weight重量: Manufacturer: 制造商: Address: 地址: Tel.电话: Emergency Telephone 应急电话: Fax传真: Email邮箱:

Section 2- Hazards Identification

第2部分-危险标识

_	Hazard	Not dangerous with normal use. Do not dismantle, open or shred the battery
	Description	ingredients contained within or their ingredients products could be harmful.
	危险性描述	正常使用没有危险,不能拆解、打开或分解电池,里面的材料或成分是有害的。
	Primary Route (s) of	Inhalation, Ingestion, Skin contact and Eye contact.
	Exposure 接触途径	吸入、食入、皮肤接触、眼睛接触。
	Potential Health	Inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.
	Effects	吸入:破裂的电池散发出来的气雾会引起呼吸道刺激。
_	潜在健康影响	Ingestion: The battery ingredients contained within or their ingredients products can
		cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.
	X	食入: 电池的组成成分或原料可以导致嘴, 食道和胃肠道的严重化学烧伤。
	All leading to the second seco	Skin: Skin contact with contents of an open battery can cause severe irritation or burns
	WSU	to the skin.





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皮肤:皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

Eye: Eye contact with contents of an open battery can cause severe irritation or burns

to the eye.

眼睛:眼睛接触到电池的應供学材料可能会导致严重的刺激或烧伤眼睛。

Section 3- Composition/Information on Ingredient 第3部分-成分组成/成分信息

WSFT WSFT TO	部分-队分组队/队分1	百息 W5/7°	W
Chemical Composition	Molecular Formula	CAS No.	Weight (%)
化学成分	分子式	CAS号	重量比
Lithium cobaltate	LiCoO ₂	12190-79-3	38.2
Aluminum(Anode)	Al	7429-90-5	6.4
Graphite	С	7782-42-5	19.6
W567 Copper W567	Cu _{5CT}	7440-50-8	12.1 W
Lithium hexafluorophosphate	F ₆ LiP	21324-40-3	0.9
Dimethyl carbonate	C ₃ H ₆ O ₃	616-38-6	10.6
Ethyl methyl carbonate	W5E7 C ₄ H ₈ O ₃	623-53-0	3.5
Polyethylene	(C ₂ H ₄)n	9002-88-4	2.2
Ethylene carbonate	C ₃ H ₄ O ₃	96-49-1	3.5
Nickel	Ni	7440-02-0	3.0

Note: CAS number is Chemical Abstract Service Registry Number.

注: CAS号是化学文摘登记号。

ertification

N/A=Not apply. N/A=不适用

XXXX

WSET WSET



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WSCT Section 4 - First Aid Measures 第4部分-急救措施

		—————————————————————————————————————
	Inhalation	Remove source of contamination or move victim to fresh air. Obtain medical
	吸入	advice.
	WSET	移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
	Ingestion	Please rinse mouth thoroughly with water. Induce vomiting under the guidance of
	食入	professional personage. Please seek medical treatment in time.
	A CONTRACTOR OF THE PARTY OF TH	立即用清水漱口,在专业人士的指导下催吐,速就医。
/	Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15
	皮肤接触	minutes. Get medical aid.
		脱下已污染衣服,用大量的水冲洗至少15分钟,速就医。
	Eye contact	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.
	眼睛接触	用流动水冲洗15分钟柯如刺激持续发生,请求助于医生。

Section 5 – Fire Fighting Measures

第5部分-消防措施

Characteristics of Hazard 危险特性 W577	Toxic fumes, gases or vapors may evolve on burning. 火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products: 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳,二氧化碳,锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use dry powder fire extinguisher and other proper fire extinguishing media. 请使用干粉灭火器等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

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Section 6 – Accidental Release Measures 第6部分-泄漏应急处理

		フロットリン 1座のは/上がらりた・土	
	Personal Precautions,	Restrict access to area until completion of clean-up. Do not touch the spilled	
	protective equipment, and	material. Wear adequate personal protective equipment as indicated in Section 8.	
	emergency procedures	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	
	个人预防措施、防护装备	备,如第8部分所示。	
	和应急程序		×
	Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.	J
_	环境保护措施	防止泄漏物质污染土壤、进入污水道或水道。	L
	Methods and materials for	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean	
	Containment	up spills immediately.	
	方法和材料控制	出于安全,阻止泄漏,可以用干砂或沙土来遏制液体泄露,立即清理泄漏。	
	Methods and materials for	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop	
	cleaning up	contaminated absorbent into an acceptable waste container. Collect all contaminated	×
	清除方法及处置材料	absorbent and dispose according to directions in Section 13. Scrub the area with	
_	W5ET	detergent and water; collect all contaminated wash water for proper disposal.	1
		用惰性吸收剂(干燥沙子或泥土)吸收溢出的物质,将受污染的吸收剂铲到装	
	X	废物的容器里。收集所有被污染的吸收剂并按第13部分的指南处理。用清洁剂	
		和清水刷洗该区域,收集所有被污染的水进行适当处理。	

Section 7 – Handling and Storage 第7部分-操作处置与储存

/	Handling	Don't handling Rechargeable Li-ion Polymer Battery with metalwork. Do not open,	2
	操作	dissemble, crush or burn battery. Ensure good ventilation/ exhaustion at the	
		workplace. Prevent formation of dust. Information about protection against	
0	WSET	explosions and fires: Keep ignition sources away- Do not smoke.	
		不用金属制品处置电池。不打开、拆卸、挤压或燃烧电池。确保工作场所通风	
		/排气良好。防止形成粉尘。为防止爆炸和火灾应:远离火源-不吸烟。	>
	Storage	If the batteries are subject to storage for such a long term as more than 3 months, it	
	WSCT	is recommended to recharge the Rechargeable Li-ion Polymer Battery periodically.	Ž
	储存	Storage Temperature	
	X	A month: -20~+60°C, 75%RH Max	
		Short period less than 3 months: -20~+45°C, 75%RH Max	
	WSET	Long period more than 3 months: +5°C~+35°C,75%RH Max	





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	W5CT	A year: -20~28°C, 75%RH Max
		Do not storage the batter/ haphazardly in a box or drawer where they may
	X	short-circuit each other or be short-circuited by other metal objects.
		Keep out of reach of children.
	WSET	Do not expose the battery to heat or fire. Avoid storage in direct sunlight.
		Do not store together with oxidizing and acidic materials.
	X	如果电池的储存期限在3个月以上,建议定期对可充电锂离子聚合物电池充电。
		储存温度
-/	W-7-1	一个月: -20~+60℃, 最大75%RH
		不超过3个月: -20~+45℃, 最大75%RH
		超过3个月: +5~+35℃, 最大75%RH
	WSCT	一年: -20~28℃, 最大75%RH
		不要将电池随意丢在盒子或抽屉里,以免电池之间或电池与其他金属物质发生
		短路。
		储存在小孩接触不到的地方。
	W5LT	不要将电池暴露在火源和热源附近,避免在阳光直射下存储。

Section 8 – Exposure Controls, Personal Protection W5. 第8部分-接触控制和个体防护 W5.77

21		
Engineering control:	Use local exhaust ventilation or other engineering controls to control sources of	
工程控制	dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool,	
W5CT°	dry place. W5ET W5ET	
	使用局部排气通风或其他工程控制方法控制粉尘、雾、烟雾和蒸汽的来源。远	
X	离高温和明火。储存在阴凉干燥的地方。	
Respiratory protection:	Not necessary under normal conditions.	
呼吸系统防护	正常条件下不需要。	
Skin and body Protection:	Not necessary under normal conditions. Wear neoprene or nitrile rubber gloves if	
皮肤和身体防护	handling an open or leaking battery.	
WSET	正常条件下不需要。处理拆解过的电池或漏液电池需要戴氯丁橡胶或丁腈橡胶	





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	WSET	手套。 WSCT WSCT WS
	Eye protection:	Not necessary under normal conditions. Wear safety glasses if handling an open or
	眼睛防护	leaking battery.
		正常条件下不需要。处理拆解过的电池或漏液电池需要戴安全眼睛。
	Hands protection:	Wear neoprene or natural rubber material gloves if handling an open or leaking
	手防护	battery.
		处理拆解过的电池或漏液电池需要戴氯丁橡胶手套或天然橡胶手套。
	Others protection:	Have a safety shower and eye wash fountain readily available in the immediate
	其他防护	work area.
	\times	在接近工作区的地方要有便捷可用的安全淋浴装置和洗眼喷泉。
L		

Section 9-Physical and Chemical Properties 第9部分-理化特性

	Physical State	Form: Solid	
/	物理状态	物态: 固体	7
4		Color:Silvery	
		颜色: 银色	
	WSET	Odour: Monotony—• W577° W577°	
		气味: 无味	
	Change in condition 变化	\times \times \times	
	条件:		
	pH, with indication of the	WSET WSET WSET	7
	concentration	Not applicable.	
	pH,有浓度指示	不适用	
	Melting point/freezing	Not applicable. 5CT W5CT W5CT	
	point	Not applicable. 5CT [®] W5CT [®]	
	熔点/凝固点	(1)E/II	/
	Boiling Point, initial	XX P. II	
	boiling point	Not applicable.	
	沸点,初沸点	不适用 WSCT WSCT	Ĺ
	Flash Point	Not applicable.	
	闪点	不适用	
0	Upper/lower flammability	Not applicable. CT WST	





Vapor Pressure

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Not applicable.



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or explosive limits 不适用。 W5.77 W5.77 上/下燃烧或爆炸限值

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蒸汽压不适用Vapor Density: (Air = 1)Not applicable.蒸汽密度: (空气=1)不适用Density/relative densityNot applicable.密度/相对密度不适用

Solubility in Water 水溶 Not applicable. 性 不适用

n-octanol/water partition coefficient Not applicable. 不适用

Auto-ignition temperatureNot applicable.自燃温度不适用

Decomposition temperature 分解温度 Not applicable. 不适用

Odout threshold Not applicable. 溴阈 不适用

Evaporation rateNot applicable.蒸发速率不适用Flammability (soil, gas)Not applicable.

易燃性(土壤,气体) 不适用 Viscosity Not applicable.

粘度 不适用

Section 10 - Stability and Reactivity

第10部分-稳定性和反应性

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WSU

ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China





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WSET [®]	露在潮湿条件下。
Hazardous Decomposition	Toxic Fumes, and may form peroxides
Products	有毒烟雾、并可能形成过氧化物。
危险的分解产物	
Possibility of Hazardous	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis,
Reaction	halogenated hydrocarbons.
危险反应的可能性	如果发生泄露,避免与强氧化剂,无机酸,强碱,卤代燈接触。

Section 11- Toxicological Information

第11部分 责押学信息

_		为11即从"每年子间心"。				
	Irritation	In the event of exposure to internal contents, vapor fumes may be very irritating to				
	刺激性	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产生刺激性。				
4	Sensitization	Not applicable.				
	致敏性	不适用				
	Reproductive Toxicity	Not applicable.				
	再生毒性	不适用				
	Toxicologically					
	Synergistic	Not applicable.				
	Materials	不适用				
	协同材料毒理学	WSET WSET WSET WSET				

Section 12- Ecological Information 第12部分-生态信息

General note Do not allow undiluted product or large quantities of it to reach ground water, water 通用信息 course or sewage system. 不允许未稀释或大量的产品到达地下水、水道或污水系统 Anticipated behavior of a

chemical product in Not applicable. environment/possible 不适用

environmental impact/

ecotoxicity

tification

ADD:Building A-B Baoshi Science



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	化学产品在环境/可能的	VSCT [®]	WSET [®]	WSET	WSE
	环境预 期的行为的一种				
	生态毒性	X	X		X
	Mobility in soil	Not applicable.			
	土壤中移动性 /507	不适用 W5CT	WSET	W	5ET
	Persistence and	N (1 11			
	Degradability	Not applicable.	X	X	X
	持久性和降解性	不适用	WE ET	NACCE .	Ave to

Section 13- Disposal Considerations 第13部分-废弃处置

Product disposal recommendation: Observe local laws and regulations.

物品废弃处置建议:遵守当地法律法规。

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local laws and regulations.

包装废弃处置建议:注意废弃电池可能会引起火灾,用胶带包住电池端子以隔离它们。完全清空容器 (无水珠、无粉末,要仔细擦拭)。容器可循环使用或二次利用。遵守当地法律法规。

For purpose of protecting environment and human health, do not throw batteries as municipal waste, and sort the batteries for recycling.

为保护环境和人群健康,不要将电池当城市垃圾丢弃,将电池分类以回收。

Section 14- Transport Information 第14-部分-运输信息

This report applies to by sea, by air and by land;

本报告适用于海运、空运和陆路。

The Rechargeable Li-ion Polymer Battery (model: BL-49FT) has passed the test the UN manual of tests and Criteria,

Part III, subsection 38.3, according to the report ID: WSCT-CNAS-BATT-210600104A-UN

该可充电锂离子聚合物电池(型号: BL-49FT)已通过UN38.3测试,依据的报告编号为:

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The Rechargeable Li-ion Polymer Battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

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该可充电锂离子聚合物电池已加以保护防止短路。这包括防止同一包装件内可能导致短路的导电材料与电池直接接触。

The Rechargeable Li-ion Polymer Battery according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2021 IATA Dangerous Goods regulations 62th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Rechargeable Li-ion Polymer Battery. 该可充电锂离子聚合物电池依据2021 IATA危险品运输条例62版中965II/965IB或966-967II方式可进行运输,也符合美国锂离子安全运输要求。

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从 label master 上获取: http://www.labelmaster.com/。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

包装件在运输、搬运和堆放过程中应合理放置以避免机械损坏。包装材料选取和包装设计应能防止意外电传导电池端子腐蚀以及湿气侵入。

The package must be handled with care and that a flammability hazard exists if the package is damaged; 包装件必须小心搬运,包装件损坏会有燃烧危险。

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.

关于运输要求,引用参考下列规定:

- -国际民用航空组织(ICAO)技术说明;
- -国际航空运输协会(IATA)关于危险货物的规定。

UN number of lithium battery: UN3480 or UN3481

锂电池的UN编号是: UN3480或UN3481

Marine pollutant(Y/N): N;

海洋污染物(是/否): 否

- The International Maritime Dangerous Goods (IMDG) Code.
- -国际海运危险货物(IMDG)法规。

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit. 锂电池的海运,须用坚固包装以及防止电池短路。

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957; 特殊规定: 国际海运危险危险品法规(IMDG)188、230、310、348, 957;

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Section 15 – Regulatory Information 第15部分-法规信息

《Dangerous Goods Regulations》

《危险物品规则》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《危险货物运输的建议模型规定》

《International Maritime Dangerous Goods》

《国际海上危险货物运输》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险货物安全运输技术指南》

《Classification and code of dangerous goods》

《危险货物分类与代码》

《Occupational Safety and Health Act》 (OSHA)

《职业安全与健康法案》(OSHA)

《Toxic Substance Control Act》 (TSCA)

《有毒物质控制法》(TSCA) //5/

《Consumer Product Safety Act》(CPSA)

《消费者产品安全法案》(CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《联邦环境污染控制法》(FEPCA)

《The Oil Pollution Act》(OPA)

《石油污染法》(OPA)

《Superfund Amendments and Reauthorization Act Title III(302/311/312/313)》 (SARA)

《超级基金修正案和 再授权法案 Title III(302/311/312/313)》(SARA)

《Resource Conservation and Recovery AM》 (RCRA)

《资源保护和恢复法案》(RCRA)

《Safety Drinking Water Act》 (CWA)

《安全饮用水法》(CWA)

《California Proposition 65》

《加州65号提案》

《Code of Federal Regulations》(CFR)

《联邦条例》(CFR)

In accordance with all Federal, State and local laws.

符合所有联邦、州和地方法律。

tification

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Section16 – Additional Information 第16部分-其他信息

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