

# 材料安全数据表 Material Safety Data Sheet

报告编号: Report No:	BCTC2412977998B
委托单位:	深圳市绿联科技股份有限公司
Applicant	Ugreen Group Limited
产品名称:	5000mAh 磁吸无线充移动电源
Product Name:	5000mAh Magnetic Wireless Power Bank
产品型号:	PB560
Test Model:	PDJOU
签发日期:	2024-12-19
Issued Date:	(生效日期 Effective Date:2025-01-01)
编   制: Prepared By:	suli
批 准: Approved By:	Andre In



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

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版本/Edition: A.5



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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 requ			
	tion 1-Chemical Produc	学品及企业标识 ct and Company Identifi	cation
产品名称	5000mAh磁吸无线充移动电流		
Product Name 型号	5000mAh Magnetic Wireless	Power Bank	
空亏 Model/Type Reference	PB560 (内部电芯型号/ Intern	al cell model: 626078)	
商标	UGREEN		
Trademark			
额定参数 Ratings	│ 3.7V, 5000mAh, 18.5Wh(内音 │ 18.5Wh)	部电芯额定参数/ Internal cell ra	tings: 3.7V, 5000mAh,
重量 Weight	146.7g		
	深圳市绿联科技股份有限公司	1	
Manufacturer	Ugreen Group Limited	-	
制造商地址	深圳市龙华区大浪街道高峰社	上区龙城工贸御安厂区7号办公	楼1层-6层、6栋厂房4楼
前近间705加 Address	Ugreen Building, Longcheng China	Industrial Park, Longguanxi R	oad, Longhua, ShenZhen,
生产厂	深圳市富士达工业有限公司		
Factory	Shenzhen Firstar Battery Co	., Limited	
生产厂地址 Address	层、第 6 栋 201、第 3 栋第一 The 01st /02nd /03rd / 04th f building, and the 01st /02nd	上区福中工业园第2栋101、第 一层、第二层 loors of the Second building, th floors of the Third building and Street, Bao'an District, Shenzh	ne 201 floor of the Six the Fuzhong Industrial Park,
应急电话 Emergency Telephone	0755-28066530		
	Section 2- Comp	}─成分信息 osition Information	
化学成分 Chemical Composition	CAS号 CAS No.	含量(%) Weight (%)	商业机密 Trade Secret
锂镍锰钴 Cobalt lithium manganese nickel oxide	182442-95-1	35.05	
石墨 Graphite	7782-42-5	15.98	\\\\ <b>\</b>   /////
炭黑 Carbon black	1333-86-4	0.79	*
六氟丙烯 Hexafluoropropylene-vin ylidene fluoride copolymer	9011-17-0	9.87	*
碳酸二甲酯 Dimethyl carbonate	616-38-6	4.38	*
碳酸甲乙酯 Ethyl methyl carbonate	623-53-0	2.29	*

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Disposal 环境危害 Environmental hazards: 重要症状 Important symptoms: 眼睛接触 Eye contact	No relevant informatio 见第11部分更多信息 See section 11 for mor <b>第四部</b> <b>Section 4- Fi</b> 万一接触,立即用大量 消失为止,迅速就医。		
环境危害 Environmental hazards: 重要症状 Important symptoms:	No relevant informatio 见第11部分更多信息 See section 11 for mo 第四部 Section 4- Fi	re information 分−急救措施 <b>rst Aid Measures</b>	上下眼脸,直到化学的残留物
环境危害 Environmental hazards: 重要症状	No relevant informatio 见第11部分更多信息 See section 11 for mot <b>第四部</b>	re information 分─急救措施	
环境危害 Environmental hazards: 重要症状	No relevant informatio 见第11部分更多信息 See section 11 for mot	re information	
环境危害 Environmental hazards: 重要症状	No relevant informatio 见第11部分更多信息		
环境危害 Environmental hazards:	No relevant informatio	n	
环境危害		n	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
Disposal	无相关信息	and the second	5555556HH <i>H1////</i> /
~~~	小道用 No available	and the second	XXXXXXXII <i>II/////</i> /
 处理	不适用	and the second sec	XXXXXHH <i>HH</i> //
Response	No available		
反应		and the second	<u> </u>
所的 Prevention	小道用 No available	and the second sec	(NNN) = M/M
预防	( <b>5).</b> 不适用		$\times$ $\times$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
顶的产奶 Precautionary statement	(s)·		N N N N H H I / /
Tazard statement(s) 预防声明			
厄闷严呀 Hazard statement(s)	小迫用 No available	5. S	$\wedge \wedge \wedge + + + /$
Signal word 危险声明	No available 不适用		
提示语 Cianal word	不适用		
Hazard pictogram(s)	No available		
危险标签图	不适用		
Label elements:			
标签元素			
GHS			
Classification according	to Not a dangerous subs	tance according to GHS	
GHS分类	不属于GHS危险物品		
Emergency overview:	N/A		
紧急情况概述	不适用		
		ards Identification	
		►危险性概述	
" * " The exact p		composition has been withheld	as a trade secret.
		)的构成已经作为商业机密。	
Aluminum			
铅	7429-90-5	9.38	*
rubber(SBR)			
Styrene -butadiene	91789-96-6	0.71	*
Copper 丁苯橡胶			
铜	7440-50-8	8.39	*
carbonate(PC)			
Propylene	108-32-7	1.11	*
碳酸丙烯酯			
Diethyl carbonate(DEC)	105-58-8	2.70	
碳酸二乙酯	105 50 0	2.76	*
Ethylene carbonate(EC)	96-49-1	6.34	Ť
碳酸乙烯酯	00.10.1	0.01	*
hexafluorophosphate			
	21324-40-3	2.95	*
六氟磷酸锂 Lithium			

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论检测

# BCTC 倍测检测 报告编号/Report No.: BCTC2412977998B

皮肤装幀     万一技娘,用大量的水冲洗全少15分钟,问时除去污染的衣物和鞋子,迅速就送。       Skin contact     Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.       取入     立即从暴露後終至空气清新处,如果呼吸困难命子输氧,立即就压。       masterion     公司川城市子敏速水,如果当率人仍然清晰可以不吸進性的方法,并且立即凝除。       Masterion     Standard       Wata     Quimus and a physician.       Masterion     Section 5- Fire Fighting Measures       Section 5- Fire Fighting Measures     Section 5- Fire Fighting Measures       水芯用     N/A       Auto-Ignition Temperature     N/A       Special Fire-Fighting     日金菜香雪寸过热的环境中时,安全阀可能会打开       Cell may vent when subjected to excessive heat-exposing battery contents       燃烧子生的危險物晶     -氧化定素,二氧化废、一氧化医素血力理、该体或用的交流及处理       Products     算大部,文型使用、清晰方法       Products     算大部,一氧化成素和完全处理       Section 6- Accidental Release Measures        Aradio precasional and contrained or the area and allow the vapors to dissipate, Avid Skin and every cost of dis		and lower eyelids. Get medical aid.
Backwein     Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.       吸入     立即从集景处格至空气清新处,如果呼吸用桌给子输氧,立即就医.       Inhalation     Remove from exposure and move to fresh air immediately. Use oxygen if available.       被入     (Great least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.       第五部分 滑稽的措施     Section 5- Fire Fighting Measures       水ご用     不适用       Flash Point     N/A       Auto-Ignition Temperature Rykyth     木、二氧化碳       大火水用 Fash Point     水、二氧化碳       N/A        Auto-Ignition Temperature Rykyther and Explosion Hazardos     A: 二氧化碳       Products     Self-contained breating apparatus       Products     当也总量素子过热的环境中时,安全颅可能会打开 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     Setf-contained Release Measures       如果化胞素素成素子这个用意能注意意处理     -氧化碳, 甲氧化碳, 四氧化碳, 四氧化碳, 四氧化碳, 四氧化碳, 四氧化碳, 四氧化碳, 四氧化碳, 四氧化酸、和 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     Setf-contained Release Measures       如果化胞素素素、量、氧化、氧化碳、甲氧化碳、氧化酸素和素素、 生成素、氧化酸素、酸素化酸素和 Cheftet物质素、小量素、氧化酸素和 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     Setf-contained Release Measures       第次市分子、電力分子、電気を強力、電気を使用		
Inhalation     Remove from exposure and move to fresh air immediately. Use exygen if available.       য়A Ingestion     (次用两林牛奶或水,如果当事人奶然清晰可以采取催止的方法,并且立即意因。 Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.       第重部分-消防措施 Exection 5- Fire Fighting Measures       激点     不适用 N/A       Index pipe     不适用 N/A       Auto-Ignition Temperature Extinguishing Media     水(       N/A     第本, 二氧化成 HQ, CO2       特殊変火程序 Special Fire-Fighting Procedures     当电芯暴露于过热的环境中时,安全領可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents       環境学生的危險物晶 Hazardous Combustion Products     当电芯暴露于过热的不境中、使全領可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents       第常大或成婚者 Procedures     二氧化碱,二氧化碱,標氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     第六常分子世費高位及理 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Provide maximum ventilation to telar out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and emergency procedures     不允许产品或加減な性が減な使用の部门。 不允许产品到达排水系统或任何水源,通知和应的部门。 不允许产品到达排水系统或任何水源, 如果滲透出protexture equipment and encenture.     不知業透達指本系统或任何水源, 如果滲透出protexture equipment and encenture.       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 encenture.     Provide maximum ventilation to clear out		Remove contaminated clothes and rinse skin with plenty of water or shower for 15
感染本 ingestion     Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.       第五部分-消防措施 Section 5- Fire Fighting Measures       激点     不近用 N/A       自燃温度     不近用 N/A       Auto-Ignition Temperature     N/A       生tringuishing Media     HO, CO2       特殊灭火程序 Special Fire-Fighting Procedures     自会式呼吸器 Self-contained breathing apparatus       予rocedures     当电芯暴露于过热的环境中时,安全阀可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents       激烧产生的危险物品 Hazards     一氧化碳, 二氧化碳, 佳氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     如果电池被泄漏, 让人员离开该区域理 YesCombustion Products     □氧化碳, 二氧化碳, 白氧化硷黄油属、th,员离开该区域理 YesCombustion Protective equipment and experiment precautions, protective equipment and emergency procedures     如果电池被泄漏, 让人员离开该区域在其当教气体, 遮负皮ی成和电油油强发生时, 液体可以用砂, 泥土或其 他衔性物质术吸收力; 污染区域液体开锁之体, 逼负和电油油温发生时, 液体可以用砂, 泥土或其 他衔性物质术吸收力; 污染区域液体开锁之体, 逼负和电油油温的或体 souted skin and eves contact or inhalation of vapors. Remove spilled liquid with absorbent and encarted. 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.       环党驻网前增遭材的方法 Methods and material for containment and cleaning     不允许产品到达排水系统或任何水源, 通知和应的部门。 不允许产品和支援在标准成不愿人工具有物质词社入大地、下水道及和面、and electrolyte may leak. Collect all		
第五部分-消防措施 Section 5- Fire Fighting Measures       燃点 Flash Point     不近用 N/A       flash Point     N/A       atur-Ignition Temperature     N/A       X/A     Auto-Ignition Temperature     N/A       Auto-Ignition Temperature     N/A       X/A     N/A       System     A 二氧化碳       Extinguishing Media     H.O., CO2       特殊死火程序     Self-contained breathing apparatus       Procedures     Self-contained breathing apparatus       Procedures     Self-contained breathing apparatus       Procedures     Self-contained breathing apparatus       Mazardos Combustion     -氧化碳, 二氧化碳, 锂氧化物細气       Products     -氧化碳, 二氧化碳, 锂氧化物細气       Section 6- Accidental Release Measures     -氧化酸、二氧化酸、二氧化酸、如果电液酸二酸、小量水酸化物可以用砂、泥土或其       如果电池酸泄露。让人员高开该区域直到關雾消散、提供最大限度的通风、清除有害     -氧化酸、二氧化酸、二氧化酸、二氧化酸、二氧化酸、二氧化酸、二氧化酸、二氧化酸、二		Give at least 2 glasses of milk or water. Induce vomiting unless patient is
燃点     不适用       Flash Point     N/A       Flash Point     N/A       Atub-Ignition Temperature     N/A       双火介质     ボ、二氧化碳       天火介质     ボ、二氧化碳       Fastryzgk     1台念式呼吸器       Special Fire-Fighting     Self-contained breathing apparatus       Procedures     Self-contained breathing apparatus       P常火文双爆炸     1台念式呼吸器       Unusual Fire and Explosion     =由こ基露子过热的环境中时,安全個可能会打开       Cell may vent when subjected to excessive heat-exposing battery contents     感激学生的危险物品       Hazardous Combustion     -氧化碳,二氧化碳, 硅氧化物烟气       Products     Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     第六部分一泄露应急处理       Section 6 - Accidental Release Measures     如果中也地被迴激、: 比人员高开这个地区并消散气体, 递免皮肤和眼睛接触或吸入气体, 活吸步力, 液体可以用砂、泥土或其       修告性物质束吸收,污染区域应该保持通风。     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 prisone spilled liquid with absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.       Frig有防防措施     不允许产品到达排水系统或任何水源、通知和应的部门. <th></th> <th>第五部分─消防措施</th>		第五部分─消防措施
Flash Point     N/A       自燃温度     不适用       Auto-Ignition Temperature     N/A       XX/分页     N/A       Systing     N/A       Systing     N/A       YA/A     YA       Systing     N/A       Special Fire-Fighting     Procedures       Procedures     Self-contained breathing apparatus       Special Fire and Explosion     当电芯暴露于过热的环境中时,安全阀可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents       激爆产生的危险物品 Hazardous     一氧化碳, 建氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes.       Products     第大部分一體露应急处理       Section 6-Accidental Release Measures       如果电池被泄露, 比人员离开该区域互動理察消散, 提供最大限度的通风, 消除有害 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。 用吸收剂清除量出的液体然后焚烧,通风。       加聚电池被泄露, 比人员离开该区域互動理察消散, 提供最大限度的通风, 清除有害 气体。首选的反应就是高大要求, 如果电池泄漏酸生时, 流体可以用砂, 泥土或其 他恰恰物质来吸收, 污染区域应该保持通风。       ft the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred reprosense is to leave the area and allow the vapors to dissipate, Avid 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 inet substance and contaminated area should be ventilated meantime.       环境评论工作来系统或任何本源.     如果电池子花没不许注入下术道大		
Auto-Ignition Temperature     N/A       死火介质     ホ、二氧化碳       Extinguishing Media     村2O, CO2       特殊天父程序     自给式呼吸器       Special Fire-Fighting     自给式呼吸器       Procedures     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     当电芯暴露于过热的环境中时,安全阀可能会打开       Muscards     一氧化碳,二氧化碳,但氧化物烟气       Carbon monxide, carbon dioxide, lithium oxide fumes.       Products     一氧化碳,二氧化碳,目電和含量的面的运,清除有害       个人预防措施、保护设备和应     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       个人预防措施、保护设备和应     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       个人预防措施、保护设备和应     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       个体。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。     用吸收剂清除着自告       着程序     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       Personal precautions, protective equipment and every barget back was back when uptilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate, Provide maximum ventilation to vapors. Remove pailed liquid with absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime. <b>环</b> 境许产品到达排水系统或任何水源,通知相应的部门。     不允许是A该进业大成域和标志、       Pont 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 seweres' su		
Extinguishing Media     H <sub>2</sub> O, CO <sub>2</sub> 特殊灭火程序     自给式呼吸器       Special Fire-Fighting     自给式呼吸器       Freedures     Self-contained breathing apparatus       算常火灾或爆炸     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     当电芯暴露于过热的环境中时,安全阀可能会打开       Mazards     "自令式呼吸器       Self-contained breathing apparatus     "       Products     "       Products     "       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,清除育害       气体。音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Q、气体、       小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。       Jf 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 eves contact or inhalation of vapors. Kenove 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. <b>环</b> 境许产品到达排水系统或任何水源.     Du果谗凌选排水系统或任何水源. <b>如</b> 果渗透过排水系统或任何水源.     Du果陰渗透过排水系统或任何水源. <b>如</b> 果渗透过排水系统或在任何水源.     Do not allow product to reach sewage system or any water source.		
Special Fire-Fighting Procedures目前式町改益 Self-contained breathing apparatus算常火灾或爆炸 Unusual Fire and Explosion Hazards当电志暴露于过热的环境中时,安全阀可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents燃烧产生的危险物品 Hazardous Combustion Products一氧化碳,二氧化碳,锂氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes. ク人預防措施、保护设备和应 含程序 Personal precautions, protective equipment and emergency procedures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。 月蒸化成应该是离开这个地区并消散气体,现免皮肤和眼睛接触或吸入气体。 化素造成方应或是离开这个地区并消散气体,现免疫胀和眼睛接触或吸入气体。 化素达的反应就是离开这区域应该保持通风。 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.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, 如果渗透进排水系统或任何水源, 如果渗透过非水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 如果渗透过排水系统或任何水源, 和和和流型和的方法 Methods and material for containment and cleaning抑制剂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。theumother exerces/sufface or ground water. 如果地的法律法规米处置,避免可溶物质进入大地、下水道或水源。 相当地的法律法规米处置,避免可溶物质进入大地、下水道或水源。 theatery casing is dismantled, small amounts of electrolyte may leak. Collect all		
Unusual Fire and Explosion Hazards     의电心泰蜂了边熱的外現中的,安主阀响能会打开 Cell may vent when subjected to excessive heat-exposing battery contents       燃烧产生的危险物品 Hazardous Combustion Products	Special Fire-Fighting Procedures	
Hazardous Combustion Products <sup>¬</sup> 乳化酸, - 乳化酸, carbon dioxide, lithium oxide fumes. <b>第六部分-泄露应急处理</b> 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 他惰性物质来吸收,污染区域应该保持通风。     ft be 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.     环境預防措施 Environment precautions      不允许产品到这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。 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.     抑制和清理材料的方法 Methods and material for containment and cleaning      如果他地外壳被拆除,少星电解液可能合迅流, 水氟、加和 and anounts of electrolyte may leak. Collect all	Unusual Fire and Explosion Hazards	
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 他惰性物质来吸收,污染区域应该保持通风。个人预防措施、保护设备和应 急程序 Personal precautions, protective equipment and emergency proceduresIf 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.环境预防措施 Environment precautions不允许产品到达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。 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.抑制和清理材料的方法 Methods and material for containment and cleaning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 描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。 If battery casing is dismantled, small amounts of electrolyte may leak. Collect all	Hazardous Combustion	
小人预防措施、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。 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.环境预防措施 Environment precautions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。 不允许产品到达排水系统或任何水源。 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.抑制和清理材料的方法 Methods and material for containment and cleaning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。 If battery casing is dismantled, small amounts of electrolyte may leak. Collect all		
环境预防措施 Environment precautions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。 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.抑制和清理材料的方法 Methods and material for containment and cleaning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 If battery casing is dismantled, small amounts of electrolyte may leak. Collect all	急程序 Personal precautions, protective equipment and	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。 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
	Environment precautions 抑制和清理材料的方法 Methods and material for	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。 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 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。
	-	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

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	and rules, Avoid leached substances to get into the earth,
	canalization or waters.
	Section 7- Handling and Storage
	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。
操作处置 Handling	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 Other Precautions	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。 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.
Sect	第八部分─接触控制和个体防护 tion 8- Exposure Controls/Personal Protection
	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.
个人防护装备 Personal Protective Equipment	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。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。Respiratory Protection: Not necessary under normal conditions.Skin and body Protection: Not necessary under normal conditions, Wear suitable
其它防护装备	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. 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
Other Protective Equipment 卫生措施 Hygiene Measures	work area. 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.

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	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	米白色,灰色
Color	Creamy white, gray
气味	不适用
Odour	No available
酸碱度	不适用
рН	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 日始庇	
易燃度 Flash Point	不适用 No available
Flash Point 自燃或爆炸的上、下极限	
目然與爆炸的上、下伮限 Upper/lower flammability or	不适用
explosive limits	No available
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
	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
稳定性	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
亡险在始友体	加热 <b>70°C</b> 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
应避免的条件 Conditions to Avoid	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.
	氧化剂,酸,碱。
小城谷山均种 Incompatible Materials	Oxidizing agents, acid, base.
	טאוטובוווש מעטוונג, מטוט, שמשב.

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危险分解物	一氧化碳、二氧化碳、氧化锂烟雾。
Hazardous Decomposition	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Products	
危险反应的可能性	不适用
Possibility of Hazardous	Not Available
Reaction	
	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	Risk of irritation occurs only if the cell is mechanically, thermally or electrically
Irritation	abused to the point of compromising the enclosure. If this occurs, irritation to the
	skin, eyes and respiratory tract may occur.
	不适用
 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
Mutagenicity (Genetic	不适用
Effects)	Not Available
附带材料毒理性	不适用
Toxicologically Synergistic	
Materials	Not Available
	第十二部分生态学资料
	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
Persistence and	不适用
Degradability	Not Available
	不适用
Bioaccumulation potential	Not Available
其他不利影响	不适用            / / /         / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / /       / / / / /       / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /         / / / /           / / / /         / / / /         / / / /         / / / /         / / / /         / / / /           / / / /           / / / /             / / / /             / / / /             / / / /             / / / /             / / / /
天心小和影响 Other Adverse Effects	Not Available
	第十三部分─废弃处置 Section 13- Disposal Considerations
产品废弃处理建议	遵守当地、州和联邦法律和法规。
Product disposal	Observe local, state and federal laws and regulations.
recommendation	ebberve local, state and rederal laws and regulations.
包装处理建议	废弃处理必须根据当地法规
Packaging disposal recommendation	Disposal must be made according to official regulations

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第十四部分-运输信息
Section 14 – Transport Information
UN 3480
PI965 Lithium ion Batteries
9
IATA第66版DGR手册
IATA DGR Manual 66th
海运危险货物规则(Amdt. 42-24)的特殊规定188
IMDG CODE (Amdt. 42-24) SP188
国际危险货物道路运输协定
ADR - Agreement concerning the International Carriage of Dangerous Goods by
Road
国际危险货物铁路运输协定
RID - Regulations concerning the International Carriage of Dangerous Goods by
Rail
sed in accordance with UN38.3.
sure that the goods will not falling, dropping, and breakage, Prevent collapse of carg 第十五部分 法规信息
第十五部分 法流行态 Section 15- Regulatory information
Coode Degulations
s Goods Regulations»
的建议》《Recommendation on the Transport of Dangerous Goods Model Regulations
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調整



# 报告编号/Report No.: BCTC2412977998B

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. 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.

编号/No.: BCTC/RF-BAT-007

版本/Edition: A.5



# 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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