Material Safety Data Sheet

## MSDS Report MSDS 报告

Applicant's name 委托方名称	Energea Pte Ltd.	6	
Applicant's Address 委托方地址	60 PAYA LEBAR ROAI (409051)	D #07-54 PAYA LEBAR SC	QUARE SINGAPORE
Name of Sample 样品名称	Power Bank 移动电源	(C)	
Model 型号	AluPac Air 5K		
Nominal Voltage 标称电压	Battery: 3.85V Output: 5V/9V/12V		Ś
Rated Capacity 额定容量	5000mAh, 19.25Wh		
Weight 重量	118.419g	C	
Size 尺寸 (L×W×T)	(105.0×65.5×8.9) mm	5)	C)
Prepared By 编制单位	Subdistrict, Bao'an Dis	•••	ng, China
Report No. 报告编号	TCT240703M032		Ś
/ritten by 编写:	7	proved by 批准:み fective Date 生效日期:	
	•		



## Material Safety Data Sheet 化学品安全技术说明书

**FCT**通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample <i>样品名称</i>	Power Bank 移动电源		
Manufacturer's nar 生产单位名称	me   Shenzhen Memorytale     深圳市宝汇鑫科技有限	ent Technology Limited 县公司	
Manufacturer's Address <i>生产单位地址</i>	shenzhen, Guangdon	uo Artificial Intelligence Hu g, China 子48 号企生活人工智能华哲	
Tel 电话	+86-769-27231966		
Emergency Tel 应急电话	+86-769-27231966		
E-mail 邮箱	rivers@goenergea.co	m	
Dongor	见第十四部分。		
Classification of	See section 14. 风笛十四部分		
Danger 危险性类别 Primary Route(s)	Eye, skin contact, ingestion	Ì	
危险性类别	Eye, skin contact, ingestion 眼睛,皮肤接触,摄入。	<u></u>	
危险性类别 Primary Route(s) of Exposure	Eye, skin contact, ingestion 眼睛,皮肤接触,摄入。 The batteries are not hazar manufacturer under normal fire, heat, leakage of interna including but not limited to t	dous when used accordin conditions. In case of ab al components, which cou the following cases: charg	use, there's Hazard of rupture, Id cause casualty loss. Abuses
危险性类别 Primary Route(s) of Exposure 浸入途径 Health Hazard	Eye, skin contact, ingestion 眼睛,皮肤接触,摄入。 The batteries are not hazar manufacturer under normal fire, heat, leakage of interna including but not limited to to put into fire, whacked with H broken. 正常条件下根据制造商的说 起火、发烫、内部成分泄漏	dous when used accordin conditions. In case of ab al components, which cou the following cases: charg nard object, punctured wit 明使用电池不会产生危害。 的危险,并可能造成意外者	use, there's Hazard of rupture, ld cause casualty loss. Abuses ed for long time, short circuited, h acute object, crushed, and , 使用不当的情况下,有破裂、 员失。使用不当的行为包括但不
危险性类别 Primary Route(s) of Exposure 浸入途径 Health Hazard	Eye, skin contact, ingestion 眼睛,皮肤接触,摄入。 The batteries are not hazar manufacturer under normal fire, heat, leakage of interna including but not limited to to put into fire, whacked with H broken. 正常条件下根据制造商的说 起火、发烫、内部成分泄漏	dous when used accordin conditions. In case of ab al components, which cou the following cases: charg nard object, punctured wit 明使用电池不会产生危害。 的危险,并可能造成意外者	use, there's Hazard of rupture, ld cause casualty loss. Abuses ed for long time, short circuited, h acute object, crushed, and 使用不当的情况下,有破裂、

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		formation on Ingredients	
第三部分 成分			
Li-ion Battery (Con 锂离子电池(包含在			
Chemical Name 化学名称		Concentration or concentration ranges (%) 浓度或浓度范围(%)	CAS Number CAS 号(化学文摘索引登记号)
Lithium Cobalt Oxio 钴酸锂	de	30-60	12190-79-3
<b>Graphite</b> 石墨		10-30	7782-42-5
Phosphate(1-), hex 六氟磷酸锂	afluoro-, lithium	10-30	21324-40-3
Copper 铜		5-10	7440-50-8
Aluminum foil		1-5	7429-90-5
铝箔			
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危障 Note: CAS number is 注意: CAS 号是化学文	rd phrase are requi 佥短语。 Chemical Abstract	1-5 ired. t Service Registry Number.	7440-02-0
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危险 Note: CAS number is 注意: CAS 号是化学文 N/A=Not apply.	rd phrase are requi 佥短语。 Chemical Abstract	ired.	7440-02-0
Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危障 Note: CAS number is 注意: CAS 号是化学了 N/A=Not apply. N/A=不适用。 Section 4- Fire	rd phrase are requi <sup>金短语。</sup> Chemical Abstract 文摘服务注册号码。 <b>st Aid Meas</b> t	ired. t Service Registry Number.	7440-02-0
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危限 Note: CAS number is 注意: CAS 号是化学文 N/A=Not apply. N / A =不适用。	rd phrase are requi <sup>金短语。</sup> Chemical Abstract 文摘服务注册号码。 st Aid Measu 女措施 Flush eyes and lower of	ired. t Service Registry Number. JITES s with plenty of water for at least 15 eyelids. Get medical aid. 立即用大量的清水冲洗至少 15 分钟	7440-02-0   minutes, occasionally lifting the upper   minutes, occasionally lifting the upper   m, 翻起上下眼睑, 直到化学的残留物
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危障 Note: CAS number is 注意: CAS 号是化学文 N/A=Not apply. N / A =不适用。 Section 4- Fire 第四部分 急求	rd phrase are requi <sup>金</sup> 短语。 Chemical Abstract 文摘服务注册号码。 st Aid Measu 女措施 Flush eyes and lower of 万一接触, 消失为止, Remove co minutes. G	ired. t Service Registry Number. JITES s with plenty of water for at least 15 eyelids. Get medical aid. 立即用大量的清水冲洗至少 15 分有 迅速就医。	minutes, occasionally lifting the uppe 中,翻起上下眼睑,直到化学的残留物 with plenty of water or shower for 15
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危障 Note: CAS number is 注意: CAS 号是化学了 N/A=Not apply. N / A =不适用。 Section 4- Fir 第四部分 急求 Eye 眼睛 Skin 皮肤 Inhalation	rd phrase are requi <sup>金短语。</sup> Chemical Abstract 文摘服务注册号码。 st Aid Measu 女措施 Flush eyes and lower of 万一接触, 消失为止, Remove cominutes. G 万一接触,	ired. t Service Registry Number. JITES with plenty of water for at least 15 eyelids. Get medical aid. 立即用大量的清水冲洗至少 15 分钟 迅速就医。 ontaminated clothes and rinse skin iet medical aid. 用大量水冲洗至少 15 分钟,同时降	minutes, occasionally lifting the uppe m, 翻起上下眼睑,直到化学的残留物 with plenty of water or shower for 15 涂去污染的衣物和鞋子,迅速就医。 immediately. Use oxygen if available
Nickel 镍 Labeling according to 标签根据 EC 指令。 No symbol and Haza 不需要象形符号和危障 Note: CAS number is 注意: CAS 号是化学了 N/A=Not apply. N / A = 不适用。 Section 4- Fir 第四部分 急求 <i>Eye</i> 眼睛	rd phrase are requi <sup>金</sup> 短语。 Chemical Abstract 文摘服务注册号码。 st Aid Measu <u>女措 施</u> Flush eyes and lower of 万一接触, 消失为止, Remove co 所一接触, 消失为止, Remove fro 立即从暴露 Ingesting of medical att	ired. t Service Registry Number. JITES with plenty of water for at least 15 eyelids. Get medical aid. 立即用大量的清水冲洗至少 15 分年 迅速就医。 ontaminated clothes and rinse skin tet medical aid. 用大量水冲洗至少 15 分钟,同时P om exposure and move to fresh air 较移至空气清新处,如果呼吸困难	minutes, occasionally lifting the uppe m,翻起上下眼睑,直到化学的残留物 with plenty of water or shower for 15 除去污染的衣物和鞋子,迅速就医。 immediately. Use oxygen if available 给予输氧,立即就医。 omiting or give food or drink. Seek

Section 5 Eiro E			Material Safety Data She
	ighting Measures		
第五部分 消防措			
Characteristics of Hazard	Dusts at sufficient concent generates toxic fumes.	trations can form explosive n	nixtures with air. Combustic
危险特性	•	暴炸性混合物。燃烧生成有毒;	烟雾。
Hazardous	Carbon dioxide.		
Combustion	二氧化碳。		
Products			
燃烧产生的危险物			
Fire-extinguishing	For small fires, use water :	spray, dry chemical, carbon o	dioxide or chemical foam.
Methods and		仓,干冰(也就是液态二氧化	
Extinguishing Media			
灭火方法及灭火剂			
Attention in	Wear self-contained breat	hing apparatus in pressure-d	emand, MSHA/NIOSH
Fire-extinguishing	(approved or equivalent) a	and full protective gear.	
灭火注意事项	因为压强关系,要穿戴可吗 以及佩戴全套防护装置。	乎吸式全身防护装备,MSHA/	NIOSH(经认证或等效的)
	以及兩類主要的扩衣直。		
第六部分 泄露应	ental Release Measu 急处理	In case of rupture. Attent	
Personal Precaution equipment, and em 个人预防措施、防护	ergency procedures	adequate ventilation. Use equipment as required. E areas. Keep people away spill/leak. Refer to protect Sections 7 and 8. 万一破裂。注意!腐蚀性 衣服。确保空气流通。根 人员撤离到安全区域。让 逆风。参考第七部分和第	vacuate personnel to safe y from and upwind of tive measures listed in 物质。避免接触皮肤,眼睛耳 据需要使用个人防护装备。 人们远离溢出/泄漏处和处于 八部分中列出的防护措施。
		Prevent product from cor	ntaminating soil and from ways.
Environmental Prec 环境保护措施	cautions	entering sewers or water 防止产品污染土壤和进入	
环境保护措施	cautions	entering sewers or water 防止产品污染土壤和进入 Stop the leak if safe to do liquid with dry sand or ea immediately.	o so. Contain the spilled

l.

	检测 RE TECHNOLOGY	_	Material Safety Data Shee
Section 7- Handling 第七部分 操作处置			
Handling 操作		c t F J	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high emperatures. Do not short or install with incorrect polarity. 斥解、挤压、直接放入火中或高温条件下,电池可能发 主爆炸和燃烧。禁止短路或将电池正负极错误的安装在 设备中。
Storage 储存	»)		Store in a cool, dry, well-ventilated area away from ncompatible substances. Store locked up. Keep out of the reach of children. 诸藏于阴凉,干燥,通风处,远离接触会发生反应的材 卧。存储锁定。放在儿童无法接触的地方。
Other Precautions 其他要注意的防范措施		i V E	n case of rupture. Handle in accordance with good ndustrial 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。
	*)	-(26)	
第八部分 接触控制和	和个休防护		
<u>お八市のゴ女地的工です</u> Engineering Controls 工程控制			Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed.
Engineering Controls		<b>S</b>	concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed.
Engineering Controls			concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed. 保证空气流通使空气密度保持在低水平。如果在会生成 微粒的情况下使用,应仔细观察 3mg/m <sup>3</sup> ACGIH TLV-TWA 3 的吸入量(总量为 10mg/m <sup>3</sup> )。 Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.
Engineering Controls			concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed. 保证空气流通使空气密度保持在低水平。如果在会生成 微粒的情况下使用,应仔细观察 3mg/m <sup>3</sup> ACGIH TLV-TWA 3 的吸入量(总量为 10mg/m <sup>3</sup> )。 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。 Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.
Engineering Controls 工程控制			concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed. 保证空气流通使空气密度保持在低水平。如果在会生成 微粒的情况下使用,应仔细观察 3mg/m <sup>3</sup> ACGIH TLV-TWA 3 的吸入量(总量为 10mg/m <sup>3</sup> )。 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。 Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear orotective gloves and protective clothing. 皮肤和身体防护:消费者无需使用。如果有接触危险:

TESTIN	」 <b>测检测</b> g CENTRE TECHNOLOGY	
		Material Safety Data Sheet
Section 9- Phys 第九部分 理化特	ical and Chemical Properties <sup></sup> 持性	
	Appearance: Prismatic 外形:棱柱形	
Physical State 物理状态	Color: Black And White 颜色:黑色和白色	
	Odour: If leaking, smells of medical ether. 气味:泄漏时, 医用乙醚的气味。	
Change in conditio	n:	
变化的条件:		
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。	S
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。	KO K
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。	

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 应避免的条件	Exposure to air or moisture over prolonged periods. 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 有危害分解物	Carbon oxides. 二氧化碳。

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第十一部分 毒理学信息 Irritation 刺激	K	fumes may be very i 内部物质暴露的情况	sure to internal contents, vapou rritating to the eyes and skin. 下, 蒸汽烟雾可能对眼睛和皮朋
Sensitization 致敏	Ś	刺激性。 Not Available. 不适用。	Ś
Reproductive Toxicity 再生毒性	(	Not Available. 不适用。	
Toxicologically Synergistic Ma 协同材料毒理学	terials	Not Available. 不适用。	
Section 12-Ecological Info 第十二部分 生态学信息	ormation		
General note: 通用信息:		to reach ground was system.	ed product or large quantities of er, water course or sewage 的产品接触地下水、水道或污水
Anticipated behavior of a cher in environment/possible enviro impact/ ecotoxicity 化学产品在环境/可能的环境预 种生态毒性	onmental	Not Available. 不适用。	
	(	C)	
Section 13 – Disposal Co 第十三部分 废弃处置	nsiderations		
Waste Treatment 废弃处置方法		government, state &	of in accordance with local regulations. f法规处置或再利用。
Attention for Waste Treatment 废弃注意事项		trash. Shouldn't be temperature. Shoul crushed or treated s recycling. 废电池不能被当作普	shouldn't be treated as ordinary thrown into fire or placed in hig dn't be dissected, pierced, similarly. Best disposal method 通道垃圾。不能扔进火中或置于 ]穿,破碎或类似的处理。最好

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	formation
第十四部分 运输信息 UN number 联合国货物编号(UN 编号)	3480
Proper shipping name 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)
UN Classification (Transport hazard class): UN 分类(运输危险类别):	Class 9 (Pl965 Section IB) 9 类 (包装说明 965 第 IB 部分)
PG Packing Group: PG 包装等级:	N/A 不适用
Marine pollutant(Y/N): 海洋污染物(Y/N):	NG) (G)
IMDG EmS No.: IMDG EmS 编号:	F-A, S-I
connection with transport or c	user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises. 运输方式,用户都需要注意或遵守的特殊预防措施。
ICAO / IATA: 国际民间航空组织/国际航空 运输协会 <b>:</b>	Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instruction 965 Section IB appropriate of IATA DGR 65 <sup>th</sup> (2024 Edition) for transportation. 货物可根据民用航空组织(ICAO), TI 或国际航空运输协会(IATA), DG 65 <sup>th</sup> (2024 版) 包装说明 965 Section IB 相关规定进行空运。
IMDG CODE: 国际海运危险货物规则:	The batteries are not restricted to IMDG Code 2022 Edition (Amdt 41-22) according to special provision 188. 根据特殊规定 188,该电池不受 IMDG Code 2022 版(Amdt 41-22)限制。
	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
DOT:	49 CFR 173.185。

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

TCT 通测检测 TESTING CENTRE TECHNOLOG

## MSDS creation date: 2024 Version: 1.0

Sample photo 样品照片:



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本份 MSDS 中的信息只是基于我们当前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 data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

End of report \*\*\*报告结束\*\*

本文所包含的数据/信息已经过审核和批准,但本文档不包含出口管制信息。

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