

材 料 安 全 数 据 表 Material Safety Data Sheet

报告编号:

BCTC2412233776B

Report No:

委托单位:

深圳市永泰源电子科技有限公司

Applicant

INTERMED DISTRIBUTION

产品名称:

锂离子电池组

Product Name:

Lithium ion battery pack

产品型号:

18650-1S2P

Test Model:

2024-12-19

签发日期: Issued Date:

(生效日期 Effective Date:2025-01-01)

编

制:

Roken Sun

Prepared By:

批

准:

Approved By:

Andre Yn



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



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 clients request.	
第一部分-化学品及企业标识	
Section 1-Chemical Product and Company Identification	
产品名称 锂离子电池组	
Product Name	Lithium ion battery pack
型号	18650-1S2P
Model/Type Reference	10030-132F
商标	NI/A
Trademark	N/A
额定参数	3.6V, 6400mAh, 23.04Wh
Ratings	3.6V, 040011A11, 23.04W11
重量	大约 100.2g
Weight	About 100.2g
制造商	深圳市永泰源电子科技有限公司
Manufacturer	INTERMED DISTRIBUTION
制造商地址 Address	540 AVENUE DES LANDES DU CASSANTIN - 37210 PARÇAY-MESLAY - FRANCE
应急电话 Emergency Telephone	+33-247565544

第二部分-成分信息

	Section 2- Composition Information		
化学成分 Chemical Composition	CAS号 CAS No.	含量(%) Weight (%)	商业机密 Trade Secret
钴酸锂 Lithium cobaltate	12190-79-3	15-40	•
石墨 Graphite	7782-42-5	10-30	\
六氟磷酸锂 Phosphate(1-), hexafluoro-, lithium	21324-40-3	10-30	
铜 Copper	7440-50-8	7-13	
铝 Aluminium	7429-90-5	5-10	NNN : /////
镍 Nickel	7440-02-0	1-5	

[&]quot;*"准确的百分比(浓度)的构成已经作为商业机密。

第三部分-危险性概述

Section 3- Hazards Identification

紧急情况概述	不适用	
Emergency overview:	N/A	
GHS分类	不属于GHS危险物品	
Classification according to	Not a dangerous substa	ance according to GHS
GHS		

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[&]quot; * " The exact percentage (concentration) of composition has been withheld as a trade secret.



工 经田		
不适用		
No available		
不适用		
No available		
不适用		
No available		
不适用		
No available		
不适用		
No available		
不适用		
No available		
无相关信息		
No relevant information		
见第11部分更多信息		
See section 11 for more information		
第四部分-急救措施		
Section 4- First Aid Measures		
万一接触,立即用大量的清水冲洗至少15分钟,翻起上下眼脸,直到化学的残留物		
消失为止,迅速就医。		
Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper		
and lower eyelids. Get medical aid.		
万一接触,用大量的水冲洗至少15分钟,同时除去污染的衣物和鞋子,迅速就医。		
Remove contaminated clothes and rinse skin with plenty of water or shower for 15		
minutes. Get medical aid.		
立即从暴露处移至空气清新处,如果呼吸困难给予输氧,立即就医。		
Remove from exposure and move to fresh air immediately. Use oxygen if available		
饮用两杯牛奶或水,如果当事人仍然清晰可以采取催吐的方法,并且立即就医。		
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		
不适用		
N/A \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
不适用		
N/A \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
水,二氧化碳		
H ₂ O, CO ₂		
自给式呼吸器		
Self-contained breathing apparatus		
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		

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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.
	第六部分─泄露应急处理
个人预防措施、保护设备和应 急程序 Personal precautions, protective equipment and emergency procedures	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。 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 up	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。标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 and rules, Avoid leached substances to get into the earth, canalization or waters.
	第七部分-操作处置和储存
	Section 7- Handling and Storage
操作处置 Handling	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。 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.
	第八部分-接触控制和个体防护

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Sect	tion 8- Exposure Controls/Personal Protection
设计控制 Engineering Controls	设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
个人防护装备 Personal Protective Equipment	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 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.
其它防护装备 Other Protective Equipment	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 work area.
卫生措施 Hygiene Measures	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.
s	第九部分-物理和化学特性 ection 9- Physical and Chemical Properties
形态	固体
Form	Solid
颜色	紫色
Color	Purple
气味	不适用
Odour	No available
酸碱度	不适用
pH	No available
熔点/凝固点	不适用 No available
Melting point/freezing point 沸点、沸点范围:	No available
ਲਿਲ ਨਾਲ ਪੁਰਤ: Boiling Point and Boiling range	不适用 No available
易燃度	不适用
Flash Point	No available
自燃或爆炸的上、下极限 Upper/lower flammability or explosive limits	不适用 No available
蒸汽压	不适用
Vapor Pressure	No available
蒸汽密度	不适用
Vapor Density	No available

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相对密度	不适用	
Relative density	No available	
水溶性	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	
	-	
产源4.44	加热 70°C 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	湿的条件下。	
Conditions to Avoid	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble,	
	Overcharge, Short circuit, Expose over a long period to humid conditions.	
不兼容的材料 氧化剂,酸,碱。		
Incompatible Materials	Oxidizing agents, acid, base.	
危险分解物	一氧化碳、二氧化碳、氧化锂烟雾。	
Hazardous Decomposition		
Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
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	
刺激	生这种情况,可能会刺激皮肤、眼睛和呼吸道。	
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically	
intation	abused to the point of compromising the enclosure. If this occurs, irritation to the	
	skin, eyes and respiratory tract may occur.	
致过敏	不适用	
Sensitization	Not Available	
影响神经系统	不适用	
Neurological Effects	Not Available	
致畸	不适用	
X呵 Teratogenicity	Not Available	
再生毒性	不适用	
Reproductive Toxicity	Not Available	
诱变(遗传效应)	不适用	
Mutagenicity (Genetic	Not Available	

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Effects)	
附带材料毒理性 Toxicologically Synergistic Materials	不适用 Not Available
wateriais	第十二部分-生态学资料
	Section 12- Ecological Information
	不适用
Ecological Toxicity	Not Available
在土壤中的流动性	不适用
Mobility in soil	Not Available
持久性和分解性	不适用
Persistence and	Not Available
Degradability	
生物聚积	不适用
Bioaccumulation potential	Not Available
其他不利影响	不适用
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 recommendation	Observe local, state and federal laws and regulations.
包装处理建议	
Packaging disposal	废弃处理必须根据当地法规
recommendation	Disposal must be made according to official regulations
	第十四部分−运输信息
	Section 14 – Transport Information
UN编号 UN Number	UN 3480 or UN 3481
联合国运输专用名称	PI965 Lithium ion Batteries
以 Proper shipping name	PI966 Lithium ion Batteries packed with equipment
	PI967 Lithium ion Batteries contained in equipment
包装说明 Packing Instructions	9
空运	IATA第66版DGR手册
Air	IATA DGR Manual 66th
海运 S oo	海运危险货物规则(Amdt. 42-24)的特殊规定188 IMDG CODE(Amdt. 42-24)SP188
Sea	国际危险货物道路运输协定
道路运输 Road	ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
铁路运输 Railway	国际危险货物铁路运输协定 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

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电池已通过 UN38.3 测试。

Battery are tested and has passed in accordance with UN38.3.

单独的锂离子电池在运输中应防止短路。他们应该在运输期间用坚固的包装来固定,确保货物不会倾斜,掉落和破损,防止货物倒塌和被雨水浸湿。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

第十五部分 法规信息

Section 15- Regulatory information

《危险物品规则》《Dangerous Goods Regulations》

《对危险货物运输的有关规定的建议》《Recommendation on the Transport of Dangerous Goods Model Regulations》

《国际海运危险货物规则》《International Maritime Dangerous Goods》

《危险品安全运输技术指令》《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险货物分类和品名编号》《Classification and code of dangerous Goods》

《职业安全卫生法》《Occupational Safety and Health Act》(OSHA)

《有毒物质控制法》《Toxic Substance Control Act》(TSCA)

《消费产品安全法》《Consumer Product Safety Act》(CPSA)

《联邦环境污染控制法》《Federal Environmental Pollution Control Act》(FEPCA)

《石油污染控制法》《The Oil Pollution Act》(OPA)

《超级基金修正案和再授权法案III(302/311/312/313)》《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》(SARA)

《资源保护及恢复法案》《Resource Conservation and Recovery Act》(RCRA)

《安全饮用水法》《Safety Drinking Water Act》(CWA)

《加州65提案》《California Proposition 65》

《美国联邦法规》《Code of Federal Regulations》(CFR)

第十六部分-其它信息

Section 16- Other Information

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.

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STATEME

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。

BCTC 倍测检测

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.

地 址/Address:广东省深圳市宝安区福海街道展城社区福园一路158号鹏洲工业园B号厂房1层2层

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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> ****** 结束 ****** ****** END ******

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