



SDS Report

委托方 Client	深圳市劲品能电子有限公司 Shenzhen Jinpinneng Electronics Co., Ltd.
委托方地址 Add. of Client	深圳市龙岗区龙岗街道南联社区鹏达路 138 号 No.138, Pengda Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen
样品名称 Sample Name	锂离子电池 Li-ion Battery
样品型号 Sample Model	902040
标称电压 Nominal voltage	3.7V
额定容量 Rated capacity	700mAh, 2.59Wh
样品重量 Sample Mass	13.5g
样品尺寸 Sample Size	(40.3×19.8×9.0)mm
参考标准 Reference Standard	ST/SG/AC.10/30/Rev.11 (GHS)
编制单位 Prepared by	诺诚安全检测（深圳）有限公司 Nuocheng Safety Testing (Shenzhen) Co., Ltd. 广东省深圳市宝安区福永街道凤凰社区第三工业区厂房 A 栋 1-2 层 1-2/F., No.A Building, The Third Industrial Zone, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen, Guangdong, China
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Seal of

检验检测专用章

安全技术说明书 Safety Data Sheet

第一部分 产品及企业标识

Section 1 - Product & Company Identification

样品名称 Sample Name	锂离子电池 Li-ion Battery
样品型号 Sample Model	902040
推荐用途 Recommended use	/
限制用途 Restricted use	/
制造商 Manufacturer	深圳市劲品能电子有限公司 Shenzhen Jinpinneng Electronics Co., Ltd.
地址 Address	深圳市龙岗区龙岗街道南联社区鹏达路 138 号 No.138, Pengda Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen
工厂 Factory	深圳市劲品能电子有限公司 Shenzhen Jinpinneng Electronics Co., Ltd.
地址 Address	深圳市龙岗区龙岗街道南联社区鹏达路 138 号 No.138, Pengda Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen
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第二部分 危险性概述

Section 2 - Hazard Identification

主要危险性 Main Hazards	本品不在 GHS 体系涵盖的范围内。 The product is outside of the scope of GHS system.
火灾或爆炸危险 Fire or Explosion Hazards	当电池损坏或处理不当（机械损伤或过度充电），其内部的易燃液态电解质在温度高于 150°C 时会泄漏、着火和产生火花；该类物品可能迅速燃烧并伴有闪燃；可能会引燃邻近的其他电池。 Battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150°C), when damaged or abused (e.g., mechanical damage or electrical overcharging). May burn rapidly with flare-burning effect. May ignite other batteries in close proximity.

健康危害 Health Hazards	电池的电解质会刺激皮肤、眼睛和黏膜组织。燃烧可能产生刺激性、腐蚀性和/或毒性气体。烟雾可能导致头晕或窒息。 Contact with battery's electrolyte may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.
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第三部分 成分/组成的信息**Section 3 – Composition/Information on Ingredients**

化学名称 Chemical Name	含量 (%) Concentration (%)	CAS 号 CAS Number
钴酸锂 Lithium Cobalt Oxide	35-38	12190-79-3
石墨 Graphite	20-22	7782-42-5
铜 Copper	9-10	7440-50-8
铝 Aluminum	5-6	7429-90-5
碳酸乙烯酯 Ethylene carbonate	14-16	96-49-1
聚丙烯 Polypropylene	5-6	9003-07-0
碳酸甲乙酯 Carbonate, methyl ethyl	4-5	623-53-0
六氟磷酸锂 Phosphate(1-), hexafluoro-, lithium	5-6	21324-40-3

第四部分 急救措施**Section 4 - First Aid Measures**

皮肤接触 Skin contact	若接触到电池内的物质, 脱去受污染的衣物和鞋袜, 立即用流动清水冲洗 20 分钟以上。如刺激持续, 请立即就医。 If in contact with the internal materials of battery, remove the contaminated clothing, shoes and socks, immediately flush with plenty of water for at least 20 minutes. If irritation persists, call a physician.
眼睛接触 Eye contact	若接触到电池内的物质, 立即提起眼睑, 用流动清水冲洗 20 分钟以上。如刺激持续, 请立即就医。 In case of the internal battery's materials in contact with eyes, lift your eyelids immediately and rinse them with running water for more than 20 minutes. If irritation persists, call a physician.
吸入 Inhalation	移除污染源或者将受害者移至新鲜空气处。寻求医生建议。 Remove source of contamination or move victim to fresh air. Obtain medical advice.

食入 Ingestion	若食入电池内的物质，禁止催吐。立即就医。 If swallowed the internal battery's materials, do not induce vomiting. Call a physician immediately.
最重要的急性和延迟症状/影响 Most Important Symptoms/ Effects, Acute and Delayed	无数据可提供。 No data is available
必要时注明立即就医及所需的 特殊治疗 Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary	无数据可提供。 No data is available

第五部分 消防措施**Section 5 - Fire Fighting Measures**

适当的灭火剂 Suitable Extinguishing Media	可用大量的水和水基灭火器。 A large amount of water and water-based fire extinguishers can be used.
化学品产生的具体危险 Specific Hazards Arising from the Chemical	燃烧可能产生刺激性、腐蚀性和或毒性气体。烟雾可能导致头晕或窒息。 May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.
消防人员的特别防护行动 Special Protective Action for Fire-fighters	消防员应戴自给正压式呼吸器，穿消防防护服以防止皮肤和眼睛接触。在上风处灭火。不相关人员疏散至安全区域。 Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

第六部分 泄漏应急措施**Section 6 - Accidental Release Measures**

个人防护措施、防护设备和应 急程序 Personal Precautions, protective equipment, and emergency procedures	使用个人防护设备。确保足够的通风。确保人群远离泄漏区或处于泄漏区上风向。不相关人员禁止进入。移除所有点火源。 Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non involved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.
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环境防护措施 Environmental Precautions	避免泄漏物进入地表、沟渠或水域。清洗废水避免直接释放至环境中。 Avoid leakage enter the earth, ditches or waters. Avoid directly release the cleaning waste water into the environment.
控制和清洁的方法和材料 Methods and Materials for Containment and Cleaning up	如电解液泄漏, 用土、沙或其他不可燃材料吸附, 漏损的电池和污浊的吸附物应放入金属容器。 If the electrolyte leaks, use soil, sand or other non-combustible materials to absorb. The leaked batteries and dirty adsorbents should be placed in metal containers.

第七部分 操作处置与储存**Section 7 - Handling and Storage**

安全操作的防护措施 Precautions for Safe Handling	操作人员应经过培训, 严格遵守操作规程。建议操作人员穿一般作业防护服, 戴安全手套。远离火种、热源。避免高温。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池和弄错正负极。须牢固在内包装中, 以有效防止短路和防止可导致短路的移动。万一电池内的物质泄漏, 避免眼睛、皮肤直接接触, 避免吸入。应与强氧化剂、易燃物和其它腐蚀品分开存放。 Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Avoid disassembling the battery at will and reversing battery polarity within the battery assembly. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. In case of leakage of the material in the battery, avoid directly contact with eyes and skin. Avoid inhalation. It should be stored separately from strong oxidizing agents, combustible materials and corrosives.
安全储存的条件, 包括一切不相容性 Conditions for Safe Storage, Including any incompatibilities	储存于阴凉、通风及干燥的库房内。远离火种、热源。避免高温。应与强氧化剂、易燃物和其它腐蚀品分开存放。须牢固在内包装中, 以有效防止短路和防止可导致短路的移动。储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适的收容材料。 Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame. It should be stored separately from strong oxidizing agents, combustible materials and corrosives. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to

short circuits. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

第八部分 接触控制/个人防护
Section 8 - Exposure Controls/Personal Protection

控制参数 Control Parameters	职业接触限值 Occupational Exposure Limit, OEL	无相关规定 No relevant regulations
	生物限值 Biological limit values	无相关规定 No relevant regulations
	预测的无效应浓度 Predicted No Effect Concentration (PNEC)	无相关规定 No relevant regulations
	衍生的无效应水平 Derived No effect level, DNEL	无相关规定 No relevant regulations
适当的工程控制 Appropriate Engineering Controls	有通风系统和设备。提供安全淋浴和洗眼设备。 Mechanical exhaust required. Safety shower and eye bath.	
个人防护措施 Individual Protection Measures	眼/面部防护 Eye/Face Protection	若需要，戴安全防护眼镜。 Wear chemical safety glasses if needed.
	皮肤防护 Skin Protection	手防护：戴安全手套。 身体防护：穿一般作业防护服。 Body Protection: Wear appropriate protective clothing.
	呼吸系统防护 Respiratory Protection	若需要，戴管理部门认可的面罩。 Wear government approved respirator if needed.
	其他防护 Other Protect	工作现场严禁吸烟、进食和饮水。工作后，淋浴更衣。 No smoking, drinking and eating at working site. Wash thoroughly after handling.

第九部分 理化特性

Section 9 - Physical and Chemical Properties

物理状态 Physical State	固体 Solid
颜色 Colour	银色 Silver
气味 Odour	正常情况下，无气味。 Odorless under normal conditions.
熔点/凝固点 Melting Point/Freezing Point	无数据可提供。 No data is available
沸点、初始沸点和沸程 Boiling Point, Initial Boiling Point and Boiling Range	无数据可提供。 No data is available
易燃性 Flammability	无数据可提供。 No data is available
燃烧上下极限或爆炸极限 Lower/Upper Explosion Limit/Flammability Limit	无数据可提供。 No data is available
闪点（闭杯） Flash Point (Closed Cup)	不适用。 Not applicable
自燃温度 Auto-ignition Temperature	无数据可提供。 No data is available
分解温度 Decomposition Temperature	无数据可提供。 No data is available
pH 值 pH Value	无数据可提供。 No data is available
运动黏度 Kinematic Viscosity	无数据可提供。 No data is available
溶解性 Solubility	无数据可提供。 No data is available
n-辛醇/水分配系数（对数值） Partition Coefficient N-Octanol/Water (Log Value)	无数据可提供。 No data is available
蒸气压 Vapour Pressure	无数据可提供。 No data is available
密度/相对密度	无数据可提供。

Density/Relative Density	No data is available
相对蒸气密度	无数据可提供。
Relative Vapor Density	No data is available
颗粒特征	无数据可提供。
Particle Characteristics	No data is available

第十部分 稳定性和反应性
Section 10 - Stability and Reactivity

反应性	无数据可提供。
Reactivity	No data is available
化学稳定性	常温常压下稳定。
Chemical Stability	Stable under normal temperatures and pressures.
危险反应的可能性	无数据可提供。
Possibility of Hazardous Reactions	No data is available
应避免的条件	误操作，明火，高温，机械滥用，过充电，防止短路和防止可导致短路的移动。 Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge. Prevent short circuits. Prevent movement which could lead to short circuits.
Conditions to Avoid	
不相容材料	强氧化剂、易燃物和其它腐蚀品。
Incompatible Materials	Strong oxidizing agents, Combustible materials and Corrosives.
危害性分解产物	碳的氧化物、金属氧化物等。
Hazardous Decomposition Products	Carbon oxides, metal oxides, etc.

第十一部分 毒理学信息
Section 11 - Toxicological Information

急性毒性	无数据可提供。
Acute Toxicity	No data is available
皮肤腐蚀/刺激	电池内的电解液对皮肤有刺激性。
Skin Corrosion/Irritation	The electrolyte in the battery causes skin irritation.
严重眼损伤/眼刺激	电池内的电解液对眼睛有刺激性。
Serious Eye Damage/Irritation	The electrolyte in the battery causes eye irritation.
呼吸致敏	无数据可提供。

Respiratory Sensitization	No data is available
皮肤致敏	无数据可提供。
Skin Sensitization	No data is available
生殖细胞致突变性	无数据可提供。
Germ Cell Mutagenicity	No data is available
致癌性	无数据可提供。
Carcinogenicity	No data is available
生殖毒性	无数据可提供。
Reproductive Toxicity	No data is available
特定目标器官毒性-单次接触	无数据可提供。
Specific Target Organ Toxicity -Single Exposure	No data is available
特定目标器官毒性-重复接触	无数据可提供。
Specific Target Organ Toxicity -Repeated Exposure	No data is available
吸入危险	无数据可提供。
Aspiration Hazard	No data is available

第十二部分 生态学信息
Section 12 - Ecological Information

生态毒性	无数据可提供。
Ecotoxicity	No data is available
持久性和降解性	无数据可提供。
Persistence and Degradability	No data is available
潜在的生物累积性	无数据可提供。
Bioaccumulative Potential	No data is available
在土壤中的流动性	无数据可提供。
Mobility in Soil	No data is available
其他有害效应	无数据可提供。
Other Adverse Effects	No data is available

第十三部分 废弃处置
Section 13 - Disposal Considerations

废弃处置方法	建议遵照国家和地方法规处置或再利用。
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Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.
废弃注意事项 Attention for Waste Treatment	废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体，刺穿，破碎或类似的处理。最好的办法是回收利用。 Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

第十四部分 运输信息**Section 14 - Transport Information**

联合国货物编号 (UN 编号) UN number	3480 or 3481
运输专用名称 Proper shipping name	锂离子电池 (包括锂离子聚合物电池) 或: Lithium ion batteries (including lithium ion polymer batteries) or; 锂离子电池与设备包装在一起 (包括锂离子聚合物电池) 或: Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or; 锂离子电池内置于设备中 (包括锂离子聚合物电池)。 Lithium ion batteries contained in equipment (including lithium ion polymer batteries).
危险品规则 DGR	可根据国际民用航空组织(ICAO)或国际航空运输协会(IATA) DGR 67 版 (2026)包装指令 PI965 IB、PI966 II 或 PI967 II 适当空运。 Can be shipped by air in accordance with International Civil Aviation Organization (ICAO) or International Air Transport Association (IATA) DGR 67 th Edition (2026) Packing Instructions Section IB of 965, Section II of 966 or Section II of 967 appropriately. 针对 PI965 IB: 荷电状态不得超过其额定容量的 30%，并粘贴 9 类电池标签、限货机标签和电池标记。 For PI965 IB: Limited to a maximum of 30% SoC, and paste Class 9—Batteries Label, Cargo Aircraft Only Label and Battery Mark. 针对 PI966 II: 超过 2.7Wh, 荷电状态不得超过其额定容量的 30%，粘贴电池标记。 For PI966 II: More than 2.7Wh, limited to a maximum of 30% SoC. Paste Battery Mark. 针对 PI967 II: 粘贴电池标记。 For PI967 II: Paste Battery Mark. UN 分类 (运输危险类别): 9 类危险品 (包装指令 965 第 IB 部分) 或不

	适用（包装指令 966~967 第 II 部分） UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI966~967 Section II) PG 包装等级: 不适用 PG Packing Group: N/A
国际海运危险货物规则 IMDG CODE	根据特殊规定 188, 该电池不受 IMDG Code 2024 版(Amdt 42-24)限制。 The batteries are not restricted to IMDG Code 2024 Edition (Amdt 42-24) according to special provision 188. 粘贴电池标记。 Paste Battery Mark. UN 分类（运输危险类别）：不适用 UN Classification (Transport hazard class): N/A PG 包装等级: 不适用 PG Packing Group: N/A 海洋污染物（Y / N）: N Marine pollutant (Y/N): N EmS 编号: F-A, S-I EmS No.: F-A, S-I
危险货物道路运输规则 Regulations concerning road transportation of dangerous goods	根据 JT/T 617.3-2018 特殊规定 188, 该电池不受 JT/T 617.1-2018~ JT/T 617.7-2018 限制。 The batteries are not restricted to JT/T 617.1-2018~JT/T 617.7-2018 according to special provision 188 of JT/T 617.3-2018. 粘贴电池标记。 Paste Battery Mark. UN 分类（运输危险类别）：不适用 UN Classification (Transport hazard class): N/A PG 包装等级: 不适用 PG Packing Group: N/A
危险货物国际道路运输欧洲 公约 ADR	根据 ADR 2025 特殊规定 188, 该电池不受限制。 The batteries are not restricted according to ADR 2025 special provision 188. 粘贴电池标记。 Paste Battery Mark. UN 分类（运输危险类别）：不适用 UN Classification (Transport hazard class): N/A PG 包装等级: 不适用 PG Packing Group: N/A
国际铁路危险货物运输规则	根据 RID 2025 特殊规定 188, 该电池不受限制。

RID	The batteries are not restricted according to RID 2025 special provision 188. 粘贴电池标记。 Paste Battery Mark. UN 分类（运输危险类别）：不适用 UN Classification (Transport hazard class): N/A PG 包装等级：不适用 PG Packing Group: N/A
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第十五部分 法规信息**Section 15 - Regulatory Information**

《关于危险货物运输的建议书 规章范本》

Recommendations on the Transport of Dangerous Goods-Model Regulations

《关于危险货物运输的建议书 试验和标准手册》

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

《危险品规则》

Dangerous Goods Regulations

《国际海运危险货物规则》

International Maritime Dangerous Goods Code

《危险货物道路运输规则》

Regulations Concerning Road Transportation of Dangerous Goods

《危险货物国际道路运输欧洲公约》

Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)

《国际铁路危险货物运输规则》

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)

《危险货物安全运输技术指南》

Technical Instructions for the Safe Transport of Dangerous Goods

《危险货物分类与代码》

Classification and Code of Dangerous Goods

《职业安全与健康法案》(OSHA)

Occupational Safety and Health Act (OSHA)

《有毒物质控制法》(TSCA)

Toxic Substance Control Act (TSCA)

《联邦环境污染控制法》 (FEPCA)

Federal Environmental Pollution Control Act (FEPCA)

《资源保护和恢复法案》(RCRA)

Resource Conservation and Recovery Act (RCRA)

《联邦条例》(CFR)

Code of Federal Regulations (CFR)

欧盟新电池法规(EU) 2023/1542

New EU Battery Regulations (EU) 2023/1542

美国交通部规定 49 CFR -173.185

US DOT Regulations 49 CFR -173.185

符合所有联邦、州和地方法律。

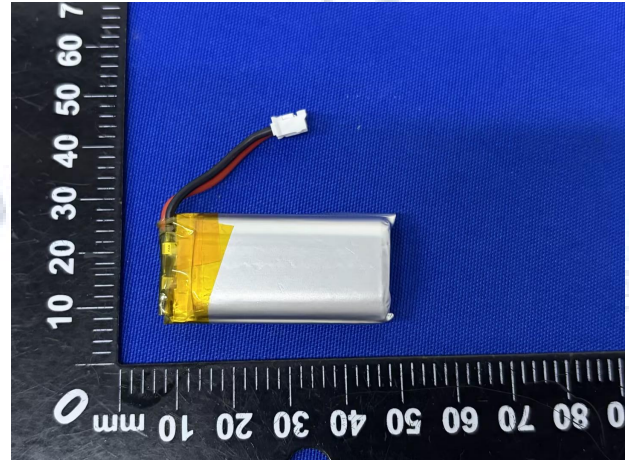
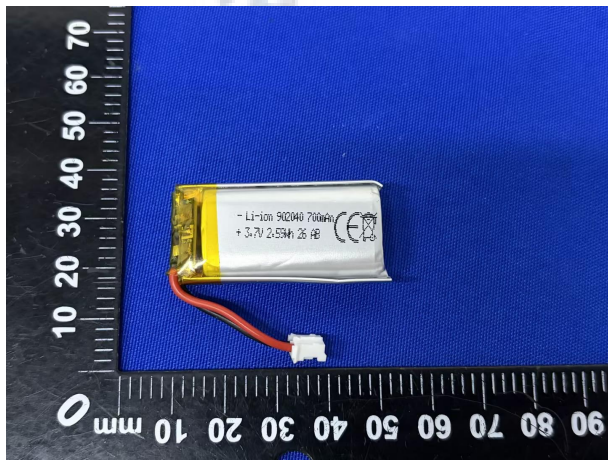
In accordance with all Federal, State and local laws.

第十六部分 其他信息

Section 16 - Other Information

编制日期 Preparation Date	2026.03.01
编制部门 Preparation Department	诺诚安全检测（深圳）有限公司 Nuocheng Safety Testing (Shenzhen) Co., Ltd.
版本信息 Revision Information	第 0 次修订 Revision 0
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