

广东产品质量监督检验研究院

GUANGDONG TESTING INSTITUTE OF PRODUCT QUALITY SUPERVISION

地址：广州市黄埔区科学大道 10 号

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Website: www.gqi.org.cn Postcode: 510670

No. JS20240104-008

Date: 2024-01-04

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MSDS Report

样品名称：聚合物锂离子电芯

Sample Name: Polymer Li-ion Cell

委托单位：广东嘉尚新能源科技有限公司

Applicant: Guangdong Cvasun New Energy Technology Co., Ltd



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物质安全资料表

Material Safety Data Sheet

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

第 1 部分-产品和公司标识

Product Name: Polymer Li-ion Cell

产品名称：聚合物锂离子电芯

Model Specification: 105555-5000mAh

型号规格：105555-5000mAh

Manufacture: Guangdong Cvasun New Energy Technology Co., Ltd

制造商：广东嘉尚新能源科技有限公司

Address: No.14 ShiChongheng Road, Shipai Town, Dongguan City, Guangdong Province

地址：广东省东莞市石排镇石崇横路 14 号

Post Code 邮政编码: 523342

Tel 电话: +86-0769-86651333

Emergency Telephone 紧急联系电话: +86-0769-86651333

Fax 传真: /

Email 邮箱: /

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.成分/成分信息

Chemical Name 化学名称	Chemical Formula 化学式	CAS No. CAS 号 (化学文摘索引登记号)	In % by Weight 质量占比%
镍钴锰酸锂 / Lithium nickel-cobalt manganese oxides	--	113066-89-0	25%-40%
石墨 / Graphite	C ₂₄ X ₁₂	7782-42-5	20%-30%
聚偏氟乙烯 / Polyvinylidene Fluoride (PVDF)	C ₂ H ₂ F ₂	24937-79-9	0.5%-1%
丁苯橡胶 / Styrene Butadiene Rubber (SBR)	C ₃₆ H ₄₂ X ₂	9003-55-8	0.5%-1%
铜箔 / Copper Foils	Cu	7440-50-8	7%-10%
铝箔 / Aluminum Foils	Al	7429-90-5	5%-8%
铝塑膜 / Aluminum packing foil	--	12042-91-0	2%-4%

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隔膜 / PE Separator	(C ₂ H ₄) _n	90989-93-8	1%-2%
镍 / Nickel	Ni	7440-02-0	0.5%-1%
六氟磷酸锂 / Lithium Hexafluorophosphate	LiPF ₆	21324-40-3	1%-3%
碳酸亚乙酯 / Ethylene carbonate	C ₃ H ₄ O ₃	96-49-1	2%-4%
碳酸二甲酯 / Dimelene carbonate	C ₃ H ₆ O ₃	616-38-6	2%-4%
碳酸甲乙酯 / EthylMethylCarbonate	C ₄ H ₈ O ₃	623-53-0	3-6%
其他 / Other	--	--	1-2%

3. HAZARDS IDENTIFICATION

3 危险识别

Health Hazards (Acute and Chronic)

健康危害（急性和慢性）

These Chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

这些化学品处于密封保存状态。仅在机械或电气滥用电池的情况下，才有暴露的危险。应避免皮肤和眼睛接触电解质和被挤压锂。

Sign/Symptoms of Exposure

暴露迹象/症状

A shorted battery can cause thermal and chemical burns upon contact with the skin. May be a reproductive hazard.

电池短路会在接触皮肤时引起热灼伤和化学灼伤。可能有生殖危险。

4. FIRST-AID MEASURES

4.急救措施

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately.

食入：请勿催吐或进食或喝水。请立即就医。

Inhalation: Provide fresh air and seek medical attention.

吸入：提供新鲜空气并就医。

Eyes contact: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

眼睛接触：立即用水冲洗至少 15 分钟，抬起上下眼睑，直到没有化学物质残留。就医。

Skin contact: Remove contaminated clothing and thoroughly wash with soap and plenty of water. If irritation persists, seek medical attention.

皮肤接触：脱掉被污染的衣服，用肥皂和大量的水彻底清洗。如果刺激持续，请就医。

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5. FIRE-FIGHTING MEASURE

5. 消防措施

Flash Point: N/A

闪点：不适用

Auto-Ignition Temperature: N/A

自燃温度：不适用

Extinguishing Media: Water, CO₂

灭火介质：水，二氧化碳

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

特殊消防措施：自给式呼吸器。

Unusual Fire and Explosion Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.

异常的火灾和爆炸危险：当电池暴露于过多的热量中时，电池可能会排气。

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

有害燃烧产物：一氧化碳，二氧化碳，氧化锂烟雾。

6. ACCIDENTAL RELEASE MEASURES

6. 泄漏应急处理

Steps to be Taken in case Material is Released or Spilled 物料泄漏或溢出时应采取的步骤

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can.

The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

如果释放了电池材料，请从区域移开人员，直到烟雾消散。提供最大的通风以清除有害气体。用布擦拭干净，然后将其放入塑料袋中并放入钢罐中。

首选的响应是离开该区域并让电池冷却并散发蒸汽。提供最大的通风。避免皮肤和眼睛接触或吸入蒸气。用吸收剂清除溢出的液体并焚化。

Waste Disposal method 废物处置方法

It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

建议将电池彻底放电，将废弃的电池统一交给相关部门，并按照当地，州和联邦的批准要求处理电池。请咨询州环境保护机构和/或联邦 EPA。

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7. HANDLING AND STORAGE

7.处理和储存

Storage: Do not place the cell or battery near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in shortened battery life and degrade performance.

Store in cool place (temperature: -20-20°C, humidity: 40-80%).

存放: 请勿将电芯或电池放置在加热设备附近,也不要长时间暴露在直射的阳光下。温度升高会导致电池寿命缩短并降低性能。

存放在阴凉处(温度: -20-20°C, 湿度: 40-80%)。

Mechanical Containment: If potting or sealing the cell or battery in an airtight or watertight container is required, consult your Micro Trading (Shanghai) Ltd Representative for precautionary suggestions. Do not obstruct safety release vents on cells. Encapsulation of batteries will not allow cell venting and can cause high pressure rupture.

机械密封: 如果需要将电芯或电池灌封或密封在气密或水密的容器中,请咨询 Micro Trading (Shanghai) Ltd 的代表以获得预防性建议。请勿阻塞电池上的安全释放孔。电池的封装将不允许电池排气,并可能导致高压破裂。

Handling: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material. Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids Packing material (recommended, not suitable): Insulative and tear proof materials are recommended.

The contents of a leaking cell, when exposed to water, may result in a fire and/or explosion. Crushed or damaged cells and batteries may result in a fire.

处理: 切勿将电池丢入火中或暴露于高温下。不要将细电芯浸入水和海水中。不要暴露于强氧化剂。请勿施加强烈的机械冲击或摔落。切勿拆卸,改装或变形。请勿使用导电材料将正极端子连接到负极端子。不兼容的产品: 导电材料,水,海水,强氧化剂和强酸包装材料(推荐,不合适): 建议使用绝缘和防撕裂材料。

泄漏的电池中的内容物暴露于水时,可能会导致起火和/或爆炸。电芯或电池粉碎或损坏可能会引起火灾

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. 暴露控制/个人防护

Engineering controls: Investigate engineering techniques to reduce exposures use with adequate ventilation and recommended personal protective equipment.

工程控制: 研究工程技术以减少暴露在适当的通风和建议的个人防护设备的使用。

Eye/Face protection: Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely wear chemical goggles and have eye flushing equipment available

眼睛/面部防护: 采取良好的工业措施,避免眼睛接触。该产品的加工过程中释放出蒸气或烟雾,可能引起眼睛刺激。可能与眼睛接触的地方戴化学防护眼镜并配备洗眼设备

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Skin protection: Minimize skin contamination by following good industrial hygiene practices. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

皮肤防护：遵循良好的工业卫生习惯，将皮肤污染降至最低。建议戴防护手套。处理后，请彻底洗净手和受污染的皮肤。

Respiratory protection: Avoid breathing dust and processing vapors. When adequate ventilation is not available, wear a NIOSH/MSHA respirator approved for protection against inorganic dusts.

呼吸系统防护：避免吸入粉尘和加工蒸气。如果没有足够的通风，请佩戴经批准可防止无机粉尘的 NIOSH / MSHA 防毒面具。

Special clothing: Rubber gloves.

特殊服装：橡胶手套。

9. PHYSICAL and CHEMICAL PROPERTIES

9.物理化学特性

Model Specification 型号规格:105555-5000mAh

Specifications 能量:3.85V 19.25Wh

Nominal Voltage/capacity 标称电压/容量: 3.85V 5000mAh

Appearance characters 外观特征: Approximate Silver Cuboid

10. STABILITY AND REACTIVITY

10.稳定性和反应性

Stability: Stable

稳定性：稳定

Conditions to Avoid: Heating, mechanical abuse and electrical

应避免的条件：加热，机械滥用和电

Hazardous Decomposition Products: N/A

危险的分解产物：不适用

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

如果泄漏，禁止与强氧化剂，无机酸，强碱，卤代烃接触。

11. TOXICOLOGICAL INFORMATION

11.毒理学信息

Inhalation, skin contact and eye contact are possible when the battery is opened. Exposure to internal contents, the corrosive fumes will be very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

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打开电池时，可能会吸入，皮肤接触和眼睛接触。内部内容物暴露时，腐蚀性烟雾对皮肤，眼睛和粘膜会非常刺激。过度接触会引起非纤维化性肺损伤和膜刺激症状。

12. ECOLOGICAL INFORMATION

12. 生态学信息

When promptly used or disposed the battery does not present environmental hazard. When disposed, keep away from water, rain and snow.

及时使用或处置电池不会对环境造成危害。处理后，请远离水，雨水和雪。

13. DISPOSAL CONSIDERATIONS

13. 废弃处置

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

处置物质或制剂的适当方法

If battery are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of not reaction or unconsumed lithium remaining in the spent battery. The battery must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste.

Recycling of battery can be done in authorized facility, through licensed waste carrier.

如果电池仍充满电或仅部分放电，则由于大量的未反应或废电池中剩余的未消耗的锂，它们可被视为反应性危险废物。在将电池作为危险废物处置之前，必须通过认可的二级处理设施对电池进行中和。电池的回收可以在授权的设施中通过许可的废物运输商进行。

14. TRANSPORT/SHIPPING INFORMATION

14. 运输信息

UN 编号 UN No.	UN3480 UN3481
运输专有名称 Proper shipping Name	UN3480 锂离子电池 UN3480 Lithium Ion Batteries UN3481 锂离子电池与设备打包 UN3481 Lithium Ion Batteries Packed With Equipment UN3481 锂离子电池装在设备中 UN3481 Lithium Ion Batteries contained In Equipment
运输标签 Label for conveyance	锂电池操作标签 Lithium Battery Label 9 类危险品标签 Class 9 Hazard Label 仅限货机标签 Cargo aircraft Only Label

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危险品规例规定，运输前，每一个电池设计通过联合国《试验和标准手册》第七修订版修正 1 第 38.3 节测试报告编号: S03A23090219U00401。

The dangerous goods regulations require that each battery design be subject to tests contained in UNITEDNATIONS the "Manual of Test and Criteria" (ST/SG/AC.10/11/Rev.7+A1:2021) Section 38.3.

Report No.: S03A23090219U00401.

危险性分类:

该电池包装应遵守 IATA DGR 65 版包装说明 965/966/967 的运输要求。

The package of battery should be complied with the requirements of Packing Instruction 965/966/967 of IATA DGR 65th Edition for transportation.

该电池包装应遵守 IMDG-CODE (41-22) 特殊规定 SP188。

The package of battery should be complied with the requirements Special Provisions 188 of IMDG-CODE (41-22).

15. REGULATORY INFORMATION

15.法规信息

Law Information

法律信息

Dangerous Goods Regulation 《危险品法规》

Recommendations on the Transport of Dangerous Goods Model Regulations 《关于危险货物运输示范法规的建议》

International Maritime Dangerous Goods 《国际海上危险品》

Classification and Code of Dangerous Goods 《危险品分类和代码》

OSHA Hazard Communication Standard Status 《危险品分类和代码》

Toxic Substances Control Act (TSCA) Status 《有毒物质控制法 (TSCA) 状况》

Regulations concerning the International Carriage of Dangerous Goods by Rail (2023) 《国际危险货物铁路运输欧洲协定》 (RID) (2023 版)

The International Air Transport Association (IATA) Dangerous Goods Regulations (65th Edition, 2024) 国际航空运输协会 (IATA) 危险货物条例 (2024 年第 65 版)

International Maritime Dangerous Goods Code (41-22) 《国际海运危险货物规则》 (IMDG-CODE) (41-22 版)

Recommendations on the transport of dangerous goods-model Regulations 22th 联合国《关于危险货物运输的建议书 规章范本》 (22 版)

European Agreement concerning the International Carriage of Dangerous Goods by Road (2023) 《国际危险货物道路运输欧洲协定》 (ADR) (2023 版)

In accordance with all Federal, State and Local Laws. 遵守所有联邦，州和地方法律。

16. OTHER INFORMATION

16.其他信息

The data in this Material Safety Data Sheet relates only to the specific material designate herein.

1.本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.

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本材料安全数据表中的数据仅与此处指定的特定材料有关

For more information, please contact Guangdong Cvasun New Energy Technology Co., Ltd. sales representative.

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MSDS Creation Date: Jan.4,2024

MSDS 创建日期: 2024 年 1 月 4 日

报告结束 End of report



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广东产品质量监督检验研究院

GUANGDONG TESTING INSTITUTE OF PRODUCT QUALITY SUPERVISION

广东产品质量监督检验研究院(简称广东质检院、英文简称GQI)成立于1983年9月, 又名广州电气安全检验所、广东省试验认证研究院, 是广东省市场监督管理局(知识产权局)直属的副厅级事业单位。

广东质检院是广东省市场监督管理局(知识产权局)属下的法定社会第三方专门从事产品质量检验检测和认证的机构、中国合格评定国家认可委员会(CNAS)认可的国家级实验室和检验机构、国际电工委员会电工设备及元件合格评定体系组织(IECEE)认可的国际CB实验室、中国国家认证认可监督管理委员会(CNCA)指定的国家强制性产品认证(CCC)检测机构、中国质量认证中心(CQC)等认证机构签约的实验室、中国船级社认可的产品检测和试验机构, 是广东省市场监督管理局(知识产权局)指定的产品质量鉴定组织单位, 广东、海南、陕西、甘肃和山东等省高级人民法院注册认可的司法委托质量鉴定机构。广东质检院属下有广东质检中诚认证有限公司、广安电气检测中心(广东)有限公司、广东华安消防技术服务有限公司及广东质检技术开发公司等4家公司。

广东质检院现有1个总部、3个基地, 拥有现代化实验室和办公场所约14.8万平方米, 资产超13.6亿元, 各类高素质的专业技术和管理人员逾千名, 先进的检测仪器设备逾18000台(套)。经认可的检验检测资质为92类3516种产品/项目, 涉及标准10882项;国际互认CB检测能力为12类184项标准。广东质检院是集检验检测、认证、鉴定、能力验证提供者、标准制修订及科研于一体, 致力于建设国际先进、国内一流, 倍受社会和行业尊敬的权威技术机构。

广东质检院目前拥有10个国家产品质量检验检测中心、16个省产品质量监督检验站和7个广东省工程技术研究中心, 分别是:

- ☐ 国家电器产品安全质量检验检测中心
- ☐ 国家智能电网输配电设备质量检验检测中心(广东)
- ☐ 国家食品质量检验检测中心(广东)
- ☐ 国家消防产品质量检验检测中心(广东)
- ☐ 国家电线电缆产品质量检验检测中心(广东)

- ☐ 国家家具产品质量检验检测中心(广东)
- ☐ 国家涂料产品质量检验检测中心(广东)
- ☐ 国家机械产品安全质量检验检测中心
- ☐ 国家太阳能光伏产品质量检验检测中心(广东)
- ☐ 国家工业机器人质量检验检测中心(广东)

- ☆ 广东省质量监督儿童玩具检验站
- ☆ 广东省质量监督家用空调器检验站(顺德)
- ☆ 广东省质量监督转基因食品及食品毒害物质检验站
- ☆ 广东省质量监督蓄电池检验站
- ☆ 广东省质量监督电动自行车检验站
- ☆ 广东省质量监督轻纺产品检验站
- ☆ 广东省质量监督高压输配电设备检验站
- ☆ 广东省质量监督金银珠宝玉石检验站

- ☆ 广东省质量监督变压器产品检验站(东莞)
- ☆ 广东省质量监督工业机器人检验站(顺德)
- ☆ 广东省质量监督可穿戴智能产品检验站(广州)
- ☆ 广东省质量监督交通通信产品检验站(广州)
- ☆ 广东省质量监督3D打印及纳米材料检验站(顺德)
- ☆ 广东省质量监督新能源汽车充电设备及动力电池检验站(广州)
- ☆ 广东省质量监督超高清显示产品检验站(广州)
- ☆ 广东省质量监督儿童用品检验站(广州)

- 广东省电力变压器及开关设备检测(广安)工程技术研究中心
- 广东省智能LED照明检测工程技术研究中心
- 广东省木材鉴定与评估工程技术研究中心
- 广东省食品生物危害因素监测工程技术研究中心

- 广东省特种电线电缆产品检测工程技术研究中心
- 广东省高分子材料失效分析工程技术研究中心
- 广东省安全性乳化剂研制、应用及检测工程技术研究中心