

材料安全数据表

MATERIAL SAFETY DATA SHEET

样品名称 : 可充电锂离子电池
Product Name Rechargeable Lithium ion Cell

样品型号 : 1165110
Model

委托单位 : 湖南泰和美新能源科技有限公司
Applicant Hunan Times New Energy Technology Co., Ltd.


生产单位 : 湖南泰和美新能源科技有限公司
Factory Hunan Times New Energy Technology Co., Ltd.

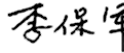
检验类别 : 委托检验
Test Category Commission test

(检验检测专用章)

签发日期: 2023年1月9日

主检: 
Tested by Wen Cui

审核: 
Checked by Luo Bin

批准: 
Approved by Li Baojun

重要声明

Important statement

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The test results presented in the report apply only to the tested sample. The customer provides thier own information, the sample, and the sample information. Thus, SMQ assumes no responsibility for representativeness , authenticity of the sample and validity and accuracy of the information..

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Complaint hotline : 400-900-8999 按 5

Email : complaint@smq.com.cn

检验报告

TEST REPORT

委托单位 : 湖南泰和美新能源科技有限公司
Applicant Hunan Times New Energy Technology Co., Ltd.

委托单位地址 : 中国湖南省泸溪县武溪镇县高新技术产业开发区创新创业园综合楼 7 楼
Applicant Address 7/F, Comprehensive Building, Innovation Science Park, High-tech Industrial Development District, Wuxi Town, Luxi County, Hunan Province, China.

制造商 : 湖南泰和美新能源科技有限公司
Manufacture Hunan Times New Energy Technology Co., Ltd.

制造商地址 : 中国湖南省泸溪县武溪镇县高新技术产业开发区创新创业园综合楼 7 楼
Manufacture Address 7/F, Comprehensive Building, Innovation Science Park, High-tech Industrial Development District, Wuxi Town, Luxi County, Hunan Province, China.

生产厂 : 湖南泰和美新能源科技有限公司
Factory Hunan Times New Energy Technology Co., Ltd.

生产厂地址 : 中国湖南省泸溪县武溪镇县高新技术产业开发区泰和美工业园
Factory Address Tai He Mei Industrial Park, High-tech Industrial Development Zone, Wuxi, Luxi, Hunan, China

样品名称 : 可充电锂离子电池
Product Name Rechargeable Lithium ion Cell

样品型号 : 1165110
MODEL

样品规格 : 10000mAh/37Wh
Specification

商标 : TIMES
Trade mark

委托日期 : 2022-11-29
Consign Date

委托单号 : 8719295
Applicant No.

检验地点 : 深圳市南山区龙珠大道 92 号
Testing location No.92, Longzhu Avenue, Nanshan District, Shenzhen, Guangdong, China

检测依据 : ISO 11014:2009
Test Standards Safety data sheet for chemical products – Content and order of sections

第 1 部分 化学品及企业标识
Section 1—Chemical product and company identification

化学产品信息 Chemical product information	
样品描述 Sample description	可充电锂离子电池 Rechargeable Lithium ion Cell
型号 Model	1165110
标称电压 Nominal voltage	3.7V
充电限制电压 Charge limited voltage	4.2V
额定容量/能量 Nominal capacity / energy	10000mAh / 37Wh
样品接收日期 Sample receiving date	2022-11-29
推荐用途 Recommended uses	---
限制用途 Restrictions on use	---
供应商信息 Supplier information	
制造商 Manufacture	湖南泰和美新能源科技有限公司 Hunan Times New Energy Technology Co., Ltd.
制造商地址 Manufacture Address	中国湖南省泸溪县武溪镇县高新技术产业开发区创新创业园综合楼 7 楼 7/F, Comprehensive Building, Innovation Science Park, High-tech Industrial Development District, Wuxi Town, Luxi County, Hunan Province, China.
电话号码 Telephone	13510344310
紧急联系电话 Emergency telephone	13510344310
邮箱 E-mail	Zhangzhiqiang@timesenergy.cn

第 2 部分 危险性概述

Section 2—Hazards identification

正常使用 Normal use	
危害概述 Hazards overview	正常使用时不会有危险, 只有当电池被机械损坏或电气滥用时, 内部物质才会有暴露的风险。 It is not dangerous with normal use. Risk of exposure occurs only if the battery is mechanically or electrically abused.
健康危害 Health hazards	正常使用情况下没有危害。 There is on hazard under conditions of normal use.
环境危害 Environmental hazards	正常使用情况下没有危害。 There is on hazard under conditions of normal use.
其他危害 Other hazards	正常使用情况下没有危害。 There is on hazard under conditions of normal use.
非正常使用 Abnormal use	
吸入 Inhalation	电池破裂产生的蒸汽或雾气可能会引起呼吸道刺激 vapors or mists from a ruptured battery may cause respiratory irritation
摄入 Ingestion	吞咽裂开电池的组成物质可导致口腔、食道和胃肠道严重化学灼伤。 Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.
皮肤接触 Skin contact	皮肤接触裂开电池的组成物质可导致严重的皮肤刺激或烧伤。 Skin contact with contents of an open battery can cause severe irritation or burns to the skin.
眼睛接触 Eye contact	眼睛接触裂开电池的组成物质会对眼睛造成严重刺激或灼伤。 Eye contact with contents of an open battery can cause severe irritation or burns to the eye.
GHS 分类 GHS classification	
急性毒性 Acute toxicity	类别 4 Category 4
皮肤腐蚀/刺激 Skin corrosion / irritation	类别 8 Category 8
严重的眼部损伤/眼部刺激 Serious eye damage / eye irritation	类别 8 Category 8

第 3 部分 成分/组成信息
Section 3—Composition/information on ingredients

<input type="checkbox"/> 物质/Substance		<input checked="" type="checkbox"/> 混合物/mixture	
化学成分 Chemical Composition	化学式 Chemical Formula	CAS 编号 CAS No.	重量百分比 Weight (%)
石墨 Graphite	C	7782-42-5	18~21
锰 Manganese	Mn	7439-96-5	20~24
锂 Lithium	Li	7439-93-2	2~3
镍 Nickel	Ni	7440-02-0	5~8
钴 Cobalt	Co	7440-48-4	2~3
铝 Aluminium	Al	7429-90-5	4~6
铜 Copper	Cu	7440-50-8	8~11
铅 Lead	Pb	7439-92-1	---
镉 Cadmium	Cd	7440-43-9	---
汞 Mercury	Hg	7439-97-6	---

第 4 部分 急救措施

Section 4—First-aid measures

吸入后 After inhalation	将受害者转移到有新鲜空气的区域，如有氧气，使用氧气。如果呼吸困难，进行人工呼吸，之后请就医。 Remove victim to fresh area, use oxygen if available. Administer artificial respiration if breathing is difficult. Seek medical attention.
皮肤接触后 After skin contact	脱掉被污染的衣服和鞋子。立即用水和肥皂冲洗，并进行彻底清洗。衣服和鞋子再次使用前，要清洗干净。如果出现刺激，请就医。 Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.
眼睛接触后 After eye contact	睁开眼睑，用大量水冲洗眼睛几分钟。如果刺激持续，请就医。 Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.
吞食后 After swallowing	至少喝 2 杯牛奶或水。诱导呕吐，除非患者昏迷。去看医生。 Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Get medical attention.
主要症状 The main symptoms	没有相关的详细信息。 No relevant details information.
健康影响 Health effects	没有相关的详细信息。 No relevant details information.
为了保护救援人员的建议 To protect the rescuers advice	做好防护措施，如戴口罩、戴手套等。 Take protective measures, such as wearing masks, gloves, etc
给医生的建议 To the doctor's advice	需要及时就医并检查症状，无相关详细信息。 Need timely medical treatment and inspection symptoms, no relevant details information.

第 5 部分 消防措施 Section 5—Fire-fighting measures

合适的灭火剂 Suitable extinguishing agents	使用适合当地条件和周围环境的灭火剂。如干粉、二氧化碳。 Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO2.
异常灭火剂 Unsuitable extinguishing media	不要用高压水流溅洒溢出的材料。 Do not scatter spilled material with high pressure water streams.
物质或混合物产生的特殊危险 Special hazards arising from the substance or mixture	当电池暴露在火灾环境中时,可能会爆炸并释放出危险的分解产物。锂离子电池含有易燃电解液,当受到高温 (>150°C)、损坏或滥用时,可能会排放、点燃并产生火花;可快速燃烧,具有火炬燃烧效果;可能会点燃附近的其他电池。 Battery may burst and release hazardous decomposition products when exposed to fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C), when damaged or abused; may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.
灭火方法和防护措施注意事项 Attention extinguishing method and protective measures	佩戴自给式呼吸器。穿上完全防护的防水服。 Wear self-contained respirator. Wear fully protective impervious suit.
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.
爆炸数据 Explosion data	没有相关的详细信息。 No relevant details information.
对机械冲击的敏感性 Sensitivity to mechanical impact	没有相关的详细信息。 No relevant details information.
对静电的敏感性 Sensitivity to static discharge	没有相关的详细信息。 No relevant details information.

第 6 部分 泄露应急处理 Section 6—Accidental release measures

<p>个人防护 Personal precautions</p>	<p>作为一项紧急的预防措施, 在各个方向将泄漏区域隔离至少 25 米 (75 英尺)。保持逆风、上坡和/或上游。在进入封闭空间之前, 对其进行通风。大泄漏: 考虑初始顺风疏散最少 100 米 (330 英尺)。 AS an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75feet) in all directions. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. Large Spill: Consider initial downwind evacuation for at lest 100 meters (330 feet).</p>
<p>作业人员防护措施、防护设备及应急处置程序 Homework personnel protective measures, protective equipment and emergency disposal procedures</p>	<p>穿戴防护装备。疏散未受保护的人员。确保空气流通。 Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.</p>
<p>环保预防措施 Environmental precautions</p>	<p>未经相关的政府许可, 不得将材料释放到环境中。 Do not allow material to be released to the environment without proper governmental permits.</p>
<p>材料溢出或释放时应采取的步骤以及废弃物处理方法 Steps to be taken in case material is spilled or released and waste disposal method</p>	<p>移除火源, 疏散该区域。使用不产生灰尘的方法进行清扫。收集尽可能多的溢出材料, 将溢出材料放入适当的处置容器中。使溢出的材料远离下水道、沟渠和水体。所有废物必须参考联合国、各个国家和地方法规进行处置。 Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.</p>
<p>防止次生灾害的预防措施 To prevent the secondary disasters prevention measures</p>	<p>有关安全操作的信息, 请参见第 7 部分。 有关个人防护设备的信息, 请参见第 8 部分。 有关处置信息, 请参见第 13 部分。 See section 7 for information on safe handling. See section 8 for information on personal protection equipment. See section 13 for disposal information.</p>

第 7 部分 操作处置与存储 Section 7—Handling and Storage

<p>安全操作的注意事项 Precautions for safe handling</p>	<p>避免机械或电气滥用。不得打开、销毁或焚烧电池，因为电池可能泄漏或破裂，并将密封容器中的成分释放到环境中。请勿使端子短路，或对蓄电池过度充电，强制过度放电，或将其扔到火中。请勿挤压或刺穿电池，或浸入液体中。应避免在工作区域内食用食品和饮料。进食、饮水前用肥皂和水洗手。</p> <p>Avoid mechanical or electrical abuse. The batteries 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. Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking.</p>
<p>安全储存条件，包括任何不相容性 Conditions for safe storage, including any incompatibilities</p>	<p>储藏室和容器应满足相应的要求。储存在凉爽、干燥、通风良好、温度变化小的地方。远离热源，避免长时间的阳光照射。</p> <p>如果锂离子电池的储存时间超过 3 个月，建议定期对锂离子电池进行充电。建议在 0°C~35°C 之间长期储存。</p> <p>Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place, which is subject to little temperature change. Keep away from heat, avoiding the long time of sunlight.</p> <p>If the Lithium-ion battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium-ion battery periodically. And recommended at 0°C~35°C for long period storage.</p>
<p>其他要注意的防范措施 Other precautions</p>	<p>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。</p> <p>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.</p>

第 8 部分 接触控制和个体防护
Section 8—Exposure Controls and personal Protection

生物限值 Biological limit	没有相关的详细信息。 No relevant details information.
一般防护和卫生措施 General protective and hygienic measures	应遵循处理化学品的常规预防措施。远离食品、饮料和饲料。立即脱掉所有弄脏和污染的衣服。休息前和工作结束时洗手。 The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.
呼吸系统防护 Respiratory protection	在电池漏气的情况下, 应尽可能多通风。当泄露气体存在高浓度时, 使用合适的呼吸器。在正常使用条件下, 无需进行保护。 In case of cell venting, provide as much ventilation as possible. Use suitable respirator when high concentrations are present. Protection is not necessary under conditions of normal use.
手部防护 Hands protection	穿戴防护手套。在正常使用条件下, 无需进行保护。 Wear protective gloves. Protection is not necessary under conditions of normal use.
眼部防护 Eyes protection	戴上密封性好的护目镜。在正常使用条件下, 无需进行保护。 Wear tightly sealed goggles. Protection is not necessary under conditions of normal use.
皮肤和身体防护 Skin and body protection	穿戴适当的防护服和手套。在正常使用条件下, 无需进行保护。 Wear suitable protective clothing and gloves. Protection is not necessary under conditions of normal use.
气体防护设备 Other protective equipment	在紧邻的工作区域内应备有安全淋浴和洗眼喷泉。 Have a safety shower and eye wash fountain readily available in the immediate work area.

第 9 部分 理化特性
Section 9—Physical and chemical properties

物理特性 Physical properties	
外观 Appearance	银色 Silver
形状 Form	近长方体 Approximate cuboid
气味 Odour	无味 Odourless
物理状态 Physical state	固体 Solid
酸碱度 PH	没有相关的详细信息。 No relevant details information.
沸点 Boiling point	没有相关的详细信息。 No relevant details information.
相对密度 Relative density	没有相关的详细信息。 No relevant details information.
水溶性 Water solubility	没有相关的详细信息。 No relevant details information.
溶解度 Solubility	没有相关的详细信息。 No relevant details information.
燃点 Flash point	没有相关的详细信息。 No relevant details information.
化学特性 Chemical properties	
正极材料 Positive electrode	镍钴锰氧化物锂 Nickel Cobalt Manganese oxide Lithium
负极材料 Negative material	石墨 Graphite
电性能 Electrical properties	
额定容量/能量 Rated capacity / energy	10000mAh /37Wh
额定电压 Normal Voltage	3.7V

第 10 部分 稳定性和反应性 Section 10—Stability and reactivity

化学稳定性 Chemical stability	在正常情況下是稳定的。 Stable in normal circumstances.
危险反应的可能性 Possibility of hazardous reaction	正常情況下没有。 None under normal conditions.
需避开的情况 Conditions to avoid	高温加热、机械滥用、电气滥用。 Heating, mechanical abuse and electrical abuse.
不兼容的材料 Incompatibilities	如果泄漏，禁止接触强氧化剂、矿物酸、强碱、卤代烃。 If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.
危险易燃品 Hazardous combustible products	锂氧化物烟雾，氢。 Lithium oxide fumes, hydrogen.
危险聚合性 Hazardous polymerization	不会发生危险的聚合反应。 Hazardous polymerization does not occur.

第 11 部分 毒理学信息 Section 11—Toxicological information

刺激性 Irritation	仅电池被破坏泄漏时，才会发生刺激的危险。如果发生这种情况，可能会刺激皮肤、眼睛、呼吸道。 The danger of irritation occurs only when the battery is damaged and leaked. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
敏化 Sensitization	没有相关的详细信息。 No relevant details information.
神经学作用 Neurological effects	没有相关的详细信息。 No relevant details information.
致畸形 Teratogenicity	没有相关的详细信息。 No relevant details information.
生殖毒性 Reproductive toxicity	没有相关的详细信息。 No relevant details information.
致突变性 (遗传效应) Mutagenicity (Genetic effects)	没有相关的详细信息。 No relevant details information.

第 12 部分 生态学信息
Section 12—Ecological information

对水生生物的毒性 Aquatic toxicity	没有相关的详细信息。 No relevant details information.
持久性和降解性 Persistence and degradability	没有相关的详细信息。 No relevant details information.
环境系统中的行为 Behavior in environmental systems	没有相关的详细信息。 No relevant details information.
生物累积潜在性 Bioaccumulative potential	没有相关的详细信息。 No relevant details information.
土壤中的流动性 Mobility in soil	没有相关的详细信息。 No relevant details information.
其他生态信息 Additional ecological information	未经当地的政府许可，不得将材料释放到环境中。 Do not allow material to be released to the environment without proper governmental permits.

第 13 部分 废弃处置
Section 13—Disposal considerations

废物处理方法和建议 Waste treatment methods and recommendation	咨询州、地方或国家法规，确保妥善处置 Consult state, local or national regulations to ensure proper disposal.
未清洁包装处置及建议 Recommendation to uncleaned packaging	必须按照官方规定进行处理。 Disposal must be made according to official regulations.

第 14 部分 运输信息

Section 14—Transport information

	IATA	IMDG
UN 编号 UN Number	UN3480	UN3480
运输专用名称 Proper shipping name	Lithium ion batteries	Lithium ion batteries
运输危险等级 Transport hazard class(es)	9	9
包装说明/包装等级 PI / PG	PI 965 section IA	II

运输信息 Transport information	<p>可充电锂离子电池 (1165110 10000mAh/37Wh) 已通过 UN38.3 测试, 检测机构为: 深圳市计量质量检测研究院, 报告编号为: WT203200218。</p> <p>根据 IATA DGR 第 64 版 (2023 版) 包装说明 965 第 IA 部分的规定, 空运时该物品属于第 9 类危险物品。仅限货机运输。</p> <p>根据 IMDG CODE (Amdt 40-20), 海运时该物品属于第 9 类危险物品。</p> <p>有关装运、测试、标记和包装的更多信息, 请访问 Label masterhttp://www.labelmaster.com</p> <p>运输时应将电池分开, 以防短路。它们应用坚固的包装进行包裹, 用以在运输过程中提供支撑。装载货物时, 不得坠落、掉落和破损。防止货物堆积倒塌和被雨水淋湿。</p> <p>The Rechargeable Lithium ion Cell (1165110 10000mAh / 37Wh) has passed the test UN38.3, according to the report ID: WT203200218, issued by Shenzhen Academy of Metrology and Quality Inspection.</p> <p>According to the Packing Instruction 965 section IA of IATA DGR 64th 2023, the package is classified as dangerous goods Class (or division) 9 by air. Cargo aircraft only.</p> <p>And according to the IMDG CODE (Amdt 40-20), the package is classified as dangerous goods Class (or division) 9 by sea.</p> <p>More information concerning shipping, testing, marking and packaging can be obtained from Label master at http://www.labelmaster.com</p> <p>Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.</p>
运输方式 Transport fashion	空运, 海运, 铁路, 陆路 By air, by sea, by railway, by road.

第 15 部分 法规信息
Section 15—Regulatory information

《危险品规则》 《Dangerous Goods Regulation》(DGR)
《对危险货物运输有关规定的建议》 《Recommendations 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 Substances 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)
《石油污染法案》 《The Oil Pollution Act》(OPA)
《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)
《美国联邦法规》 《Code of Federal Regulations》(CFR)
根据所有联邦、州和地方法律 In accordance with all Federal, State and Local laws.

第 16 部分 其他信息
Section 16—Other information

上述信息基于我们所知的数据，并被认为是正确的。由于本信息可能在我方无法控制的情况下使用，所有材料可能存在未知危险，应谨慎使用。尽管本文描述了某些危险，但我们不能保证这些是唯一的危险。用户应仔细阅读此文件，并按照正确的方法操作使用。如因使用不当造成损害或损失，我公司不承担任何责任。

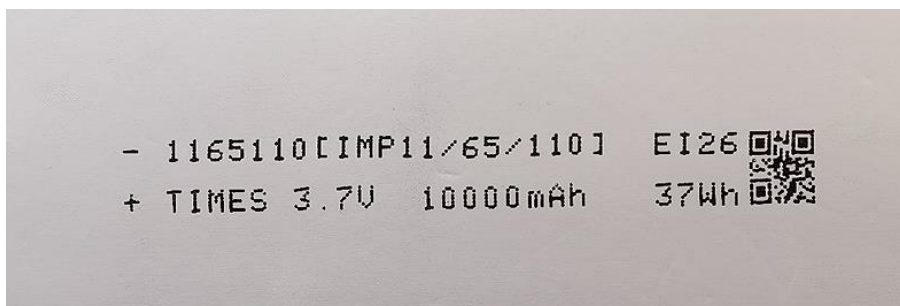
The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Users should read this file carefully, and use or operate according to the correct method. Our company doesn't assume responsibility for any damage or loss because of misusing.

1. 样品照片 (PHOTOS)

图 1 样品正反面照片 (Front and back side of the sample)



图 2 样品铭牌照片 (Marking of the sample)



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