

化学品安全技术说明书 MSDS

委托单位: 深圳市华盛昌科技实业股份有限公司
Applicant: Shenzhen Everbest Machinery Industry Co., Ltd

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样品名称: 一次性锂电池芯
EUT Name: Disposable Lithium Battery

样品型号: LS14250
Model Name:

品牌名称: N/A
Brand Name:

依据标准: GB/T 16483-2008; ISO 11014-2009
According to the standard:

签发日期: 2025.01.03
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深圳市钛和巴伦技术股份有限公司 Shenzhen BALUN Technology Co., Ltd.

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第一部分：化学品产品信息和制造商信息

Section 1-Chemical Product and Company Identification

产品名称 (Product Name): 一次性锂电池芯 Disposable Lithium Battery

商标 (Trade Mark): N/A

型号 (Model): LS14250

额定电压 (Nominal Voltage): 3.6V

参数(Ratings): 1200mAh, 4.32Wh

制造商: 帅福得 (珠海保税区) 电池有限公司

Manufacture: Saft (Zhuhai Free Trade Zone) Batteries Co., Ltd

地址: 广东省珠海市保税区地号 BSQ 0205 珠海保税区银子汇电器有限公司厂房

Address: Factory building of zhuhai bonded area yinhui electric appliance co., LTD

工厂: 帅福得 (珠海保税区) 电池有限公司

Factory: Saft (Zhuhai Free Trade Zone) Batteries Co., Ltd

地址: 广东省珠海市保税区地号 BSQ 0205 珠海保税区银子汇电器有限公司厂房

Address: Factory building of zhuhai bonded area yinhui electric appliance co., LTD

邮政编码 (Post Code): / 邮箱 (E-mail): certification@cem-meter.com.cn

紧急联系电话 (Emergency Telephone): 0755-27353188

第二部分：成分组成信息

Section 2- Composition/Information on Ingredient

化学名称 Chemical Name	分子式 Molecular formula	CAS号 CAS No.	重量 Weight (%)
锂/ Lithium	Li	7439-93-2	2.5~3.5
二氧化锰/ Manganese Dioxide	MnO ₂	1313-13-9	37~39
石墨/ Graphite	C	7782-42-5	3.5~4.5
高氯酸锂/ Lithium perchlorate	LiClO ₄	7791-03-9	1~2
乙二醇二甲醚/ Ethylene glycol dimethy ether	C ₄ H ₁₀ O ₂	110-71-4	6~8
碳酸丙烯酯/ Propylene carbonate	C ₄ H ₆ O ₃	108-32-7	7.5~8.5
铁/ Iron	Fe	7439-89-6	29~31
铬/ Chromium	Cr	7440-47-3	10.5~12.5
钼/ Molybdenum	Mo	10241-05-1	1~1.5
聚丙烯/ Polypropylene	(C ₃ H ₆) _x	9003-07-0	2~3

注: CAS 号是化学文摘服务注册号码。

Note: CAS number is Chemical Abstract Service Registry Number.

第三部分：危险识别

Section 3- Hazards Identification

危险等级：根据DGR 3.9.2.6，锂电池属于第9类—杂类危险品。

入侵途径:

皮肤接触: 皮肤接触电解液可能引起皮肤过敏。

眼睛接触: 与有机溶液接触对眼睛有严重的危害风险。

吸入: 吸入是有危害的。

摄入: 吞咽是有危害的。

健康危害: 正常条件下根据制造商的说明使用电池不会产生危害。使用不当的情况下, 有破裂、起火、发烫、内部成分泄漏的危险, 并可能造成意外损失。使用不当的行为包括但不限于下列情况: 长时间充电、短路、投入火中、硬物撞击、尖物刺破、破碎, 和破裂。

环境危害: 电池的组成物质对环境有危害。

爆燃危害: 机械撞击的火焰、短路和高温条件情况下, 电池会起火爆炸。

Fatalness grade: According to DGR 3.9.2.6, Lithium batteries are classified in Class 9 – Miscellaneous dangerous goods.

Invasion route:

Skin touch: May cause allergy by skin contact with the battery electrolyte.

Eyes touch: Risk of serious damage to the eyes when it contacts with organic solution.

Inhalation: Inhalation can be dangerous.

Ingestion: Harmful if swallowed.

Health hazards: The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

Environment hazards: The components of the battery are harmful to the environment.

Burn & burst danger: It will explode, flame when it machine impinges, short-circuits and in high-temperature situation.

第四部分：急救措施

Section 4- First Aid Measures

皮肤接触：脱去被污染的衣物，并用大量流动的水清洗皮肤至少 15 分钟。如果有刺激、受伤或疼痛症状，请立即就医。

眼睛接触：翻起眼睑，用流动的水清洗至少 30 分钟。立即就医。

吸入：将患者立即从暴露现场转移至空气清新处，保持其呼吸道顺畅。如果有可能使用氧气袋。立即就医。

吞咽：如果患者失去意识请勿催吐，立即就医。

Skin touch: Remove any contaminated clothing and flush exposed skin with plenty of running water for at least 15 minutes. If irritation, injury or pain persists, seek medical attention.

Eyes touch: Lifting the upper and lower eyelids, flush the eyes with running water for at least 30 minutes. Seek immediate medical attention.

Inhalation: Remove the patient from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Ingestion: Induce vomiting unless patient is unconscious. Seek immediate medical attention.

第五部分：消防措施

Section 5- Fire Fighting Measures

危险特性：电池接触火源可能发生爆炸并释放有害的分解产物。当机械撞击产生火焰，短路或高温条件下，也会发生爆炸。与氧化剂接触，电池会与氧化剂反应。

有害燃烧产物：一氧化碳、二氧化碳、金属氧化物等。

消防方法：所有人员必须佩戴过滤式防毒面具(面罩)或独立的呼吸器，穿戴可防御火和有毒气体的消防防护服。

尽量在上风处灭火，尽可能将容器移至空旷处。

灭火剂: 泡沫, 干粉, 二氧化碳, 砂土。

Danger characteristic: Batteries may burst and release hazardous decomposition products when exposed to a fire situation. It will explode, flame when it machine impinges, short-circuits and in high-temperature situation. It will react with oxidizer.

Hazardous combustion products: Carbon monoxide, carbon dioxide, metal oxide etc.

Fire-Fighting method: The staff must equip with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible.

Media: foam, powder, CO₂, sandy clay.

第六部分: 泄露应对措施

Section 6- Accidental Release Measures

电池内部材料的泄露, 如电池电解液, 依据如下方法小心处理:

人体预防: 穿戴防护设备(护目镜和防护手套)转移溢出材料。尽可能的避免接触和不要吸入气体。

环境预防: 禁止排放到环境中。

清理方法: 把溢出物质收集于容器中。泄露区域用干的布进行清洁。

二次危害预防: 避免扩散。收集的材料请勿靠近火源。

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings:

Precautions for human body: Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible.

Environmental precautions: Do not throw out into the environment.

Method of cleaning up: the spilled solids are put into a container. The leaked place is wiped off with dry cloth.

Prevention of secondary hazards: avoid re-scattering. Do not bring the collected materials close to fire.

第七部分：操作和储存

Section 7- Handling and Storage

操作

技术措施：

使用者暴露预防：正常使用下不需要。

火灾和爆炸预防：正常使用下不需要。远离火源和热源。

操作安全预防：不要破坏或拆除外部壳套。

安全操作注意事项：电池严禁拆开、破坏或焚烧，因为电池密封的材料可能泄露、破裂并释放到环境中。严禁

将电池扔到火中或暴露于高温环境中。电池不可浸泡在水或海水中。严禁与强氧化剂放置

在一起。严禁强烈的机械撞击和抛掷。不要拆卸或使其变形。如需装料，请用专用的装料

机进行装料。

存储：

存储条件：避免机械或电气滥用。存储于阴凉、干燥、通风良好并且温度变化较小的地方。避免高温条件。电

池应远离发热设备，不要将电池长时间的暴露在直射的阳光下。

禁忌物：导电材料、水、海水、强氧化剂和强酸。

包装材料：建议使用绝缘材料或被证明耐用的材料。

Handling

Technical measures:

Prevention of user exposure: Not necessary under normal use.

Prevention of fire and explosion: Not necessary under normal use. Keep away from fire and heating sources.

Precaution for safe handling: Do not damage or remove the external tube.

Specific safe handling advice: 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. Never throw out battery cells in a fire or expose to high temperatures. Do not soak battery cells in water or seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or fling. Never disassemble or deform. In the case of charging, use only dedicated charger.

Storage

Storage conditions: 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.

Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids.

Packing material: Insulative and tear proof materials are recommended.

第八部分：接触控制和个人防护措施

Section 8- Exposure Controls, Personal Protection

呼吸系统保护：工作场所保持良好的通风，工作时需佩戴合格的口罩或面罩。

眼睛保护：护目镜，装配合格和安全的淋浴或冲洗眼睛设备。

身体保护：穿工作服，注意保护裸露的皮肤。

手保护：穿戴手套。

其他保护：工作场所禁止吸烟、饮食。保持良好的卫生习惯。

Respiratory protection: The work place keep well ventilated, wear qualified mask or face mask at work time.

Eyes protection: Goggles, equipped available and safety shower and wash eyes equipment.

Body protection: Wear work clothes, pay attention to protect bare skin.

Hands protection: Wear gloves.

Other Protections: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

第九部分：理化性质

Section 9- Physical and Chemical Properties

形态

物理状态：固体 形状：圆柱体 颜色：/ 气味：/ pH：/

特定温度或温度范围对电池物理形态的变化：对于混合物产品没有有价值的信息。

闪点：无相关资料。

爆炸性能：机械撞击的火焰、短路和高温条件下，电池会起火爆炸。

密度：无相关资料。

溶解度：不溶于水。

Appearance

Physical state: Solid Form: Cylinder Color: / Odor: / pH: /

Specific temperatures/temperature ranges at which changes in physical state occur: There is no useful information for the product as a mixture.

Flash point: No information.

Explosion properties: It will explode, flame when it machine impinges, short-circuits and in high-temperature situation.

Density: No information.

Solubility: Insoluble in water.

第十部分：稳定性和化学反应

Section 10- Stability and reactivity

稳定性：在正常温度和压力下稳定。

禁忌物：强氧化剂、酸、碱。

避免条件：高温热源、火源。

燃烧产物：一氧化碳、二氧化碳、碳氢烃类分解物、有毒烟雾。

Stability: Stable under normal temperature and pressure.

Distribution of Ban: Strong oxidizer, acid, alkali.

Conditions to Avoid: High temperature heat source, fire source.

Decomposition Products: CO, CO₂, Hydrocarbon hydrocarbon decomposition, toxic smoke.

第十一部分：毒理学信息

Section 11- Toxicological information

关于产品本身现无相关数据。

刺激：内部物质暴露的情况下，蒸汽烟雾可能对眼睛和皮肤的刺激性

致敏：不适用。

再生毒性：不适用。

协同材料毒理学：不适用。

Irritation: In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Acute toxicity: No applicable data.

Local effects: Unknown.

Sensitization: Unknown.

Chronic toxicity/Long term toxicity: Unknown.

Skin causticity: Although it is very rare, the rash of the skin and allergic erythema may result.

第十二部分：生态学信息

Section 12- Ecological Information

对该产品的生态学信息无相关资料。

本产品不允许排入下水道和/或河流。

流动性：无相关资料。

持久性和降解性：无相关资料。

潜在生物积累性：无相关资料。

生态毒性：对水生物有毒，可能对水生环境产生长期的不利影响。

No information is available about this product's ecological data.

This product is not allowed to discharge into the sewer or/and rivers.

Mobility: Not available.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

第十三部分：废弃处置

Section 13- Disposal Considerations

禁止弃置于下水道或水渠。

废物：依据现有的法规回收或处理废弃物，尽可能选择有资质的废弃物回收者或公司。禁止将废弃物直接排入环境中。

污染包装：完全清空容器，并保留容器标识。选择有资质的废弃处理承保人。

Do not put into drains or waterways.

Waste: Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not dispose of waste into the environment.

Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

第十四部分：运输信息

Section 14- Transport Information

电池已经通过了UN38.3测试。运输过程中请根据 IATA DGR第66版包装说明，IMDG CODE (inc Amdt 41-22) 特殊规定188及ADR2023执行。电池应该牢固的放置，防止短路。运输前要检查包装容器是否完整、密封，运输过程中要确保容器不泄露、不脱落、不损坏。严禁与氧化剂、酸等混装混运。运输工具必须彻底清洗、消毒，否则不得装运其他货物。运输途中应防暴晒、雨淋、高温，应远离火源。海运运输时，放置点应远离卧室和厨房，并与机舱、电源和火源处隔离。道路运输时，应按照规定的路线行驶，在居民区和拥挤区域内不要停车。严禁使用木质、水泥散装运输。

The Batteries have been tested under provisions of the UN Manual of Tests and Criteria, Part III, sub-section 38.3. Transportation should comply with the PACKING INSTRUCTION of IATA DGR 66th Edition, the special provision 188 of IMDG CODE (inc Amdt 41-22) and ADR 2023. The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

UN编码及运输名称 UN-Number and shipping name

UN 3090 & UN 3091

Lithium metal batteries (including lithium alloy batteries) or;

锂金属电池（包括锂合金电池）或；

Lithium metal batteries packed with equipment (including lithium alloy batteries) or;

与设备一起包装的锂金属电池（包括锂合金电池）或；

Lithium metal batteries contained in equipment (including lithium alloy batteries).

包含在设备中的锂金属电池（包括锂合金电池）。

运输危险品分类 Transport hazard class(es)

ADR, IMDG, IATA Class 9 Miscellaneous dangerous substances and articles. (第9类危险品)

用户特别注意事项：

警告：杂项危险物品

Special precautions for user:

Warning: Miscellaneous dangerous substances and articles

第十五部分：管理信息

Section 15- Regulatory information

法规信息：

国际航空运输协会：危险物品法规

国际海事组织：国际海运危险货物规则

ISO 11014-2009 化学品用安全资料表 内容和排列顺序章节。

Regulatory Information:

International Air Transport Association: Dangerous Goods Regulation

International Maritime Organization: International Maritime Dangerous Goods Code

ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

第十六部分：其他信息

Section 16- Other Information

上述信息是基于现有的数据信息，在实际应用过程中，可能出现其他未预料的情况，其相应信息可能需要修改，我方不承担责任，在操作中请根据实际情况做出相应的正确处理。

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 and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



修订记录 CHANGE HISTORY			
版本 ISSUE	日期 DATE	修订描述 REVISION DESCRIPTION	修订人 Revised by
01	2025/01/03	INITIAL ISSUE	黄永强

