

大湖 Tian Su

Report No.: TSZ23110701-P02-R02

# 材料安全数据表

# Material Safety Data Sheet

本 报 告 本 年 度 有 效 有效期至 2024 年 12 月 31 日

样品名称: 碱性电池

Sample name: Alkaline Zinc-Manganese Dry Battery

样品型号:

**LR03** 

Sample model:

委托单位: 深圳市比苛电池有限公司

Applicant: SHENZHEN PKCELL BATTERY CO.,LTD

签发时间 Date of issue: 2023.12.07

Written by 为mm Approved by 段 2 入

深圳天湖计量检测股份有限公司

Shenzhen Tiansu Calibration and Testing Co., Ltd.

(01 - 03)





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\* 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. 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。

Section 1-Chemical Product and Company Identification		
第一部分-化学品及企业标识		
产品名称	碱性电池	
Product Name	Alkaline Zinc-Manganese Dry Battery	
型号	LR03	
坐 为 Model	LR6/LR14/LR20/6LR61/4LR25/3LR12/LR61/LR1	
Woder	/AA/AAA/AAAA/9V/LR03+LR6/LR6+LR03	
商标		
Trade Mark		
制造商	深圳市比苛电池有限公司	
Manufacturer	SHENZHEN PKCELL BATTERY CO.,LTD	
制造商地址	深圳市龙华区民塘路328号鸿荣源北站中心B座9层	
Manufacturer	9th Floor,Block B,Hongrongyuan North Station Center,No.328,Mintang	
Address	Road,Longhua District,Shenzhen,China.	
应急电话	13727580105	
Emergency Telephone	10121000100	
传真		
Fax		

## 第二部分-成分信息

# Section 2- Composition Information

化学成分	CAS号	重量含量(%)	商业秘密
Chemical Composition	CAS No.	Weight (%)	Trade Secret
Manganese Dioxide	1313-13-9	41.8	*
Zinc	7440-66-6	16	*
Acetylene	1310-58-3	15	*
Stainless Steel	12681-83-3	16	*
Water	7732-18-5	7.2	*
Graphite	7782-42-5	3	*
Others	NA	1.0	*





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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
标签元素	
Label elements:	
危险标签图	不适用
Hazard pictogram(s)	Not Applicable
提示语	不适用
Signal word	Not Applicable
危险声明	不适用
Hazard statement(s)	Not Applicable
预防声明	
Precautionary statement(s):	
预防	不适用
Prevention	Not Applicable
反应	不适用
Response	Not Applicable
废弃处理	不适用
Disposal	Not Applicable
环境危害	No relevant information
Environmental hazards:	无相关信息
重要症状	See section 11 for more information
Important symptoms:	见第11部分更多信息
	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,翻起上下眼睑,直到化学的残
眼睛接触	留物消失为止,迅速就医。
Eye contact	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
皮肤接触	医。
Skin contact	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。
吸入	Remove from exposure and move to fresh air immediately. Use oxygen if
Inhalation	available.
摄入	饮用两杯牛奶或水,如果当事人仍然清醒可以采取催吐的方法,并且立即就医。
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is
900	unconscious. Call a physician.
	第五部分-消防措施
Section 5- Fire Fighting Measures	
Section 5- Fire Fighting Measures	





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ACCEPT THE LABOR.	Page 47 To Pages
燃点	不适用
Flash Point	N/A
自燃温度	不适用
Auto-Ignition Temperature	N/A
灭火介质	碳氢表面活性剂, 二氧化碳
Extinguishing Media	Hydrocarbon surfactant, CO <sub>2</sub>
特殊灭火程序	自给式呼吸器
Special Fire-Fighting Procedures	Self-contained breathing apparatus
异常火灾或爆炸	当电芯暴露于过热的环境中时,安全阀可能会打开
Unusual Fire and Explosion	Cell may vent when subjected to excessive heat-exposing battery contents
Hazards	Cell may vent when subjected to excessive heat exposing battery contents
燃烧产生的危险物品	一氧化碳, 二氧化碳,
<b>Hazardous Combustion Products</b>	Carbon monoxide, carbon dioxide.

第六部分-泄露应急处理

### Section 6- Accidental Release Measures

#### 个人预防措施、保护设备和应急程序:

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。

#### Personal precautions, protective equipment and emergency procedures:

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:

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。

#### **Environment precautions:**

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:

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。根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。

#### Methods and material for containment and cleaning up:

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.





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第七部分-操作处置和储存		
Section 7- Handling and Storage		
操作处置 <b>Handling</b>	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	
Section 8- E	xposure 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.	
个人防护装备 Personal Protective Equipment	Keep away from heat and open flame. Store in a cool, dry place.  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	





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	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.		
	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。		
其它防护装备	Have a safety shower and eye wash fountain readily available in the		
Other Protective Equipment	immediate work area.		
卫生措施	在工作区域不得进食,饮水或吸烟。		
上生旬地 Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.		
7,5	·		
	第九部分-物理和化学特性		
Section 9-	Physical and Chemical Properties		
颜色	不适用		
Color	Not Applicable		
气味	不适用		
Odour	Not Applicable		
酸碱度	不适用		
pH	Not Applicable		
熔点/凝固点	不适用		
Melting point/freezing point	Not Applicable		
沸点、沸点范围:	不适用		
Boiling Point and Boiling range	Not Applicable		
易燃度	不适用		
Flash Point	Not Applicable		
自燃或爆炸的上、下极限	   不适用		
Upper/lower flammability or	Not Applicable		
explosive limits			
蒸汽压	不适用		
Vapor Pressure	Not Applicable		
蒸汽密度	不适用		
Vapor Density	Not Applicable		
相对密度	不适用		
Relative density 水溶性	Not Applicable  不适用		
水浴性   Solubility in Water	Not Applicable		
Solubility III Water	INOT Applicable		

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自燃温度	不适用
Auto-ignition temperature	Not Applicable
分解温度	不适用
Decomposition temperature	Not Applicable
蒸发速率	不适用
Evaporation rate	Not Applicable
易燃性(土壤、天然气)	不适用
Flammability (soil, gas)	Not Applicable
粘性	不适用
Viscosity	Not Applicable
	第十部分 稳定性和反应活性
Secti	on 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
应避免的条件	加热 70℃ 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.
	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 Applicable
Reaction	
	第十一部分-毒理学资料
Section	11 - Toxicological Information
刺激	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 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 Not Applicable





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ALCOHOLO DE MANDELO DE COMPANIO	Page 8710 Pages
Sensitization	
影响神经系统	不适用
Neurological Effects	Not Applicable
致畸	不适用
Teratogenicity	Not Applicable
再生毒性	不适用
Reproductive Toxicity	Not Applicable
诱变(遗传效应)	不适用
Mutagenicity (Genetic Effects)	Not Applicable
附带材料毒理性	不适用
Toxicologically Synergistic	Not Applicable
Materials	
	第十二部分-生态学资料
Secti	on 12- Ecological Information
生态毒性	不适用
Ecological Toxicity	Not Applicable
在土壤中的流动性	不适用
Mobility in soil	Not Applicable
持久性和分解性	不适用
Persistence and Degradability	Not Applicable
生物聚积	不适用
Bioaccumulation potential	Not Applicable
其他不利影响	不适用
Other Adverse Effects	Not Applicable
	第十三部分-废弃处置
Section 13- Disposal Considerations	
产品废弃处理建议	الما الما الما الما الما الما الما الما
Product disposal	遵守当地、州和联邦法律和法规。 Observe local, state and federal laws and regulations.
recommendation	obootto todat, otate and rederal laws and regulations.
包装处理建议	废弃处理必须根据当地法规





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Packaging disposal recommendation	Disposal must be made according to official regulations		
	第十四部分-运输信息		
Section 14 - Transport Information			
运输标签	不受监管		
Label for conveyance	None Regulated		
UN 编号	不受监管		
UN Number	None Regulated		
运输风险类别	不受监管		
Transport hazard class(es)	None Regulated		
包装等级	不受监管		
Packing group	None Regulated		
海洋污染物	无污染		
Marine pollutant	No		
联合国运输专用名称	不受监管		
UN Proper shipping name	None Regulated		

本货物应被美国交通部(DOT)、国际民用航空组织(ICAO)、国际航空运输协会(IATA) DGR 65版本,IATA特殊规定A123,国际海运危险货物代码(IMDG Code) (Amdt 41-22)视为不受限制货物。

在空运或海运的货运单上应包含"Not Restricted"及特殊规定条款号。

运输方式:空运,海运,铁路,公路。

#### **Transport information:**

This goods shall be considered Not Restricted Goods by the U.S. Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 65<sup>th</sup>, IATA Special Provisions A123, International Maritime Dangerous Goods Code (IMDG CODE) (Amdt 41-22)

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.

Transport Fashion: By air, by sea, by railway, by road.

第十五部分 法规信息

## Section 15- Regulatory information

#### 法律信息

#### Law 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》





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《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》

《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)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》(RCRA)

《国际危险货物道路运输欧洲协定》

《European Agreement concerning the International Carriage of Dangerous》

《国际危险货物铁路运输欧洲协定》

《Regulations concerning the International Carriage of Dangerous》

根据所有联邦、州和地方法律。

In according with all Federal, State and local laws.

第十六部分-其它信息

### Section 16- Other Information

上面的信息被认为是准确代表了目前最好的信息提供给我们。然而,飞机没有对商品性能保证或任何其他保证,包括明示或暗示,对这类信息的使用我们不承担责任。用户应作出自己的调查,以确定是否适合其特定用途的信息。虽然在此处所包含的数据的准备已经采取了合理的预防措施,这是仅为你提供的信息、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南,它并不能对所有可能发生的情况提供建议,因此,您特殊使用该产品应先进行评估,以确定是否需要额外的预防措施。

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

-- End of Report ---- 报告结束 --

