

# MSDS Report

## MATERIAL SAFETY DATA SHEET

### 材料安全数据报告

**Name of Sample** : ALKALINE BATTERY

**产品名称** 碱性电池

**Model** : N/LR1,

**型号** LR03/AAA, LR6/AA, LR14/C, LR20/D,  
LR61/AAAA, 6LR61/9V,3LR12,4LR25

**Trade Name** : N/A

**商标**

**Applicant** : WUXI YONGHUA BATTERY CO.,LTD.

**申请商** 无锡永华电池有限公司

**Address** : QIANSHI ROAD,QIANZHOU TOWN,WUXI,JIANGSU,CHINA

**地址** 江苏省无锡市前洲镇前石路

**Report No.** : HSO231221464URM

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Prepared and checked by



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## 1- PRODUCT AND COMPANY IDENTIFICATION

### 1-化学品及企业标识

**Applicant** : WUXI YONGHUA BATTERY CO.,LTD.  
**申请商** : 无锡永华电池有限公司

**Address** : QIANSHI ROAD,QIANZHOU TOWN,WUXI,JIANGSU,CHINA  
**地址** : 江苏省无锡市前洲镇前石路

**Manufacturer** : WUXI YONGHUA BATTERY CO.,LTD.  
**制造商** : 无锡永华电池有限公司

**Address** : QIANSHI ROAD,QIANZHOU TOWN,WUXI,JIANGSU,CHINA  
**地址** : 江苏省无锡市前洲镇前石路

**Product name** : ALKALINE BATTERY  
**产品名称** : 碱性电池

**Model** : N/LR1,  
**型号** : LR03/AAA, LR6/AA, LR14/C, LR20/D, LR61/AAAA, 6LR61/9V,3LR12,4LR25

**Ratings/参数** : 1.5V 9.5g N/LR1

**Trade Name** : N/A  
**商标** : N/A

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**2-COMPOSITION /INFORMATION ON INGREDIENTS****2-成分/成分信息**

Important note: The battery should not be opened or burned.

Exposure to the ingredients contained within or their combustion products could be harmful.

重要提示:请勿打开或烧毁电池。

暴露于其中的成分或其燃烧产物可能是有害的。

<b>MATERIAL OR INGREDIENT</b> 材料或成分	<b>CAS No.</b> 化学文摘登记号	<b>%/wt.</b> 百分比
Graphite powder 石墨粉	7782-42-5	2.7%
Manganese dioxide 二氧化锰	1313-13-9	38.9%
Zinc 锌	7440-66-6	15%
Potassium hydroxide 氢氧化钾	1310-58-3	6.8%
Zinc oxide 氧化锌	1314-13-2	0.45%
Iron 铁	7439-89-6	21.78%
Copper 铜	7440-50-8	2.7%
Special Vinylon Fiber 特种维纶纤维	--	0.9%
Nylon 66 尼龙66	32131-17-2	0.9%



Deionized water 去离子水	7732-18-5	5.49%
Other 其他	--	4.38%

### 3-HAZARDS IDENTIFICATION/3-危害识别

**Chemical,Nature:N/A**

化学性能:N/A

**CAS-No/EINECSNO.:N/A**

化学性能索引码:N/A

**INCI CTFA-Description: non-rechargeable ALKALINE BATTERYseries**

INCI CTFA-描述: 一次性碱性电池系列

**Hazard description: Do not dispose of in fire or short circuit.**

危害性:不要置于火中或者致其短路

### 4-HEALTH HAZARD DATA/4-健康危害数据

Under normal conditions of use,the battery is hermetically sealed.

在正常情况下使用,电池是密封的

**Ingestion:** Swallowing a battery can be harmful.

Contents of an open battery can cause serious chemical burns of mouth,esophagus,and gastrointestinal tract. If battery or open battery is ingested,do not induce vomiting or give food or drink. Seek medical attention immediately.

**摄入:**吞下电池是有害的。

打开的电池内的物质会导致口腔、食道和胃肠道严重的化学灼伤。如果误食电池或未开封的电池,不要诱导呕吐或给食物或饮料。立即就医。

**Inhalation:** Contents of an open battery can cause respiratory irritation. Inhalation of vapors may cause irritation of the upper respiratory tract and lungs. Provide fresh air and seek medical attention.

**吸入:**打开电池的内容物会引起呼吸道刺激。吸入蒸气可能会刺激上呼吸道和肺部。提供新鲜空气并寻求医疗救助。

**Skin Absorption:** Ethylene carbonate,diethyl carbonate and dimethyl carbonate may be absorbed through the skin causing localized inflammation.

**皮肤吸收:**碳酸乙烯酯、碳酸二乙酯和碳酸二甲酯可能通过皮肤吸收,引起局部炎症。

**Skin Contact:** Contents of an open battery can cause skin irritation and/or chemical burns.

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Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

**皮肤接触:**打开电池的内容物会引起皮肤刺激和/或化学灼伤。脱掉被污染的衣服,用肥皂和水清洗皮肤。如果发生化学灼伤或持续刺激,请就医。

**Eye Contact:** Contents of an open battery can cause severe irritation and chemical burns. 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:**打开的电池内的物质会引起严重的刺激和化学灼伤。立即用水彻底冲洗眼睛至少15分钟,抬起上下眼睑,直到没有化学物质残留。寻求医疗救助。

**Note:** Acetylene black and cobalt compounds are listed as possible carcinogens by the International Agency for Research on Cancer (IARC).

**注:**乙炔黑和钴化合物被国际癌症研究机构列为可能的致癌物。

## 5- FIRE AND EXPLOSION HAZARD DATA/5-火灾和爆炸危险数据

In case of fire where battery is present, flood the area with water. If any battery is burning, water may not extinguish them, but will cool the adjacent battery and control the spread of fire. CO<sub>2</sub>, dry chemical, and foam extinguishers are preferred for small fires, but also may not extinguish burning battery. Burning battery will burn them out. Virtually all fires involving be controlled with water. When water is used, however, LITH-X (powdered graphite) or copper.

如果在有电池的地方发生火灾,请用水淹没该区域。如果任何电池正在燃烧,水可能不会熄灭它们,但会冷却邻近的电池并控制火势的蔓延。二氧化碳、干粉和泡沫灭火器适用于小型火灾,但也可能无法熄灭燃烧的电池。燃烧的电池会把它们烧坏。几乎所有涉及火灾的火灾都可以用水控制。然而,当使用水时,则使用 lite - x(粉状石墨)或铜

powder fire extinguishers, sand, dry ground dolomite or soda ash may also be used. These materials act as smothering agents. Fire fighters should wear self-contained breathing apparatus. Burning ALKALINE BATTERY can produce toxic fumes including HF.

粉状灭火器、沙子、干磨白云石或纯碱也可以使用。这些材料起窒息剂的作用。消防队员应佩戴自给式呼吸器。燃烧碱性电池会产生包括 HF 在内的有毒烟雾。

## 6-SPECIAL PROTECTION INFORMATION/6-特殊保护信息

**Ventilation Requirements:** Not necessary under normal conditions.



**通风要求:**正常情况下不需要。

**Respiratory Protection:** Not necessary under normal conditions.

**呼吸防护:**正常情况下不需要。

**Eye Protection:** Not necessary under normal conditions. Wear safety glasses with side shields if handling an open or leaking battery.

**护眼:**正常情况下不需要。如果处理打开或泄漏的电池，请佩戴带侧护的安全眼镜。

**Gloves:** Not necessary under normal conditions. Use neoprene or natural rubber gloves if handling an open or leaking battery.

**手套:**正常情况下不需要手套。处理打开或泄漏的电池时，请使用氯丁橡胶或天然橡胶手套。

**Open Battery Storage:** Battery should not be opened. Should a cell become disassembled, the electrode should be stored in a fireproof cabinet, away from combustibles.

**开放式电池存储:**电池不应打开。当电池被拆卸时，电极应存放在防火柜中，远离可燃物。

## 7-HANDLING AND STORAGE/7-处理和储存

### Handling:

Do not place it near the boiler and radiator, nor expose to direct sun light.

Do not dispose of the fire and recharge, the battery, also short circuit is avoid, accidental short-circuiting or a few seconds will not seriously affect the battery. Do not disassemble or deform the battery. Should an individual cell within a battery become ruptured, do not allow contact with water.

### 处理方法:

不要放置在锅炉和散热器附近，也不要暴露在阳光直射下。

不要随意处置火和充电，电池也要避免短路，意外短路或几秒钟都不会严重影响电池。请勿拆卸或变形电池。如果电池中的单个电池破裂，请勿与水接触。

### Storage:

Keep batteries between  $-30^{\circ}\text{C}$  and  $35^{\circ}\text{C}$  for prolong storage. Do not place it near the boiler and radiator, nor expose to direct sun light. Do not dispose of the fire and recharge the battery, also short circuit is avoid.

请将电池保持在 $-30^{\circ}\text{C}$ 至 $35^{\circ}\text{C}$ 之间，以延长储存时间。不要将其放置在锅炉和散热器附近，也不要暴露在阳光直射下。不要乱放火源和给电池充电，也要避免短路。

**8-CHARGING AND LABELING/8-充电和标签****Charging: N/A**

充电: N/A

**Charging Voltages and Currents: N/A**

充电电压和电流: N/A

**Labeling:** If the ATL label or package warnings are not visible, it is important to provide a package and/or device label stating.

标签: 标签或包装的警告是不可以不可见的, 切记最重要的是提供包装和标签说明。

**WARNING:** Do not dispose of in fire or short circuit.

警告: 不要置于火中或者使其短路。

**Disposal:** Dispose in accordance with all applicable federal, state and local regulations.

废弃处置: 处理按照所有适用的联邦、州和地方法规。

**9-PHYSICAL AND CHEMICAL PROPERTIES/9-物理和化学性质**

Physical state: 物理状态:	Solid 固体	Solubility in water: 水溶性:	Not Applicable 未见
Color: 颜色:	White 白色	Vapor pressure: 气压:	Not Applicable 未见
Odor: 气味:	No 无	Explosion limit: 爆炸极限:	Not Applicable 未见
Flashpoint: 导火线:	Not Applicable 未见	Auto flammability: 自燃性:	Not Applicable 未见
Solubility in ethanol soluble 酒精溶解度:	Not Applicable 未见	Melting Point: 熔点:	Not Applicable 未见
Boiling Point: 沸点:	Not Applicable 未见	Freezing Point: 凝固点:	Not Applicable 未见



## 10-STABILITY AND REACTIVITY/10-稳定性和反应性

Keep batteries between  $-30^{\circ}\text{C}$  and  $35^{\circ}\text{C}$  for prolong storage. This product has no Significant reactivity hazard.

请将电池保持在 $-30^{\circ}\text{C}$ 至 $35^{\circ}\text{C}$ 之间，以延长储存时间。本品无明显的反应性危险。

**Reactivity:** Avoid contact with water and acids.

**反应性:**避免与水和酸接触。

**Hazardous decomposition products:** If plastic enclosure and Al foil of battery is damaged,the battery should avoid to contact strong oxidizer,acids and high temperature,and the electrolyte will be formed HF.

**危险分解产物:**如果电池塑料外壳和铝箔被损坏，电池应避免接触强氧化剂、酸和高温，电解液会形成HF。

## 11-TOXICOLOGICAL INFORMATION/11-毒理学信息

Under normal conditions of use,the battery is toxicological sealed. So void to open and damage battery directly. Inhalation,skin contact and eye contact are possible when the battery is opened. Exposure to internal contents,the corrosive fumes will be very Irritation to skin,eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

在正常情况下使用，电池的毒理性是封闭的，请勿直接打开或者损坏电池。电池打开是有可能吸入，接触皮肤，或者接触眼睛。接触到内部、腐蚀性气味会刺激皮肤,眼睛和粘膜，曝光过度会导致肺损伤或者膜发炎的症状。

## 12-ECOLOGICAL INFORMATION/12-生态信息

**Ecological toxicity:**

Proper use and disposal of batteries do not pose a hazard to the environment. When disposing of waste batteries, keep away from water sources, rain and Snow.

If the battery is dead, it should be selected and disposed of by a professional company.

**生态学毒性:**

正确使用和处置电池不会对环境产生危害。处置废弃电池时，远离水源，雨水和雪水。



如果电池报废, 应该选择并由专业公司处理。

### 13-DISPOSABLE CONSIDERATIONS/13-处置注意事项

Do not dispose of battery into environment or sewerage.

请勿将电池丢入环境或下水道。

It should be recycled and disposed basing on your local legislation and regulations.

电池应该回收, 处理问题应遵照当地法规。

### 14-TRANSPORT INFORMATION/14-运输信息

Alkaline batteries are considered "dry" batteries, and their transportation is not regulated by the U.S. Department of Transportation (DOT), the International Civil Aviation Authority (ICAO), the International Air Transport Association (IATA), and the International Maritime Dangerous Goods Regulations (IMDG).

The only DOT requirement for the transportation of these batteries is special Regulation 130, which states: "Dry batteries are exempt from the requirements of this subchapter only if they are provided for transportation in a manner that prevents the dangerous dissipation of heat." Effective insulation of bare terminals).

碱性电池被视为“干电池”电池, 美国运输部 (DOT), 国际民用航空管理局 (ICAO), 国际航空运输协会 (IATA) 和《国际海上危险货物条例》均未对其运输进行监管 (IMDG)。运输这些电池的唯一 DOT 要求是特殊规定 130, 其中规定: “干电池只有在以防止热量危险散发的方式提供运输时, 才不受本章节的要求。裸露端子的有效绝缘)。

The only requirement for the transport of these batteries by ICAO and IATA is special Regulation A123, which states: "Batteries or battery-powered devices that are not prepared to prevent a short circuit (for example, a short circuit in a storage battery) with potentially dangerous heat emission." In the case of batteries, effective insulation through exposed terminals; Or, in the case of devices, by disconnecting the battery, do not transport bare terminals."

Starting from 1/1/97, the International Air Transport Association (IATA) requires that batteries transported by air be protected from short circuits and that their movement be prevented from causing short circuits.

国际民航组织和国际航空运输协会运输这些电池的唯一要求是特殊规定 A123, 该规定规定: “未准备好防止短路 (例如, 在蓄电池中短路) 的具有潜在危险的热量散发的电池或电池供电的设备。如果是电池, 则通过裸露的端子的有效绝缘; 或者如果是设备, 是通过断开电池的连接, 则禁止运输裸露的端子。”从 1/1/97 开始, 国际航空运输协会 (IATA) 要求保护被空气运输的电池不会短路, 并防止其移动而导致短路。



This item does not belong to any category of dangerous goods and is not subject to IMO IMDG CODE restrictions.

该物品不属于任何类别的危险物品，不受 IMO IMDG CODE 限制。

## 15-REGULATORY INFORMATION/15-法规信息

### Law information/法律信息:

《Dangerous Goods Regulations》/《危险品条例》

《Recommendation on the Transport of Dangerous Goods Model Regulations》/《关于危险货物运输的示范条例的建议》

《International Maritime Dangerous Goods》/《国际海上危险货物》

《Technical Instructions for the Safe Transport of Dangerous Goods》/《危险货物安全运输技术规程》

《Classification and code of dangerous Goods》/《危险品分类及代码》

《Occupational Safety and Health Act》(OSHA)/《职业安全与健康法》(OSHA)

《Toxic Substance Control Act》(TSCA)/《有毒物质控制法》(TSCA)

《Consumer Product Safety Act》(CPSA)/《消费品安全法》(CPSA)

《Federal Environmental Pollution Control Act》(FEPCA)/《联邦环境污染控制法》(FEPCA)

《The Oil Pollution Act》(OPA)/《石油污染法》(OPA)

《Superfund Amendments and Reauthorization Act Title III(302/311/312/313)》(SARA)/《超级基金修正案和重新授权法》第三章(302/311/312/313)(SARA)

《Resource Conservation and Recovery Act》(RCRA)/《资源保护与恢复法》(RCRA)

《Safety Drinking Water Act》(CWA)/《安全饮用水法》(CWA)

《California Proposition 65》/《加州 65 号提案》

《Code of Federal Regulations》(CFR)/《联邦法规代码》(CFR)

In according 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 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.

以上信息被认为是准确的，并且代表了我們目前可獲得的最佳信息。但是，協和對這些信息不提供任何適銷性或任何其他明示或暗示的保證，並且我們對因使用這些信息不承擔任何責任。用戶應自己進行調查，以確定信息是否適合其特定目的。儘管在準備此處包含的數據時已採取了合理的預防措施，但僅供參考，考慮和調查。該材料安全數據表提供了安全操作和使用本產品的準則；它沒有也不能在所有可能的情況下提供建議，因此，應評估您對本產品的特定用途，以確定是否需要採取其他預防措施。

**The MSDS was prepared by : Shenzhen HSO. Test Technology Co., Ltd.**

**MSDS编写: 深圳华晟欧测试技术有限公司**

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