

Safety Data Sheet

This sheet is only provided as technical information and is referred normal use of the product in question. Pairdeer makes no warranty expressed or implied.

Section 1-Product and Company Identification

| | |
|---|--|
| ● Product Name Alkaline zinc-manganese dioxide batteries | Sizes 6LR61 |
| ● Company: NingboGP & Sonluk Battery Co.,Ltd. | Telephone Numbers: +86 574 87910000 |
| ● Address: No.600 Qingfeng Road, Cicheng Town, Jiangbei District, Ningbo, Zhejiang, China | Date of preparation Jan.1,2025 |

Section 2-Hazards Identification

This contains potassium hydroxide solution (KOH), and other combustible materials, all sealed in steel can. For this reason,improper handling of the battery could lead to distortion,leakage*,overheating,explosion and cause human injury or equipment trouble. Please strictly observe safety instructions.

(*leakage is defined as an unintended escape of liquid from a battery.)

Results of PBT and vPvB assessment:

PBT: NA

vPvB: NA

Determination of endocrine-disrupting properties:NA

Section 3-Composition/Information on Ingredients

| Ingredient | CAS# | ApproximateContent(wt%) |
|---------------------------------------|------------|-------------------------|
| Manganese Dioxide (MnO ₂) | 1313-13-9 | 32.5 |
| Zinc (Zn) | 7440-66-6 | 11.0 |
| Water (H ₂ O) | 7732-18-5 | 5.0 |
| Potassium Hydroxide (KOH) | 1310-58-3 | 4.0 |
| Graphite | 7782-42-5 | 1.5 |
| Brass | 12597-71-6 | 3.5 |
| Steel | 12597-68-1 | 21.5 |
| Ni-plating | 7440-02-0 | 0.3 |
| Nylon | 9008-66-6 | 0.9 |
| Cellulose microcrystalline | 9004-34-6 | 0.9 |
| Poly(butylene terephthalate) | 26062-94-2 | 4.5 |
| Fe | 7439-89-6 | 13.5 |
| PVC | 9002-86-2 | 0.9 |

Section 4-First Aid Measures

None unless internal materials exposure. If contents are leaked out,observe following instructions

- Inhalation Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.
- Skin Immediately flush skin with plenty of water. If itch or irritation by chemical burn persists,consult a physician.
- Eyes Immediately flush eye with plenty of water for at least 15 minutes. Consult a physician immediately
- Ingestion If swallowing a battery,consult a physician immediately.
If contents come into mouth, immediately rinse by plenty of water and consult a physician.

Section 5-Fire Fighting Measures

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.Fire fighters should wear self-contained breathing apparatus.



Section 6-Accidental Release Measures

Steps to be taken in case material is released or spilled.

Batteries that are leakage should be handled with rubber gloves.

Avoid direct contact with electrolyte.

Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).

Section 7-Handling and Storage

1) Handling

Never swallow. Never charge. Never heat. Never expose to open flame. Never disassemble. Never reverse the positive and negative terminals when mounting. Never short-circuit the battery. Never weld the terminal or wire to the body of the battery directly. Never use different batteries together. Never touch the liquid leaked out of battery. Never bring fire close to battery liquid. Never keep in touch with battery.

2) Storage

Never store the battery in hot and high humid place.

Section 8-Exposure Controls/Personal Protection

No engineering measure is necessary during normal use. If internal cell materials are leaked, the information in Section 4 & Section 6 will be useful.

Section 9-Physical/Chemical Characteristics

Nominal Voltage: 9.0V

Section 10-Stability and Reactivity

| | |
|---------------------------------------|----------------|
| Stability | Stable |
| Hazardous polymerization | Will not occur |
| Condition to avoid | See section 7. |
| Hazardous Decomposition or Byproducts | Hydrogen |

Section 11-Toxicological Information

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Endocrine disrupting properties: None of the ingredients is listed.

Section 12-Ecological Information

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available..

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment:

PBT: NA

vPvB: NA

Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

Section 13-Disposal condition

The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation. As electric capacity is left in a discarded battery and it comes into contact with other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+)and (-) terminals with friction tape or some other insulator before disposal.

Section 14-Transportation Information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Pairdeer alkaline batteries has been designed to be compliant



with these regulatory concerns.

Alkaline batteries (sometimes referred to as “Dry cell” batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

| Regulatory Body | Special Provisions |
|-----------------|------------------------------|
| ADR | Not regulated |
| IMDG | Not regulated |
| UN | Not regulated |
| US DOT | 49 CFR 172.102 Provision 130 |
| IATA | A123 |
| ICAO | Not regulated |

All Pairdeer alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the 2025 IATA (66th edition) Dangerous Goods Regulations and ICAO Technical Instructions require the words “not restricted” and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

Section 15-Regulatory Information

USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996: No mercury added

REGULATION (EU) 2023/1542 Batteries and Waste Batteries: Pairdeer batteries are compliant with all aspects of the Directive

Section 16-Other Information

If you want further information, please contact Pairdeer sales representative

Prepared by: 冯晓波 Checked by: 





运输危险性鉴定书

Hazard Classification and
Identification Report for Transport of Goods

非限制性货物

样品名称 : 6LR61 无汞碱性锌锰电池

Sample Name: 6LR61 ALKALINE BATTERY

委托单位 : 宁波金山双鹿电池有限公司
NINGBO GP&SONLUK BATTERY CO., LTD.

生产单位 : 宁波金山双鹿电池有限公司
NINGBO GP&SONLUK BATTERY CO., LTD.



上海化工院检测有限公司
SHANGHAI INSTITUTE OF CHEMICAL INDUSTRY TESTING CO.,LTD.



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Hazard Classification and Identification Report
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| | | |
|--|---|------------------------|
| 样品名称 Sample Name | 中文 Chinese | 6LR61 无汞碱性锌锰电池 |
| | 英文 English | 6LR61 ALKALINE BATTERY |
| 委托单位 Applicant | 宁波金山双鹿电池有限公司 NINGBO GP&SONLUK BATTERY CO., LTD. | |
| 生产单位 Manufacturer | 宁波金山双鹿电池有限公司 NINGBO GP&SONLUK BATTERY CO., LTD. | |
| 检验方法、程序 Inspection Methods and Procedures | 国际海事组织《国际海运危险货物规则》(2022版) IMO International Maritime Dangerous Goods Code (2022 Edition) | |
| 样品外观与气味 Appearance & Odor | 多种颜色塑料薄膜外壳, 无臭 Multicolor Plastic film shell, odorless | |
| IDENTIFICATION 结论 | 1. 危险性识别 (Hazards identification) 无。 None. | |
| | 2. 海运按照IMO IMDG Code办理的类型 (Suggestion according to IMO IMDG Code) 可按非限制性货物条件办理。 The product is not subject to IMO IMDG Code. | |
| | 3. 包装类别 (Packing Group) 无。 None. | |
| 备注 Comment | 检验日期: 2024-12-06 Inspection Date: 2024-12-06 签发日期: 2024-12-06 Issue Date: 2024-12-06 生效日期: 2025-01-01 Effective Date: 2025-01-01 | |

批准
Approver:

王景

审核
Checker:

董学佳

主检
Appraiser:

钱玉婷



运输危险性鉴定书

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| 鉴定项目 Identification Items | 鉴定结果 Identification Results |
|---|--|
| 爆炸危险性鉴定 Identification of Explosive Hazards | 本品不属于爆炸品。 The product is not classified in Explosives. |
| 易燃危险性鉴定 Identification of Flammable Hazards | 本品不属于易燃危险品。 The product is not classified in Flammable Substances. |
| 氧化危险性鉴定 Identification of Oxidative Hazards | 本品不属于氧化剂和有机过氧化物。 The product is not classified in Oxidizing Substances and Organic Peroxides. |
| 毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards | 本品不属于毒害品和感染性物质。 The product is not classified in Toxic and Infectious Substances. |
| 放射危险性鉴定 Identification of Radioactive Hazard | 本品无放射危险性。 The product is not classified in Radioactive Material. |
| 腐蚀危险性鉴定 Identification of Corrosive Hazard | 本品不属于腐蚀品。 The product is not classified in Corrosives. |
| 其他危险性鉴定 Identification of other Hazards | 电池必须具有适当的防短路措施,若是以电池为动力的装置、设备或车辆还须采取有效的防止意外启动措施。 The battery must be protected appropriately to prevent a short circuits and any battery powered device, equipment or vehicle must be effectively prepared to prevent unintentional activation. |

-验证码:940881-



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