

# Changzhou Daily-max Battery Co. Ltd

## MATERIAL SAFETY DATE SHEET

Product: Alkaline Battery (LR03/LR6/LR14/LR20/6LR61/LR1)

No.: MSDS—1012.1

### 1. Chemical Product & Manufacturer data

Product Name: Alkaline Manganese Dioxide			
Supplier :Changzhou Daily-max Battery Co. Ltd			
Brand: (Chinese) 达立, (English) Daily-max			
Address:187.HuaiDe Zhong Road Changzhou,Jiangsu,China Tel:0086-519-83270474; Post Code:213016			
Contact	Sheet charged by:	Sheet drawn by:	Revision: B
Tel: 0519-83270474 Fax: 0519-83270425	Daily-max Quality Management Department	Name: Wubo.Tong Date: 2012.01.05	Classification: Reference document

### 2. Danger summary

Alkaline battery are not belonged to dangerous goods. They are safe under normal conditions. However, if under specific environment, such as discarded in fire or recharged or used improperly, or it could exposure. The ingredient and their combustion could be harmful .

### 3. Composition /Information on Ingredients:

purity  compound

Component	Content(%wt)	CAS NO.
Zn	25%	7440-66-6
MnO <sub>2</sub>	45%	1313-13-9
Fe	20%	7439-89-6
KOH	10%	1310-58-3

### 4. Hazards identifications

Incursion track	Improper use, inside substance splashes into eye or swallow
*environment effect	No pollution
*Physical & chemical harmness	High temperature, recharge or fire them may cause leakness even explosion

### 5. First -aid measures

●Swallow:	Rush to hospital urgently
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### 6. Fire-fighting measures

Suitable extinguishing media	No specific requirement
Extinguishing media not to be used	No specific requirement

### 7. Accidental release measures

Battery is solid body, and safe for normal conditions. If any accident happens, it may leak. So the inside substance has some corrosive characteristics. Please clean with water if contact with human body.

### 8. Handling and storage

Keep in cool dry place. Far from fire, heat, and long-time solarization.

### 9. Physical and chemical properties

### 10. Ecological information

Environment	No pollution and belong to green environment-friendly products.
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Material state	Solid
Appearance/color	Silver white
smell	None
Melting point	---
Water-solubility	---
PH:	---
Volatility	---
Main purpose	Supply for various electric appliance such as radio, toys, remote controller, glim and etc.

### 11. Contact control personal protection

Safe for normal contact and no need for protection

### 12. Toxicological information

Toxicological	None
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### 13. Stability and Reactivity

### 14. Disposable considerations

Discard deal with	Contact with battery return deaprtment
Satefty	Stable
Possible harm reaction	no
Condition prevention	Manmade shprt-circuit,dismantle, fall ,put into fire, high heatness and high humidity
Material preventation	---
Harmful resolve	---

### 15. Transport Information IATA EDITION 53RD,2012

In general, all batteries in all forms of transportation (ground, air or ocean) must be packaged in a safe and responsible manner that prevent short circuits and be contained in “ strong outer packaging” that prevents spillage of contents. All original packaging for alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes refers to “ dry cell batteries”) are not listed as dangerous goods under the IMO regulations, IATA dangerous goods regulations, ICAO technical instructions and the U.S. HAZARDOUS MATERIALS REGULATIONS ( 49 CFR). These batteries are not subject to dangerous goods regulations provided they meet the requirements provided in the following special provisions. Special provision in A123 in IATA dangerous goods regulations and ICAO technical instructions and Special provision 130 in 49 CFR 172.102 of the U.S hazards materials regulations required alkaline batteries are packed in such a way to prevent short circuits or generating a dangerous qty of heat. In addition, IATA dangerous goods regulations and ICAO technical instructions require the words “ not restrict” and the special provision number A123 be provided on the air waybill, when an air waybill is issued.

### 16. Laws regulation

Refer to:	National standard GB8897.2-2008, Battery instruction 2006/66/EC
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### 17. Other information

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Refer to	GB8897.1
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This information applies only to the specified material, this information is up to Daily-max battery before the date shown in the product in all the awareness and believe that the accuracy and reliability. However, the accuracy of information, reliability and integrity are of non-committal. Users should use the information according to their suitability and completeness of further confirmation.