



浙江野马电池有限公司
ZHEJIANG MUSTANG BATTERY CO.,LTD.

MATERIAL SAFETY DATA SHEET

LR03 AAA (STANDARD) ALKALINE BATTERY 1.5V

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LR03 AAA (STANDARD) ALKALINE BATTERY 1.5V

Manufacturer: ZHEJIANG MUSTANG BATTERY Co.,LTD

Add: No.818,Rongji Road, Luotuo, Zhenhai, Ningbo, China

Fax: 0086-574-86593227

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2. Information on Ingredients

Product Nature:LR03 AAA (STANDARD) ALKALINE BATTERY 1.5V

Ingredient	Concentration	CAS No.	EC No.
Manganese Dioxide	35.0%	1313-13-9	215-202-6
Zinc	15.5%	7440-66-6	231-175-3
Potassium hydroxi	5.0%	1310-58-3	215-181-3
Graphite	2.4%	7782-42-5	231-955-3

3.Hazards identification

Hazards Identification: The battery is not restricted to IATA DGR according to special provision A123 and is not restricted to IMDG CODE according to special provision 304.

Emergency Overview: Avoid contact and inhalation the internal materials. Emit toxic fumes under fire conditions.

4. First-aid measures

Skin Exposure: If the internal battery materials of an opened battery cell come into contact with the skin,immediately flush with plenty of water.

Eye Exposure: In case of contact with eyes , flush with copious amounts of water for at least 15 minuters.Assure adequate flushing by separating the eyelids with fingers.Call a physician.

Inhalation Exposure: If potential for exposure to nickel fumes or dusts occurs,remove immediately to fresh air and seek medcial attention.

Oral Exposure: If swallowed,do not induce vomiting. Seek immediate medical attention.

5.Fire-fighting measures

Extinguishing Media: Suitable:Dry chemical,Carbon dioxide and appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

6.Accidental release measures

Procedures of personal precautions:

Exercise appropriate precautions to minimize direct contact with skin and eyes.

Methods for cleaning up:

Sweep up with spade, place into a dry, clean, lidded container for disposal.Avoid raising dust.Ventilate area and wash spill site after material pickup is complete.



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14. Transport information

IATA: Not restricted to IATA DGR according to special provision A123.

IMO: Not restricted to IMDG CODE according to special provision 304.

15. Regulatory information

Manganese Dioxide Battery is unregulated for purpose of transportation by U.S. Department of Transportation(DOT), International Civil Aviation Administration (ICAA), International Air Transport Association (IATA) and the International Maritime Dangerous Goods regulations (IMDG).

The only DOT requirement for shipping these batteries is Special Provision 130 which states: "Batteries, dry, are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals)."

The only requirements for shipping these batteries by ICAO and IATA is Special Provision A123 which states: "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) is forbidden from transportation."

The International Maritime Dangerous Goods Code(IMDG) regulate them for ocean transportation under Special Provision 304 which says: "Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provisions of this Code provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: alkaline-manganese, zinc-carbon, nickel metal hydride and nickel-cadmium batteries".

The requirements for shipping these batteries, in all modes of transportation, are that they be separated from each other to prevent short-circuits. And to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation.

16. Other information

Other Information

The MSDS is prepared in accordance with ISO 11014-1:1994.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make 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. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.