



Report ID: MRI3HHVG4927187U3

2024年1月1日生效

MSDS

Sample Name & Model

ALKALINE Zn-Mn DRY BATTERY LR6

Applicant

SHENZHEN JIANGDA INDUSTRIAL CO.,LTD

Address

22D, NO.3 city sun gardens, NO.6017 Shennan Road, Futian District, Shenzhen





No.: MRI3HHVG4927187U3

Code: RuaYc8





- 1. 本报告无检验检测专用章、报告骑缝章和批准人签章无效。 This report is invalid without special seal for inspection and test, cross-page seal and signature of the approver.
- 2. 本报告页面所使用"PONY"、"谱尼"字样为本单位的注册商标,其受《中华人民共和国商标法》保护,任何未经本单位授权的擅自使 用和仿冒、伪造、变造"PONY"、"谱尼"商标均为违法侵权行为,本单位将依法追究其法律责任。

The words "PONY" and "请龙" used in this report page are the registered trademarks of the company, which are protected by the Trademark Law of the People's Republic of China. Any unauthorized use, counterfeiting, forging or altering of the trademarks of "PONY" and "清足" without the authorization of the company is an illegal infringement, and the company will investigate their legal liabilities according to law.

- 3. 委托单位对报告数据如有异议,请于报告完成之日起十五日内向本单位书面提出复测申请,同时附上报告原件并预付复测费。 If the applicant has any objection to the report data, please submit a written application for retesting to PONY within 15 days after the completion of the report, with the original report attached and the retesting fee prepaid.
- 4. 不可重复性或不能进行复测的实验,不进行复测,委托单位放弃异议权利。 If the experiment cannot be repeated or cannot be retested, no retest shall be conducted, and the appliant shall waive the right of objection.
- 5. 委托单位必须保证送至本公司的样品及资料与真实的出运货物相一致、如有不符、所涉及的法律责任及其他后果均由委托单位自行承担。 The client must guarantee that samples and documents provided for appraisal are consistent with the goods to be transported. Otherwise, the client shall bear all legal responsibilities and other consequences due to it.
- 6. 本报告仅对所测样品的检测结果负责,检测结果及其相关判定结论仅反映对所测样品的评价或只代表检测时污染物的排放状况。对于报 告及所载内容不能进行商业广告宣传使用,使用所产生的直接或间接损失及一切法律后果,本单位不承担任何经济和法律责任。

This report is only responsible for the test results of the tested samples, The test results and relevant conclusions reflect the evaluation of the tested samples or only represent the emission status of pollutants during the test. The report and the contents contained in it cannot be used for commercial advertising, and PONY does not assume any economic and legal liabilities for direct or indirect losses and all legal consequences arising from the use.

- 7. 本单位有权在完成报告后接规定方式处理所测样品、除客户特别声明并支付样品管理费、所有超过标准规定时效期的样品均不再做留样。 PONY has the right to dispose the tested sample after approval of the test report. Unless the applicant specifically declares and pays the sample management fee, all samples beyond the validity period specified in the standard will not be retained,
- 8. 本单位保证工作的客观公正性,对委托单位的商业信息、技术文件等商业秘密履行保密义务。 PONY assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information, and technique document.
- 9. 本报告私自转让、盗用、冒用、涂改、未经本单位批准的复制(全文复制除外)或以其它任何形式的篡政均属无效,本单位将对上述行为 严究其相应的法律责任。

......

Any unauthorized transfer, appropriation, falsification, alteration, copying (except full text copying) or alteration in any other form of this report without the approval of PONY shall be invalid. PONY shall strictly investigate the corresponding legal liability for the aforesaid behavior.

10. 本报告不考虑国家及经营人差异。

The certificate/report takes no account of the differences of countries and applicants.

▲防伪说明:

1.报告编号是唯一的;

The report number is unique.

2.扫描报告首页下方二维码或登录网站(http://www.ponytest.com/),即可查询报告真伪。

Scan the QR code below the first page or Log on to the website(http://www.ponytest.com/)to check the authenticity of the report.







北京实验室:(010)83055000 郑州实验室:(0371)69350670 成都谱尼计量实验室(028)87702708 宁波实验室:(0574)87736499 北京谱尼科技公司: (010) 80415661 郑州谱尼职业卫生公司: (0371) 80967099 贵州实验室: (0851) 85221000 合肥实验室: (0551) 63843474 北京港尼計量实验室:(010) 82492998 新疆实验室:(0991) 6684186 上海实验室:(021) 64851999 深圳实验室:(0755) 26050909

青岛实验室: (0532)88706866 石家庄实验室: (0311)85376660 苏州实验室: (0512)62997900 深哨部慢搬途 (0755)26050909-846

天津实验室:(022)23607888 西安实验室:(029)89608785 苏州汽车座椅实验室及儿童安全座椅 谱尼深圳通测:(0755)27673339 长春实验室: (0431)80530198 西安郎信息科技有限公司: (029)81123093 碰撞实验室: (0512)62997900 广州实验室: (020)89224310 沈阳实验室: (024) 22811886 西安查德城克锡技术公司: (029) 85729073 武汉实验室: (027) 83997127 南宁实验室: (0771) 5518818 大连实验室: (0411)87336618 呼和浩特实验室: (0471)3450025 武汉车附所: (027)82318175 厦门实验室: (0592)5568048

哈尔滨实验室: (0451)58627755 成都实验室: (028)87702708 杭州实验室: (0571)87219096



Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 1 of 9

Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.10 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Name: ALKALINE Zn-Mn DRY BATTERY

Sample Model: LR6

Recommended Uses: N/A Restrictions on Use: N/A

Supplier Name: SHENZHEN JIANGDA INDUSTRIAL CO.,LTD

Address: 22D, NO.3 city sun gardens, NO.6017 Shennan Road, Futian District, Shenzhen

Phone Number: 0755-82048196

FAX: 0755-82047726

E-mail: jiangda@jd-batt.com

Emergency Phone Number: 0755-82048196

Section 2 - Hazards Identification

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

Classification according to GHS

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

Hazardous to the aquatic environment, long-term hazard (2)

Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation



Hotline 400-819-5688 Pony Testing Group Shenzhen Co., Ltd.

www.ponytest.com

Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China Tel: 0755-26050909 Fax: 0755-26068336



Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 2 of 9

H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s):

Prevention:

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty water.

P321 Specific treatment (See additional emergency instructions).

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER, if you feel unwell.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

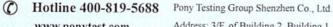
Physical and chemical hazards: See Section 10

Human health hazards: See Section 11 Environmental hazards: See Section 12

Section 3 - Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Manganese dioxide	1313-13-9	215-202-6	45





Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 3 of 9

Zinc	7440-66-6	231-175-3	18
Potassium hydroxide	1310-58-3	215-181-3	16
Iron	7439-89-6	231-096-4	19
SEPARATOR PAPER			2

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder, CO₂.

Unsuitable extinguishing media:

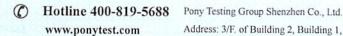
No data available.

Specific Hazards arising from the chemical:

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Some may burn but none ignite readily. Containers may explode when heated. Some may be transported hot.

Specific protective actions for fire-fighters:





Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 4 of 9

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Protective equipment:

No data available.

Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

For all waste handing must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
1313-13-9	N/A	N/A	N/A
7440-66-6	N/A	N/A	N/A
1310-58-3	TLV-Peak 2mg/m ³	REL-Peak 2mg/m ³	N/A



Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 5 of 9

7439-89-6	N/A	N/A	N/A

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment:

Respiratory protection: Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

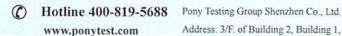
Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour: Silver and blue. Physical State: Cylindrical. Odour: Not available. pH: Not available. Melting point/freezing point: Not available. Not available. Boiling point or initial boiling point and boiling range: Flash Point: Not available. Not available. Flammability: Not available. Solubility: Not available. Lower and upper explosion limit/flammability limit: Auto-ignition temperature: Not available. Decomposition temperature: Not available. Kinematic viscosity: Not available. Partition coefficient: n-octanol/water (log value): Not available. Vapour pressure: Not available. Density and/or relative density: Not available. Relative vapour density: Not available.



Particle characteristics:

Not available.

Tel: 0755-26050909

Fax: 0755-26068336



Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 6 of 9

Other information:

1.5V Voltage

260mAh **Electric capacity**

Section 10 - Stability and Reactivity

Reactivity: No data available. Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatible materials: Oxidizing agents, acid base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

Section 11 - Toxicological Information

Acute Toxicity:

to restroity.			
CAS No.	LC50/LD50		
1313-13-9	No data available.		
7440-66-6	LD50 Rat (oral): >2000mg/kg		
1310-58-3	LD50 Rat (oral): 284mg/kg		
7439-89-6	No data available.		

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available. Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

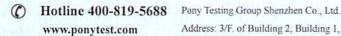
Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available. Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available. Skin: No data available. Ingestion: No data available. Inhalation: No data available.





Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 7 of 9

Section 12 - Ecological Information

Ecological Toxicity: CAS# 7440-66-6

ErC50: 0.15 mg/L - Algae (Pseudokirchneriella subcapitata) - 72h

Persistence and degradability: No data available. Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

Section 13 - Disposal Considerations

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN or ID Number	
IATA, IMDG, Model Regulation	N/A
Proper Shipping Name/Description	
IATA, IMDG, Model Regulation	N/A
Class or Div. (Sub Hazard)	
IATA, IMDG, Model Regulation	Not Subjected for transport of dangerous goods
Packing Group	
IATA, IMDG, Model Regulation	N/A
Hazard Label	
IATA, IMDG, Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	No information available.

Transport information: ALKALINE Zn-Mn DRY BATTERY LR6 is exempt from dangerous goods. It is considered non-dangerous goods by the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 65th, IATA Special Provisions A123, International



Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 8 of 9

Martine Dangerous Goods Regulations (IMDG) (41-22), or the << Recommendations On The Transport Of Dangerous Goods-Model Regulations (23rd).

S.P.A123 This entry applies to Batteries, electric storage, not otherwise listed in Subsection 4.2-List of Dangerous Goods. Examples of such batteries are: alkali-manganese, zinc-carbon and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent (a) 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); and (b) accidental activation

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

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

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
1313-13-9	Listed	Listed	Listed DSL	Listed
7440-66-6	Listed	Listed	Listed DSL	Listed
1310-58-3	Listed	Listed	Listed DSL	Listed
7439-89-6	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Date: 2023-11-30

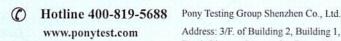
Issue Department: Technical department

Modification record: Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or

completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





Report No.: MRI3HHVG4927187U3 Date: 2023-11-30 Page 9 of 9

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-short time exposure limit);

PC-TWA: (Permissible concentration-time weighted average);

IARC: (International Agency for Research on Cancer);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

IECSC: (Inventory of Existing Chemical Substances in China);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations)

Approver: Chunmei Zhang

End of report

