MSDS Report

Sample Description & Model
7# Alkaline Zn Mn dry cell LR03 AM4 AAA 1.5V

Applicant
DONG GUAN ANDALI ELECTRONIC CO., LTD

Address
No. 102, YUNHE East Ro3, South District, Dongguan City, China

No.: MOIMSOHT25137716
Code: n6da5jcb
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全国服务热线
400-819-5688
WWW.PONYTEST.COM

扫描二维码
关注谱尼测试微信
公众号PONY4008195688
Material Safety Data Sheet
Reference to ST/SG/AC.10/30/Rev.8 (GHs)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification
Sample Description: 7# Alkaline Zn Mn dry cell
Sample Model: LR03 AM4 AAA 1.5V
Recommended Uses: use for electronic product
Restrictions on Use: N/A
Supplier Name: DONG GUAN ANDALI ELECTRONIC CO., LTD
Address: No. 102, YUNHE East Ro3, South District, Dongguan City, China
Phone Number: 0769-22386515
FAX: 0769-22386535
E-mail: andali_00168@126.com
Emergency Phone Number: 0769-22386515

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)
Acute toxicity, inhalation:Dusts and mists (4)
Skin corrosion/irritation (1A, 1B, 1C)
Specific target organ toxicity, repeated exposure (2)
Hazardous to the aquatic environment, long-term hazard (2)

Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H302 Harmful if swallowed
H332 Harmful if inhaled
H314 Causes severe skin burns and eye damage
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s):

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dusts or mist.
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:
P330 Rinse mouth.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P363 Wash contaminated clothing before reuse.
P321 Specific treatment (See additional emergency instructions).
P391 Collect spillage.

Storage:
P405 Store locked up.

Disposal:
P501 Send contents to approved waste treatment plants.

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Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

<table>
<thead>
<tr>
<th>Chemical Composition</th>
<th>CAS No.</th>
<th>EC#</th>
<th>Weight (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese Dioxide</td>
<td>1313-13-9</td>
<td>215-202-6</td>
<td>39</td>
</tr>
</tbody>
</table>
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.
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, place 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

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1313-13-9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>TLV-Peak 2mg/m³</td>
<td>REL-Peak 2mg/m³</td>
<td>N/A</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>TLV-TWA 0.2mg/m³ REL-TWA 1mg/m³</td>
<td>REL-TWA 1mg/m³ PEL-TWA 0.1mg/m³ PEL-TWA 1mg/m³</td>
<td></td>
</tr>
<tr>
<td>7782-42-5</td>
<td>TLV-TWA 2mg/m³ REL-TWA 2.5mg/m³</td>
<td>PEL-TWA 15mppcf PEL-TWA 20mppcf</td>
<td></td>
</tr>
</tbody>
</table>

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 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: Blue & Silver.
Physical State: Cylindrical.
Odour: Not available.
Odour threshold: Not available.
PH: Not available.
Melting point/freezing point: Not available.
Initial boiling point and boiling range: Not available.
Flash Point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosion Limits (vol% in air): Not available.
Vapour pressure, kPa at 20°C: Not available.
Vapor density: Not available.
Density/Relative density (water = 1): Not available.
Solubility: Not available.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Other information:
Voltage: 1.5V
Electric capacity: 1000mAh

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:
<table>
<thead>
<tr>
<th>CAS No.</th>
<th>LC50/LD50</th>
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</thead>
<tbody>
<tr>
<td>1313-13-9</td>
<td>No data available.</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>LD50 Rat (oral): &gt;2000mg/kg</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>LD50 Rat (oral): 284mg/kg</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>No data available.</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>No data available.</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>No data available.</td>
</tr>
<tr>
<td>7782-42-5</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Skin irritation/corrosion:
Eye damage/irritation: No data available.
Respiratory or Skin sensitisation: No data available.
Reproductive 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.
Potential Health Effects: No data available.
Inhalation: No data available.
Skin contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Section 12 - Ecological Information

Ecological Toxicity: No data available.
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

<table>
<thead>
<tr>
<th>UN Number</th>
<th>IATA, IMDG, Model Regulation</th>
<th>N/A</th>
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</thead>
<tbody>
<tr>
<td>UN Proper shipping name</td>
<td>IATA, IMDG, Model Regulation</td>
<td>N/A</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>IATA, IMDG, Model Regulation</td>
<td>Not Subjected for transport of dangerous goods</td>
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<tr>
<td>Packing group</td>
<td>IATA, IMDG, Model Regulation</td>
<td>N/A</td>
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<tr>
<td>Packaging Sign</td>
<td>IATA, IMDG, Model Regulation</td>
<td>N/A</td>
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<tr>
<td>Environmental hazards</td>
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<td></td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Transport information: 7# Alkaline Zn Mn dry cell LR03 AM4 AAA 1.5V 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 6159, IATA Special Provisions A123, International Maritime Dangerous Goods Regulations (IMDG) (39-18), or the (Recommendations on the Transport of Dangerous Goods Model Regulations) (21st).

**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

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>TSCA</th>
<th>IECSC</th>
<th>DSL/NDSL</th>
<th>EINECS/ ELINCS/ NLP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1313-13-9</td>
<td>Listed</td>
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</table>

### Section 16 - Other Information

Issue Date: 2020-08-05

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.

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);
LC50: (Lethal concentration, 50 percent kill);
LD50: (Lethal dose, 50 percent kill);
IARC: (International Agency for Research on Cancer);
EC50: (Median effective concentration);
BCF: (Bioconcentration Factor);
BOD: (Biochemical oxygen demand);
NOEC: (No observed effect concentration);
NTP: (US National Toxicology Program);
RTECS: (Registry of Toxic Effects of Chemical Substances);
IATA: (International Air Transport Association);
IMDG: (International Maritime Dangerous Goods);
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);
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)

***End of report***