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Report No.: MDIKXQGN37062716

# MSDS Report

Sample Description  
& Model

Alkaline Battery LR6. AA. AM-3 1.5V

Applicant

SHENZHEN KUNTENG CO., LTD

Address

No.1 Factory, Oriental Hitech Park, Qiaoxiang West  
Rd., Nanshan District Shenzhen, China

No.: MDIKXQGN37062716  
Code: n756329i99

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## Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.6 (GHS)

### Section 1 - Chemical Product and Company Identification

#### Chemical product identification

**Sample Description:** Alkaline Battery

**Sample Model:** LR6. AA. AM-3 1.5V

**Recommended Uses:** N/A

**Restrictions on use:** N/A

**Supplier name:** SHENZHEN KUNTENG CO., LTD

**Address:** No.1 Factory, Oriental Hitech Park, Qiaoxiang West Rd., Nanshan District  
Shenzhen, China

**Phone number:** 0755-26755037

**FAX:** 0755-26755329

**E-mail:** 451010317@qq.com

**Emergency phone number:** 0755-26755037

### Section 2 - Hazards Identification

**Emergency overview:** This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance. This is a battery. In case of rupture: the below hazards exist.

**CAS#** 1313-13-9

#### Classification according to GHS

Specific target organ toxicity, repeated exposure (1) (respiratory system, nervous system, cardiovascular system)

#### Label elements

**Hazard pictogram(s):**

**Signal word:**

Danger

**Hazard statement(s):**
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H372 Causes damage to organs through prolonged or repeated exposure (respiratory system, nervous system, cardiovascular system)

**Precautionary statement(s):**

**Prevention:**

P260 Do not breathe dust, fume, gas, mist, vapours and spray.

P264 Wash skin and clothing thoroughly after handling.

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

**Response:**

P314 Get medical advice if you feel unwell.

**Storage**

None.

**Disposal:**

P501 Contents handling to approved waste treatment plants.

**CAS# 1310-58-3**

**Classification according to GHS**

Acute toxicity, oral (3)

Skin corrosion/irritation (1A, 1B, 1C)

Serious eye damage/eye irritation (1)

Specific target organ toxicity, single exposure (1) (respiratory system)

Aspiration hazard (1)

**Label elements**

**Hazard pictogram(s):**



**Signal word:** Danger

**Hazard statement(s):**

H301 Toxic if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H370 Causes damage to organs(respiratory system)

H304 May be fatal if swallowed and enters airways

**Precautionary statement(s):**

**Prevention:**

P264 Wash skin and clothing thoroughly after handling.

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

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P260 Do not breathe dust, fume, gas, mist, vapours, spray.

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

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.

P321 Specific treatment (See additional emergency instructions).

P330 Rinse mouth.

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.

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

P310 Immediately call a POISON CENTER.

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

P308 + P311 IF exposed or concerned: Call a POISON CENTER.

P331 Do NOT induce vomiting.

### Storage

P405 Store locked up.

### Disposal:

P501 Contents handling to approved waste treatment plants.

**CAS# 1314-13-2**

### Classification according to GHS

Reproductive toxicity (2)

Specific target organ toxicity, single exposure (1) (respiratory system, systemic toxicity)

Hazardous to the aquatic environment, long-term hazard (1)

### Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

H361 Suspected of damaging fertility or the unborn child

H370 Causes damage to organs (respiratory system, systemic toxicity)

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

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**Prevention:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P260 Do not breathe gas, mist, vapours and spray.
- P264 Wash skin and clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.

**Response:**

- P308 + P313 IF exposed or concerned: Get medical advice.
- P308 + P311 IF exposed or concerned: Call a POISON CENTER.
- P321 Specific treatment (See additional emergency instructions).
- P391 Collect spillage.

**Storage**

- P405 Store locked up.

**Disposal:**

- P501 Contents handling to approved waste treatment plants.

**CAS# 7440-66-6**
**Classification according to GHS**

Serious eye damage/eye irritation (2B)

Hazardous to the aquatic environment, long-term hazard (1)

**Label elements**
**Hazard pictogram(s):**

**Signal word:**

Warning

**Hazard statement(s):**

- H320 Causes eye irritation
- H410 Very toxic to aquatic life with long lasting effects

**Precautionary statement(s):**
**Prevention:**

- P264 Wash skin and clothing thoroughly after handling.
- P273 Avoid release to the environment.

**Response:**

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.

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

P391 Collect spillage.

#### Storage

None

#### Disposal:

P501 Contents handling to approved waste treatment plants.

**CAS# 7440-02-0**

#### Classification according to GHS

Sensitisation, respiratory (1, 1A, 1B)

Sensitisation, skin (1, 1A, 1B)

Carcinogenicity (2)

Specific target organ toxicity, repeated exposure (1) (respiratory system)

Hazardous to the aquatic environment, long-term hazard (4)

#### Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure (respiratory system)

H413 May cause long lasting harmful effects to aquatic life

Precautionary statement(s):

Prevention:

P284 [In case of inadequate ventilation] wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin and clothing thoroughly after handling.

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

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P273 Avoid release to the environment.

**Response:**

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

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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

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

P321 Specific treatment.

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

P308 + P313 IF exposed or concerned: Get medical advice.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P314 Get medical advice if you feel unwell.

**Storage**

P405 Store locked up.

**Disposal:**

P501 Contents or container handling to approved waste treatment plants.

**CAS# 7440-50-8**

**Classification according to GHS**

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

Specific target organ toxicity, repeated exposure (1) (liver)

Hazardous to the aquatic environment, long-term hazard (3)

**Label elements**

**Hazard pictogram(s):**



**Signal word:**

Danger

**Hazard statement(s):**

H335 May cause respiratory irritation

H372 Causes damage to organs through prolonged or repeated exposure (liver)

H412 Harmful to aquatic life with long lasting effects

**Precautionary statement(s):**

**Prevention:**

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

P260 Do not breathe dust.

P264 Wash skin and clothing thoroughly after handling.

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





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P273 Avoid release to the environment.

**Response:**

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

P312 Call a POISON CENTER or doctor, if you feel unwell.

**Storage**

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

**Disposal:**

P501 Contents or container handling 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	41.73
Graphite	7782-42-5	231-955-3	3.62
Potassium hydroxide	1310-58-3	215-181-3	8.26
Steel	12597-69-2	603-109-7	19.27
Diaphragm Paper	---	---	0.63
Zinc Oxide	1314-13-2	215-222-5	0.20
Zinc	7440-66-6	231-175-3	16.69
Indium trihydroxide	20661-21-6	243-947-7	0.01
Octadecanoic acid, calcium salt	1592-23-0	216-472-8	1.16
Sealing ring	---	---	4.76
Nickel	7440-02-0	231-111-4	1.54
Copper	7440-50-8	231-159-6	2.13
Indium	7440-74-6	231-180-0	

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## 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:

No data available.

## Section 5 - Fire Fighting Measures

### Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment .  
Such as dry powder , CO<sub>2</sub>.

### 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:

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:

All waste must refer to the United Nations, the 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:

Consumption of food and beverage should be avoided in work areas.

Wash hands with soap and water before eating, drinking.

Ground containers when transferring liquid to prevent static accumulation and discharge.

### Information about fire and explosion protection

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

### Conditions for safe storage, including any incompatibilities:

#### Requirements to be met by storerooms and receptacles

Store in a cool, dry, well-ventilated place.

#### Information about storage in one common storage facility

Keep away from heat, avoiding the long time of sunlight.

#### Further information about storage conditions

Keep container tightly sealed.

#### Specific and use





No data available.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

CAS No.	ACGIH	NIOSH	OSHA
1313-13-9	TLV-TWA 0.2mg/m <sup>3</sup>	N/A	N/A
7782-42-5	TLV-TWA 2mg/m <sup>3</sup>	REL-TWA 2.5mg/m <sup>3</sup>	PEL-TWA 15mppcf PEL-TWA 20mppcf
1310-58-3	TLV-Peak 2mg/m <sup>3</sup>	REL-Peak 2mg/m <sup>3</sup>	N/A
12597-69-2	N/A	N/A	N/A
1314-13-2	TLV-TWA 2mg/m <sup>3</sup> TLV-STEL 10mg/m <sup>3</sup>	REL-TWA 5mg/m <sup>3</sup> REL-STEL 10mg/m <sup>3</sup> REL-Peak 15mg/m <sup>3</sup>	PEL-TWA 5mg/m <sup>3</sup> PEL-TWA 15mg/m <sup>3</sup>
7440-66-6	N/A	N/A	N/A
20661-21-6	N/A	N/A	N/A
1592-23-0	TLV-TWA 10mg/m <sup>3</sup>	N/A	N/A
7440-02-0	TLV-TWA 1.5mg/m <sup>3</sup>	REL-TWA 0.015mg/m <sup>3</sup>	PEL-TWA 1mg/m <sup>3</sup>
7440-50-8	TLV-TWA 0.2mg/m <sup>3</sup> TLV-TWA 1mg/m <sup>3</sup>	REL-TWA 1mg/m <sup>3</sup> REL-TWA 0.1mg/m <sup>3</sup>	PEL-TWA 0.1mg/m <sup>3</sup> PEL-TWA 1mg/m <sup>3</sup>
7440-74-6	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 in order to reduce the respiratory system. A large number of leakage, wear chemical protective clothing, including self-contained breathing apparatus.

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

**Eyes 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

#### General information

Appearance:	Golden.
Form:	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(ies):	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

## 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.





**Incompatibilities materials:** Oxidizing agents, acid, base.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide.

## Section 11 - Toxicological Information

### Acute Toxicity:

CAS No.	LC50/LD50
1313-13-9	LD50 Rat (oral): 11710 mg/kg
7782-42-5	No data available.
1310-58-3	LD50 Rat (oral): 284mg/kg
12597-69-2	No data available.
1314-13-2	LD50 Rat (oral): >5000 mg/kg LC50 Rat (Inhalation: Dusts and mists): >5.7 mg/L
7440-66-6	LD50 Rat (oral): >2000mg/kg
20661-21-6	No data available.
1592-23-0	No data available.
7440-02-0	LD50 Rat (oral): ≥5000mg/kg
7440-50-8	No data available.
7440-74-6	No data available.

**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:

CAS# 1314-13-2

LC50: 0.098 mg/L -Crustacea (Daphnia magna) - 48h

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 Number	
IATA, IMDG, Model Regulation	N/A
UN Proper shipping name	
IATA, IMDG, Model Regulation	N/A
Transport hazard class(es)	
IATA, IMDG, Model Regulation	N/A
Packing group	
IATA, IMDG, Model Regulation	N/A
Packaging Sign	
IATA, IMDG, Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Not applicable.





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**Transport information: Alkaline Battery LR6. AA. AM-3 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 57<sup>th</sup>, IATA Special Provisions A123, International Maritime Dangerous Goods Regulations (IMDG) (37-14), or the 《Recommendations on the Transport of Dangerous Goods Model Regulations》 (19<sup>th</sup>).

**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.

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

**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
7782-42-5	Listed	Listed	Listed DSL	Listed
1310-58-3	Listed	Listed	Listed DSL	Listed
12597-69-2	Listed	Listed	Listed DSL	Listed
1314-13-2	Listed	Listed	Listed DSL	Listed
7440-66-6	Listed	Listed	Listed DSL	Listed

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20661-21-6	Listed	Listed	Listed DSL	Listed
1592-23-0	Listed	Listed	Listed DSL	Listed
7440-02-0	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7440-74-6	Listed	Listed	Listed DSL	Listed

## Section 16 - Other Information

Issue Time: 2016-01-21

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-time weighted average);

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

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);





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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\*\*\*