

# MSDS Report

Prepared For:	SHENZHEN GMCELL TECHNOLOGY CO.,LTD		
Address:	G Building, Hualian Panorama International Building, Xin'an Street, Bao'an District, Shenzhen, P.R.China		
Product Name:	Alkaline battery		
Model:	6LR61		
Parameters:	9V		
Weight:	Approx. 142.31g		
Dimension:	16.86mm×25.78mm×44.87mm (T×W×L)		
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Tested by:	<u>Qin hengning</u>	Approved by:	<u>Roc Cheng</u>
Position:	Test Engineer	Position:	Technical Manager
Inspected by:	<u>Cong chen</u>	Date of Issue:	2026-01-05
Position:	Project Engineer		

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

<i>Product Name:</i>	Alkaline battery
<i>Product Model:</i>	6LR61
<i>Manufacturer:</i>	SHENZHEN GMCELL TECHNOLOGY CO.,LTD
<i>Address:</i>	G Building, Hualian Panorama International Building, Xin'an Street, Bao'an District, Shenzhen, P.R.China
<i>Tel:</i>	+86-755-23114003
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<i>Emergency Tel:</i>	+86-755-23114003
<i>E-mail:</i>	info@gmcell.net

### Section 2 - Hazards Identification

<i>Classification of Danger</i>	See section 14.
<i>Primary Route(s) of Exposure</i>	Eye, skin contact, ingestion.
<i>Health Hazard</i>	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, with could cause casualty loss. Abuses include but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

### Section 3 – Composition/Information on Ingredients

Chemical Composition	CAS No.	Concentration or concentration ranges (%)
Zinc	7440-66-6	32.6
Manganese dioxide	1313-13-9	22.61

Iron	7439-89-6	16.93
Zinc	7440-66-6	14.56
Potassium hydroxide	1310-58-3	7.48
Graphite	7782-42-5	2.12
Copper	7440-50-8	1.86
Zinc	7440-66-6	
Zinc oxide	1314-13-2	0.49
Butanone	78-93-3	0.12
Calcium stearate	216-472-8	0.11
Other ingredients (water, paper, nylon,etc)	12125-02-9	1.12

Labeling according to EC directives.

No symbol and risk phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

#### Section 4 - First Aid Measures

<i>Eye</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin</i>	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
<i>Inhalation</i>	Remove from exposure and move to fresh air immediately. Use oxygen if available.
<i>Ingestion</i>	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

#### Section 5 - Fire Fighting Measures

<i>Characteristics of Hazard</i>	Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.
<i>Hazardous Combustion Products</i>	Carbon dioxide.
<i>Fire-extinguishing Methods and Extinguishing Media</i>	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.
<i>Attention in Fire-extinguishing</i>	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6 - Accidental Release Measures**

<i>Personal Precautions, protective equipment, and emergency procedures</i>	In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.
<i>Environmental Precautions</i>	Prevent product from contaminating soil and from entering sewers or waterways.
<i>Methods and materials for Containment</i>	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
<i>Methods and materials for cleaning up</i>	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

**Section 7 - Handling and Storage**

<i>Handling</i>	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
<i>Storage</i>	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.
<i>Other Precautions</i>	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

**Section 8 - Exposure Controls/Personal Protection**

<i>Engineering Controls</i>	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> total) should be observed.
<i>Personal Protective Equipment</i>	<p>Eye and Face Protection: None required for consumer use. If there is a risk of contact: Tight sealing safety goggles. Face protection shield.</p> <p>Skin and Body Protection: None required for consumer use. If there is a risk of contact: Wear protective gloves and protective clothing.</p> <p>Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</p>

**Section 9 - Physical and Chemical Properties**

<i>Physical State</i>	Appearance: Approximate Cuboid
	Color: Multi-colors
	Odour: If leaking, smells of medical ether.
<i>Change in condition</i>	
<i>pH</i>	Not applicable as supplied.
<i>Melting point/freezing point</i>	Not applicable as supplied.
<i>Initial boiling point and boiling range</i>	Not applicable as supplied.
<i>Flash Point</i>	Not applicable as supplied.
<i>Explosion Limits</i>	Not applicable as supplied.
<i>Vapour pressure</i>	Not applicable as supplied.
<i>Vapor density</i>	Not applicable as supplied.
<i>density/Relative density:</i>	Not applicable as supplied.
<i>Solubility</i>	Not applicable as supplied.
<i>Partition coefficient: n-octanol/water</i>	Not applicable as supplied.
<i>Auto-ignition temperature</i>	Not applicable as supplied.
<i>Decomposition temperature</i>	Not applicable as supplied.
<i>Odour threshold</i>	Not applicable as supplied.
<i>Evaporation rate</i>	Not applicable as supplied.
<i>Flammability (solid, gas)</i>	Not applicable as supplied.

#### Section 10 - Stability and Reactivity

<i>Chemical Stability</i>	Stable.
<i>Possibility of Hazardous Reactions</i>	Not Available.

<i>Conditions to Avoid</i>	Flames, sparks, and other sources of ignition, incompatible materials.
<i>Incompatible materials</i>	Oxidizing agents, acid, base.
<i>Hazardous Decomposition Products</i>	Carbon monoxide, carbon dioxide, lithium oxide fumes.

### Section 11 - Toxicological Information

<i>Irritation</i>	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
<i>Sensitization</i>	Not Available.
<i>Reproductive Toxicity</i>	Not Available.
<i>Toxicologically Synergistic Materials</i>	Not Available.

### Section 12 - Ecological Information

<i>General note:</i>	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<i>Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity</i>	Not Available.

### Section 13 - Disposal Considerations

<i>Waste Treatment</i>	Recycle or dispose of in accordance with government, state & local regulations.
<i>Attention for Waste Treatment</i>	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

## Section 14 - Transport Information

<i>Label for conveyance</i>	Non Regulated
<i>UN Number</i>	Non Regulated
<i>Transport hazard class(es)</i>	Non Regulated
<i>Packing group</i>	Non Regulated
<i>Marine pollutant</i>	No
<i>UN Proper shipping name</i>	Non Regulated

**Transport information:**

This goods shall be considered Not Restricted Goods by the International Civil Aviation Organization (ICAO), the Recommendations on the Transport of Dangerous Goods Model Regulations, the International Air Transport Association (IATA) DGR 67<sup>th</sup>, IATA Special Provisions A123, International Maritime Dangerous Goods Code (IMDG CODE) (Amdt 42-24)

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.

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

## Section 15 - Regulatory Information

- a) Dangerous Goods Regulations
- b) Recommendations on the Transport of Dangerous Goods-Model Regulations
- c) Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria
- d) International Air Transport Association (IATA)
- e) International Maritime Dangerous Goods (IMDG)
- f) Technical Instructions for the Safe Transport of Dangerous Goods
- g) Classification and code of dangerous goods (GB 6944-2012)
- h) 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- i) Toxic Substance Control Act (TSCA)
- j) Code of Federal Regulations
- k) In accordance with all Federal, State and local laws

## Section 16 - Other Information

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.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

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