

# Shenzhen Weineng Electronics Co., Ltd

Material Safety Data Sheet for Alkaline Batteries of Weineng's Private Brand VTERY

Ref.No.:WN2021121501

## Section I - Information of Manufacturer

Manufacturer's Name: Shenzhen Weineng Electronics Co., Ltd	
Address: 7th floor of A-building, Senyang High-tech Park, Tianliao community, Guangming District, Shenzhen	
Telephone number/FAX number: TEL:0086-755-27809917	FAX: 0086-755-27809919
Web site: <a href="http://www.weineng-gd.com">http://www.weineng-gd.com</a>	Email: <a href="mailto:weinengdz@163.com">weinengdz@163.com</a>
Battery type: LR03/LR6/LR14/LR20/LR1/6LR61 (WEINENG's Private Brand VTERY)	
MSDS Creation Date: Dec 15, 2021	

## Section II - Hazardous Ingredients / Identity Information

Description	CAS No.	% of Total Weight	
Manganese Dioxide 电解二氧化锰	1313-13-9	40	Wt%
Zinc Metal 锌	7440-66-6	16	Wt%
Potassium hydroxide 氢氧化钾	1310-58-3	8	Wt%
Water 水	7732-18-5	10	Wt%
Iron 铁	7439-89-6	17	Wt%
Paper 纸	RR-01108-5	1	Wt%
Copper 铜	7440-50-8	3	Wt%
Nylon 尼龙	9008-75-7	2	Wt%
Graphite 石墨	7782-42-5	3	Wt%

## Section III - Physical / Chemical Characteristics

Boiling Point: N.A	Specific Gravity(H <sub>2</sub> O=1): N.A
Vapor Pressure(mm Hg): N.A	Vapor Density (AIR=1): N.A
Solubility in Water: N.A	Melting Point : N.A
Appearance and Odor	Cylindrical Shape, odorless

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): N.A	Flammable Limits : N.A.
LEL: N.A	UEL: N.A
Extinguishing Media: . Carbon Dioxide, Dry Chemical or Foam extinguishers.	
Do not dispose of battery in fire - may explode.	
Special Fire Fighting Procedures: N.A.	
Do not short-circuit battery - may cause burns.	

# Shenzhen Weineng Electronics Co., Ltd

## Material Safety Data Sheet for Alkaline Batteries of Weineng's Private Brand VTERY

Ref.No.: WN2021121501

### Section V - Reactivity Data

Stability : Stable
Incompatibility (Materials to Avoid): Hazardous Decomposition or Byproducts
Polymerization: Will Not Occur

### Section VI - Health Hazard Data

Route(s) of Entry: Inhalation: N.A ; Skin: N.A; Ingestion: N.A
<b>Health Hazard (Acute and Chronic) / Toxicological information</b> <ul style="list-style-type: none"><li>◆ In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte. In contact with electrolyte can cause severe irritation and chemical burns.</li></ul>

### Section VII – First Aid Measures

<b>First Aid Procedures:</b> <ul style="list-style-type: none"><li>◆ If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.</li><li>◆ If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.</li></ul>
---

### Section VIII– Accidental Release or Spillage

<b>Steps to Be Taken in Case Material is Released or Spilled</b>
<ul style="list-style-type: none"><li>◆ Batteries that are leakage should be handled with rubber gloves.</li><li>◆ Avoid direct contact with electrolyte.</li></ul>

### Section IX – Handling and Storage

<b>Safe handling and storage advice</b> <ul style="list-style-type: none"><li>◆ Batteries should be handled and stored carefully to avoid short circuits.</li><li>◆ Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries</li><li>◆ Never disassemble a battery.</li><li>◆ Do not touch internal material with bare hands.</li><li>◆ Keep batteries between -30°C and 35°C.</li></ul>
--

### Section X – Ecological Information

<ul style="list-style-type: none"><li>◆ <b>Ecological Information</b> : N.A</li></ul>
---

# Shenzhen Weineng Electronics Co., Ltd

## Material Safety Data Sheet for Alkaline Batteries of Weineng's Private Brand VTERY

Ref.No.:WN2021121501

### Section XI – Exposure Controls / Person Protection

- ◆ Occupational Exposure Limits: LTEP N.A.
- ◆ Respiratory Protection (Specify Type): N.A.
- ◆ Ventilation Local Exhausts: N.A. ◆ Protective Gloves: N.A.
- ◆ Eye Protection: N.A.
- ◆ Other Protective Clothing or Equipment: N.A.

### Section XII – Disposal Method

- ◆ Dispose of batteries according to government regulations.

### Section XIII –Regulation Information

#### Regulation Information

- ◆ Special requirement be according to the local regulations

### Section XIV – Transportation Information

Primary alkaline cylindrical batteries of WEINENG's Private Brand VTERY are considered to be “dry cell” batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civic Aviation Administration(ICA), International Air Transport Association (IATA), the International Maritime Organization (IMO), the “Accord Europeén Relatif au Transport International des Marchandises Dangereuses par Route” (ADR) ) and the “Règlement concernant le transport international ferroviaire de marchandises Dangereuses” (RID).

VTERY brand batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG (40-20 edition)	Not regulated
UN (20 <sup>th</sup> revised edition)	Not regulated
US DOT	49 CFR 172.102 Special Provision 130
IATA (63edition)	A123
ICAO	Not regulated

**IATA DGR (63Edition) :** Special Provision A123: “Examples of such batteries are: alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries. Any electrical battery ... having the potential of a dangerous evolution of heat must be prepared for transport as to prevent (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals...) is forbidden from transport; 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.”

# Shenzhen Weineng Electronics Co., Ltd

## Material Safety Data Sheet for Alkaline Batteries of Weineng's Private Brand VTERY

Ref.No.:WN2021121501

**EU:** As primary alkaline cylindrical cells/batteries are not explicitly mentioned in RID/ADR, there are no special Dangerous Goods shipment requirements for these products.

**USA:** 49 CFR § 172.102 Special Provision 130: "For other than a dry battery specifically covered by another entry in the § 172.101 Table, "Batteries, dry" are not subject to the requirements of this subchapter when they are securely packaged and offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals) and protects against short circuits."

### **Code of practice for packaging and shipment of primary batteries given in IEC**

**60086-1:** The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture. Shock and vibration shall be kept to a minimum. For instance, boxes should not be thrown off trucks, slammed into position or piled so high as to overload battery containers below. Protection from inclement weather should be provided.

### **Section XV-Other Information**

◆The data in this Material Safety Data Sheet relates only to the specific material designated herein.

### **Section XVI – Measures for fire extinction**

◆In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

◆Fire fighters should wear self-contained breathing apparatus.