

Material Safety Data Sheet

BUTTON CELL BATTERY
SHENZHEN WEINENG ELECTRONICS CO., LTD

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

AG/LR Zinc Manganese Dioxide Battery.

Supplier Information

Company Name: SHENZHEN WEINENG ELECTRONICS CO., LTD

6/F, Block C, A Zone, CanBo Technology Park, Loucun Guangming New District, Shenzhen

Postcode: 518101

Tel: 0755-27809917

Fax: 0755-27809919

Emergency Telephone: 15914133536

Date: JAN.2019

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Product used in small electrical equipment's.

Ingredients Name	Content %	CAS NO.
Manganese Dioxide	35-40	1313-13-9
Zinc	10-25	7440-66-6
Water	20-30	N/A
Others	1-5	N/A

Note: See Section 8 of MSDS for exposure limit data for these ingredients.

3. HAZARDs IDENTIFICATION

Emergency Overview

Solid with no odor

No unusual conditions are expected from this product

NFPA Ratings

Health: 0 Flammability: 1 Reactivity: 0

Emergency Overview:

These chemicals and metals are contained in a sealed can. For consumer use, adequate hazard warnings are included on both the package and on the battery.

Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

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Inhalation

Respiratory (and eyes) irritation may occur if fumes are released due to heat or an abundance of leaking batteries.

Ingestion

Not anticipated due to size of batteries; choking may occur with the small AAA and AAAA batteries.
Irritation, including caustic burns/injury, may occur following exposure to a leaking battery.

Skin

a. Contact

Irritation, including caustic burns/injury, may occur following exposure to a leaking battery.

b. Absorption

Not anticipated

Eye Contact

Irritation, including caustic burns/injury, may occur following exposure to a leaking battery.

Other

Not applicable

4. FIRST AND NEASURES

Skin Protection: Not anticipated. If battery is leaking, irrigate exposed skin with copious amounts of clear, tepid water for at least 15 minutes. If irritation, injury or pain persists, consult a physician.

Eye contact: Not anticipated. If battery is leaking and material contacts eyes, flush with copious amounts of clear, tepid water for 30 minutes. Contact physician at once.

Inhalation: Not anticipated. If battery is leaking, contents may be irritating to respiratory passages. Remove to fresh air. Contact physician if irritation persists.

Ingestion: Not anticipated. Rinse the mouth and surrounding area with clear, tepid water for at least 15 minutes. Cons a physician immediately for treatment and to rule out involvement of the esophagus and other tissues.

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Other: Keep batteries away from small children.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: None

Flammable Limits

LFL: Not Applicable

UFL: Not Applicable

Extinguish Media: Use appropriate fire extinguisher for surrounding environment.

Fire & Explosion Hazards: None known.

Fire Fighting Equipment: Use self-contained breathing apparatus (SCBA) in a fire condition.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning up: Pick up to prevent slipping hazard, recycle or incinerate at an approved waste disposal site.

7. HANDLING AND STORAGE

General: No special storage or handling procedures are required for this material.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:

RESPIRATORY PROTECTION: For most situations, no respiratory protection should be needed; however, in dusty atmospheres, use an approved dust respirator.

SKIN PROTECTION:

EYE PROTECTION:

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EXPOSURE GUIDELINES

Ingredients	The 8-Hour Exposure Limit (TLV-TWA)	
	OSHA	ACGIH TLV
Manganese Dioxide	5mg/3	0.2 mg/3
Zinc	N/A	N/A
Water	N/A	N/A

OTHERS: Keep batteries away from small children.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mm Hg @ 20°C) : Not Applicable

PH: Not Applicable

Vapor Density (Air = 1): Not Applicable

Specific Gravity (Water = 1): Not Available

Boiling Point: Not Applicable

Flash Point: Not Applicable

Solubility in Water: Insoluble

Viscosity: Not Applicable

Appearance: Solid

Color: White

Odor: None

Freezing Point: Not Applicable

Evaporation Rate (n-Butyl Acetate = 1): Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Do not heat, crush, disassemble, short circuit or recharge.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas; caustic vapors of potassium hydroxide and other toxic by-products.

INCOMPATIBLE MATERIALS

Contents incompatible with strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

Toxicity Data

No toxicology data available.

Carcinogenicity:

This product is not identified as a carcinogen or probable carcinogen by IARC, NTP or OSHA.

Reproductive Effects: No information available for the product.

Teratogenicity: No information available for the product.

Neurotoxicity: No information available for the product.

Mutagenicity: No information available for the product.

12. ECOLOGICAL INFORMATION

Environmental Effects

These batteries pass the U. S. EPA's Toxicity Characteristic Leaching Procedure and therefore, may be disposed of with normal waste.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

If this product becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

Not a hazard material or hazard goods for transportation:

Separate Zinc-manganese button cell when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

ICAO and IATA Edition 60th and is Special Provision A123 Transport Fashion: By air, by sea, by railway, by road.

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15. REGULATORY INFORMATION

EUROPEAN REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: N (Dangerous for the Environment)

Risk Phrases:

R5 – Heating may cause an explosion

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S53 Avoid exposure – obtain special instructions before use. S28 – After contact with skin, wash immediately with plenty of soap and water.

S61 – Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Validation Date:

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. WEINENG makes no responsible for damages of a nature whatsoever resulting from the use or reliance upon the information and recommendation.