

RICO INDUSTRIAL CO. ,

Material Safety Data Sheet(MSDS)

Section1 – Product Information

Our brands:**SUNCOM**Manganese Dioxide Alkaline Button-cells(AG0/AG1/AG2/AG3/AG4/AG5/AG6/AG7/AG8/AG9/AG10/AG11/AG12/AG13)

Section 2 – Composition / Information on Ingredients

The ingredients are contained in a hermetically-sealed case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, hazardous materials are partially contained inside the battery. The battery should not be opened or exposed to heat because exposure to the following ingredients contained within could be harmful under some circumstances. The following information is provided for the user's information only. The chemical names are as follows:

Zinc(zn) 4-10 wt%	cas no.:7440-66-6
Manganese Dioxide (MnO ₂) 15-30%	cas no.:1313-13-9
Potassium hydroxide (KOH) 0-12wt%	cas no.:1310-58-3
Sodium Hydroxide (NaOH) 0-12wt%	cas no.:1310-73-2
Graphite(C) 1-3 wt%	cas no.:7782-42-5

Section3 – Physical/Chemical Characteristics

Boiling Point (°C): N/A

Specific Gravity: (H₂O=1): N/A

Vapor Pressure (mmHg): (N/A)

Vapor Density (Air=1): (N/A)

Melting Point (°C): (N/A)

Evaporation Rate (Butyl Acet.=1): (N/A)

Solubility in Water: (N/A)

Appearance and Odor:.(N/A)

Section 4 – Fire and Explosion Hazard Data

Flammable Limits: Not available

But when the short circuit occurred inside the battery due to the leakage or the breach of the separator , it may cause a tiny explosion to break and spread the anode and cathode into parts and hit the person nearby. It may hurt the eye by accident. Safety precaution must be taken against this accident.

In case of fire, it is permissible to use any kind of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture. Unusual Fire and Explosion Hazards are not available.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical, Carbon dioxide and appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with

Skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedures of Personal Precautions:

Exercise appropriate precautions to minimize direct contact with skin and eyes.

Methods for cleaning up:

Sweep up with spade, place into a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

Handling

Wear appropriate protective clothing and safety gloves. Avoid contact and inhalation of the internal materials. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents, corrosives and foods. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent which could lead to short circuits. No smoking at working site.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents, corrosives and foods.

SECTION 8 EXPOSURE CONTROL/PPE

Engineering Controls: Use ventilation equipment if available.

Personal Protective Equipment:

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves.

Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Colorful cylinder metal shell (containing dielectric)		
Odor:	Odorless		
pH:	7~8	Melting Point:	>300℃

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Materials to Avoid: Strong oxidizing agents,corrosives.

Conditions to Avoid: Avoid exposure to heat and open flame. Do not puncture, crush or incinerate. Prevent short circuits. Prevent movement which could lead to short circuits. Do not attempt to recharge this battery.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: When exposed to extreme heat/fire batteries may rupture leaking corrosive material and/or emit toxic fumes. Burning batteries may emit toxic fumes of zinc oxide and manganese oxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity Data: Not available.

Irritation Data:The internal battery materials may cause irritation to eyes and skin.

SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Appropriate Method fo Disposal of substance:

Contact a licensed professional waste disposal service to dispose of this material. Do not incinerate.

SECTION 14 TRANSPORT INFORMATION

DOT

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

IMO

Non-Hazardous for Sea Transport: Non-hazardous for sea transport.

ADR/RD Class: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

UN Number: None

SECTION 15 REGULATORY INFORMATION

EU Classification and Labelling Information:

This material is not classified in the Annex I of Directive 67/548/EEC.

SECTION 16 OTHER INFORMATION

Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.

SECTION 17 MANUFACTURER INFORMATION

Company Name: RICO INDUSTRIAL CO.,

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ON AND BEHALF OF
RICO INDUSTRIAL CO.,
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