



**Print Output:** Alkaline Technical Bulletin

Chapter: 8

Pages: 2 (not including this page)



**Table of contents**

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**1 Introduction**

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**2 General Characteristics**

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**3 Composition and Chemistry**

- 3.1 Active Components
  - 3.2 Anode
  - 3.3 Cathode
  - 3.4 Electrolyte
- 

**4 Construction**

- 4.1 Cylindrical Cell Construction
  - 4.2 Multicell Construction
  - 4.3 Button Cell Construction
- 

**5 Performance Characteristics**

- 5.1 Voltage
  - 5.2 Capacity
  - 5.3 Type Of Discharge
  - 5.4 Effect Of Temperature
  - 5.5 Internal Resistance
  - 5.6 Energy Density
  - 5.7 Shelf Life
  - 5.8 Comparison Of Zinc-carbon And Zinc-alkaline
  - 5.9 Cost Effectiveness
- 

**6 Applications**

---

**7 Battery Care**

- 7.1 Storage Conditions
  - 7.2 Proper Usage And Handling
  - 7.3 Charging
- 

**8 Disposal**

- 8.1 Disposal Procedures For Alkaline-Manganese Dioxide Cells And Batteries
  - 8.2 Collection And Handling
  - 8.3 Storage
  - 8.4 Shipment
- 





### **8.1 Disposal Procedures for Alkaline-Manganese Dioxide Cells and Batteries**

The disposal of waste products in the United States is regulated by the U.S. Environmental Protection Agency. The EPA Regulations are listed in the “Code of Federal Regulations”, CFR40, entitled “Protection of Environment.” Individual states and local communities also may establish regulations covering the disposal of waste products. These may be more stringent than the federal regulations and cover the disposal of household waste, which is not included in federal regulations. Thus, state and local agencies should be contacted for their disposal guidelines.

The U.S. EPA has not provided any specific regulations or guidelines for the disposal of alkaline-manganese dioxide cells and batteries. As a result, a number of state and local governments recently have passed or are considering legislation which may require separation, collection or other special procedures for the disposal of batteries, particularly for those that contain heavy metals. Internationally, procedures vary from country to country.

In the absence of specific regulations or guidelines, the following is recommended for the disposal of DURACELL® alkaline-manganese dioxide cells and batteries.

**A. Batteries in Household Use:**

Individual alkaline-manganese dioxide cells and batteries can be disposed of with other household waste.

**B. Commercial Quantities:**

The recommended procedure for disposal of alkaline-manganese dioxide cells and batteries is in a hazardous waste landfill. Since these cells are not classified as a “hazardous waste”, they can be shipped to the hazardous waste facility as a “non-hazardous” waste. Local regulations, which may specify other methods for the disposal of these batteries, supercede these recommendations.

Waste management companies can provide assistance in the disposal of these batteries.

### **8.2 Collection and Handling**

Commercial or bulk quantities of alkaline-manganese dioxide cells and batteries should be collected and transported in a manner to prevent short circuit, compacting or mutilation, or any other abusive physical or electrical handling that would destroy their physical

integrity. They should not be exposed to fire or high temperatures. Exposure of these cells to high temperatures or fire can cause the cells to leak, vent and/or explode.

### **8.3 Storage**

Alkaline-manganese dioxide batteries should be stored in a well-ventilated, covered area, preferably

using relatively small, heat-resistant plastic containers. Containers should not be hermetically sealed.

### **8.4 Shipment**

DOT and EPA do not provide guidelines for the shipment of alkaline-manganese dioxide cells and batteries to a disposal site. Your state and/or local regulatory agency should be contacted as they may have established such guidelines or regulations.

**Note: Guidelines for the disposal of alkaline-manganese dioxide cells and batteries are continually under review. Duracell can be contacted if additional guidance is required.**