

# IDENTITY: Alkaline Battery

## Section I – Manufacturer Information

Eveready Battery Company, Inc.  
25225 Detroit Road  
Westlake, OH 44145

Telephone Number for Information:  
(800) 383-7323  
Date Prepared: October 17, 2001

**EMERGENCY NUMBER: (800) 424-9300 (Chemtrec)**

Trade Names: Energizer; Energizer e<sup>2</sup>, Industrial ZMA; Hercules

## Section II – Hazard Ingredients/Identity Information

IMPORTANT NOTE: The battery should not be opened or burned since the following ingredients contained within, or their discharge or combustion products, could be harmful under some circumstances if exposed.

<u>Material/Ingredient</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>	<u>%/wt</u>
Graphite (CAS# 7782-42-5)	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m <sup>3</sup> Ceiling (as Mn)	0.2 mg/m <sup>3</sup> TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m <sup>3</sup> Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m <sup>3</sup> TWA PNOR* (total dust) 5 mg/m <sup>3</sup> TWA PNOR* (respirable fraction)	10mg/m <sup>3</sup> TWA PNOC** (inhalable particulate) 3 mg/m <sup>3</sup> TWA PNOC** (respirable paeticulate)	12-25

\* PNOR: Particulates not otherwise regulated.

\*\* PNOC: Particulates not otherwise classified.

## Section III – Physical/Chemical Characteristics

Boiling Point:  
Vapor Pressure:  
Vapor Density:

Specific Gravity:  
Melting Point:  
Evaporation Rate:

Solubility in Water:  
Appearance and Odor:

#### Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):  
LEL:

Flammable Limits:  
UEL:

Extinguishing Media: Use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

#### Section V – Reactivity Data

Stable or Unstable?

Conditions to Avoid:

Incompatibility (Materials to Avoid):

Hazardous Decomposition or Byproducts:

Hazardous Polymerization May Occur or Will Not Occur?

Conditions to Avoid:

#### Section VI – Health Hazard Data

Routes of Entry

Inhalation: Yes

Skin: Yes

Ingestion: Yes

Eye: Yes

Carcinogenicity:

NTP:

IARC Monographs:

OSHA Regulated:

Health Hazards:

Signs and Symptoms of Exposure:

Inhalation: Contents of an opened battery can cause respiratory irritation.

Skin: Contents of an opened battery can cause skin irritation and/or chemical burns.

Ingestion: Swallowing a battery can be harmful. Contents of an opened battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal.

Eye: Contents of an opened battery can cause severe irritation and chemical burns.

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedure:

Inhalation – Provide fresh air and seek medical attention.

Ingestion – If battery or open battery is ingested, do not induce vomiting nor give food or drink. Seek medical attention immediately. Call national battery ingestion hotline for advice and follow up (202-625-3333) collect, day or night.

Skin – Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

Eyes – Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

## Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local regulations. Appropriate disposal technologies include incineration and landfilling.

Precautions to be Taken in Handling and Storing: Store in a cool, well-ventilated area. Elevated temperatures can result in shortened battery life.

Other Precautions:

Charging: This battery is manufactured in a charged status. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

Labeling: If the Eveready label or package warnings are not visible, it is important to provide a package and/or device label stating:

**WARNING:** do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. **Replace all batteries at the same time.**

## Section VIII – Control Measures

Respiratory Protection: Not necessary under normal conditions.

Ventilation – Not necessary under normal conditions.

Local Exhaust:

Mechanical:

Special:

Other:

Protective Gloves: Not necessary under normal conditions. Use neoprene or natural rubber gloves if handling an open or leaking battery.

Eye Protection: Not necessary under normal conditions. Wear safety goggles with side shields if handling an open or leaking battery.

Other Protective Clothing or Equipment:

Work/Hygiene Practices:

### Section IX – Regulatory Information

The transportation of dry cell batteries manufactured or sold by Eveready Battery Company is not regulated by the U.S. Department of Transportation or the major international regulatory bodies.

SARA/TITLE III – As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.

### Section X – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC makes no guarantee or warranty, expressed or implied, concerning the safe use, storage, handling, precautions, and/or disposal of the products covered or the accuracy of the information contained in this fact sheet. It is the responsibility of the user to comply with local, state, and federal laws and regulations concerning the safe use, storage, handling, precautions, and/or disposal of products covered in this fact sheet.