# ARTICLE INFORMATION SHEET

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of Energizer and Rayovac branded consumer batteries follow ANSI and IEC battery standards.

## SECTION 1 - DOCUMENT INFORMATION

**Product Name:** Eveready / Energizer Battery / Rayovac

**Chemical System:** Alkaline Manganese Dioxide-Zinc

**Designed for Recharge:** No

**Prepared by:** Energizer

**Document Number:** 1019-Alk

**Date Prepared:** October 2019

**Valid Until:** October 2022

## SECTION 2 – COMPANY INFORMATION

Energizer Brands, LLC
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St. Louis, MO 63141

Email for Information:
energizer@custhelp.com
www.energizer.com

## SECTION 3 – ARTICLE INFORMATION

| | |
|---|---|
| Description | Alkaline Manganese Dioxide-Zinc Battery |
| Use | Portable power source |
| Brand | ENERGIZER, EVEREADY, RAYOVAC |
| IEC Designation | Included but not limited to: LR8D425, LR03, LR6, LR14, LR20, 6LR61, LR1, 4LR25Y, 6LF22 |
| Sizes | Included but not limited to: AAAA, AAA, AA, C, D, 9V, N, Lantern |
| Image | |

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## SECTION 4 – ARTICLE CONSTRUCTION

**IMPORTANT NOTE:** The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

| MATERIAL OR INGREDIENT | PEL (OSHA) | TLV (ACGIH) | %/wt. |
|---|---|---|---|
| Graphite<br>(CAS# 7782-42-5) | 15 mg/m$^3$ TWA (total dust)<br>5 mg/m$^3$ TWA (respirable fraction) | 2 mg/m$^3$ TWA (respirable fraction) | 2-6 |
| Manganese Dioxide<br>(CAS# 1313-13-9) | 5 mg/m$^3$ Ceiling (as Mn) | 0.2 mg/m$^3$ TWA (as Mn) | 30-45 |
| Potassium Hydroxide<br>(CAS# 1310-58-3) | None established | 2 mg/m$^3$ Ceiling | 4-8 |
| Zinc<br>(CAS# 7440-66-6) | 15 mg/m$^3$ TWA PNOR*<br>(total dust)<br>5 mg/m$^3$ TWA PNOR*<br>(respirable fraction) | 10 mg/m$^3$ TWA PNOC**<br>(inhalable particulate)<br>3 mg/m$^3$ TWA PNOC**<br>(respirable particulate) | 12-25 |
| Non-Hazardous Components<br>Steel<br>(iron CAS# 7439-89-6<br>Water, Paper, Plastic and Other | <br>None established<br><br>None established | <br>None established<br><br>None established | <br>18-22<br><br>Balance |

* PNOR: Particulates not otherwise regulated
**PNOC: Particulates not otherwise classified

**All Energizer Alkaline Manganese Dioxide-Zinc have zero added mercury.**

**Applicable Battery Industry Standards**

| | | | |
|---|---|---|---|
| **North America Standards** | ANSI C18.1M Part 1 | ANSI C18.1M Part 2 | ANSI C18.4 |
| **International Standards** | IEC 60086-1 | IEC 60086-2 | IEC 60086-5 |

## SECTION 5 – HEALTH AND SAFETY

**Ingestion:** Do not induce vomiting or 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.

The following instructions apply to exposure of internal components.

**Inhalation:** Provide fresh air and seek medical attention.
**Skin Contact:** Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.
**Eye Contact:** 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 6 – FIRE HAZARD & FIREFIGHTING

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.

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## SECTION 7 - HANDLING AND STORAGE

**Storage:** Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

**Mechanical Containment:** Designers of any water or air-tight device should be aware of the normal evolution of hydrogen gas from alkaline batteries. This gas must be either absorbed or allowed to escape to avoid a potential safety issue.

**Handling:** Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy through heating, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

Soldering directly to a battery is not recommended. If welding to the battery is required, consult your Energizer sales representative for proper precautions to prevent seal damage or short circuit.

**Charging:** This battery is manufactured in a charged state. 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:** The label acts as an electrical insulation for the battery can. Damage to the label can increase the potential for a short circuit.

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

## SECTION 8 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

## SECTION 9 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These 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 | Not regulated |
| UN | Not regulated |
| US DOT | 49 CFR 172.102 Provision 130 |
| IATA | A123 |
| ICAO | Not regulated |

All Energizer alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

For emergency information call ChemTel 1-800-526-4727 (North America) or 1-314-985-1511 (International).

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## SECTION 10 – REGULATORY INFORMATION

### 10A Battery

1. **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.
2. **USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996:** No mercury added
3. **EU Battery Directive 2006/66/EC Amended 2013/56/EU:** Energizer batteries are compliant with all aspects of the Directive

### 10B General

1. **CPSIA 2008:** Exempt
2. **US CPSC FHSA (16 CFR 1500):** Not applicable since batteries are defined as articles
3. **USA EPA TSCA (40 CFR 707.20):** Not applicable since batteries are defined as articles
4. **USA EPA RCRA (40 CFR 261):** Classified as non-hazardous waste per ignitable, corrosive, reactive or toxicity testing
5. **California Prop 65:** No warning required
6. **DTSC Perchlorate labeling:** No warning required
7. **EU REACH SVHC:** No REACH listed substances of very high concern are present above 0.01% w/w

### 10C Article Definitions

1. **OSHA Hazard Communication Standard, Section 1910.1200(c)**

## SECTION 11 – GHS OTHER INFORMATION

None

## Acronym Glossary

ANSI: American National Standards Institute
CPSC: Consumer Product Safety Commission
CPSIA: Consumer Product Safety Improvement Act
DTSC: Department of Toxic Substances Control
EPA: Environmental Protection Agency
FHSA: Federal Hazardous Substances Act
GHS: Globally Harmonized System for Hazard Communication
IEC: International Electrotechnical Commission
OSHA: Occupational Safety and Health Administration
RCRA: Resource Conservation and Recovery Act
SDS: Safety Data Sheet
SVHC: Substances of Very high Concern
TSCA: Toxic Substances Control Act

*Energizer has prepared copyrighted Article Information Sheets to provide information on the different Eveready/Energizer/Rayovac battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, ENERGIZER BRANDS, LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.*

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