



# PSDS – Product Safety Data Sheet

Alkaline - Major and Specialty Cells and Batteries

|                                        |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                           | Duracell Alkaline (Major and Specialty Cells and Batteries)                                                                                                                                                                                                                                                                      |
| Chemical System                        | Alkaline Manganese Dioxide                                                                                                                                                                                                                                                                                                       |
| Description                            | Duracell Branded Consumer Alkaline Battery                                                                                                                                                                                                                                                                                       |
| Product Category                       | Electro-Technical Device                                                                                                                                                                                                                                                                                                         |
| Use                                    | Portable power source for electronic devices.                                                                                                                                                                                                                                                                                    |
| Global sub-brands (Retail)             | Coppertop, Plus, Quantum, Simply, Ultra, Basic, Optimum, Original, Deluxe, Chhota Power, Classic, Professional                                                                                                                                                                                                                   |
| Global sub-brands (B2B)                | Procell, OEM/OEA                                                                                                                                                                                                                                                                                                                 |
| Physical Description (IEC Designation) | <b>Major Cells:</b> AA (LR6), AAA (LR03), C (LR14), D (LR20) & 9V (6LR61,6LP3146)<br><b>Specialty Cells:</b> AAAA (LR8D425), MN11, MN21 (8LR932, A23, 23A), MN27, MN175, PX76/A76/76A (LR44), PX625, (LR9), 186 (LR43), 191/LR1130 (LR54), N (LR1), J (4LR61), 4.5V, 625A<br><b>Lanterns:</b> MN903, MN908, MN915, MN918; MN1203 |
| Principles of Operation                | A battery powers a device by converting stored chemical energy into electrical energy.                                                                                                                                                                                                                                           |
| Document ID                            | PSDS - ALK                                                                                                                                                                                                                                                                                                                       |
| Date Prepared                          | 12/1/2023                                                                                                                                                                                                                                                                                                                        |
| Preparer                               | Product Safety & Regulatory                                                                                                                                                                                                                                                                                                      |

*This Product Safety Data Sheet (PSDS) provides relevant battery information to retailers, consumers, OEMs, and other users requesting a GHS-compliant PSDS. Articles, such as batteries, are exempt from GHS PSDS 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 branded consumer batteries follow ANSI and IEC battery standards. This document is based on principles set forth in the following hazard communication approaches ANSI Z-400.1, GHS, JAMP AIS, and IEC 62474.*

## Section 1: MANUFACTURER'S INFORMATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer's Name and Address | <p><b>Duracell, a Berkshire Hathaway Company</b><br/>U.S. Operations, Inc., 14 Research Drive Bethel, CT USA 06801</p> <p><b>Duracell Batteries BV,</b><br/>Nijverheidslaan 7, 3200 Aarschot, Belgium.</p> <p><b>Duracell International Operations Sàrl,</b><br/>Rue du Pré-de-la-Bichette 1, CH-1202, Geneva, Switzerland</p> <p><b>Duracell (China) Ltd.</b><br/>Hongtu High &amp; New Technology Development Zone,<br/>Nan Cheng District, Dongguan, 523080 Guangdong, China</p> <p><b>Duracell Australia Pty. Ltd.</b><br/>Suite 2.01, Level 2 423 Pennant Hills Rd, Pennant Hills NSW 2120 Australia</p> <p><b>Duracell Mexico</b><br/>Av. Santa Fe 440 Of. 100<br/>Col. Santa Fe Cruz Manca<br/>Del. Cuajimalpa de Morelos<br/>CDMX, 05348<br/>Mexico</p> |
| Telephone                       | (203) 796-4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| Global Website | <a href="http://www.duracell.com">www.duracell.com</a> |
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|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Consumer Relations | <b>North America</b><br>1-800-551-2355 (9:00 AM - 5:00 PM EST)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                    | <b>Latin America</b><br>(Brazil) 0 800 727 1165, (Chile) 188 800 224 488, (México) 0 1800 283 2901<br>(Rest of Latin America) <a href="http://duracell.mx/help">duracell.mx.help</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                    | <b>Europe</b><br>(UK) 0800 716434, (FR) 0800 346 790 (Service & appel gratuits), (IRL) 1 800 509 176, (DE) 800 101 2112, (AT) 0800 1025 1956, (CH) 0800 000 885, (BE) 0800 509 95, (NL) 0800 265 8616, (IT) 800 125 662, (ES) 900 800 522, (PT) 800 781 012, (GR) 210 66 75 000, (CY) 22-210900, (DK-FI-NO-SE) +46 8 799 1926, (NO) 63791957, (ZA) 0800980782, (RO) 021 3361915, (IS) +354 5222700, (MD) +373 0800700 88, (BG) 02 40 24 500, (BIH) 033756000, (MNE) 020261920, (PL) 00800 77628282, (LT) +370 656 40111, (LV) +371 670 48400, (EE) +3726505555, (CZ) +420 233 325 614, (SK) +42153419601, (HU) 0620 770 7099, (HR) 0800 0009, (SI) 01/588 6800, (AZ) 99412 5990511, (UA) +380444909771 (ПpAT "CAB 92") & +380442476704 (TOB «IHBECTKOM»), (KZ) +7 727 250 05 50, (KG) 0312 41 77 04 (Apple City International), (TR) 0 850 502 61 40, (BG) 02/40 24 500, (BIH) 38733756000, (UZ) 998 900123313 |
|                    | <b>Asia</b><br>(CN) 4008850883, (HK) 800-969-950, (TW) 0800-251-122, (AU) 1-800-239901, (NZ) 0800-44-6869, (KP) 080-393-3000, (SG) 800-120-5608, (TH) 001 800 852 6595, (VN) 120 11543, (MY) 1-800-81-5379, (ID) 001-803-0167294, (PH) 1-800-1110-1392, (IN) 1800-120-7897                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### Section 2: HAZARD IDENTIFICATION

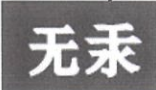
Product is a sealed article, not a mixture or substance. Exposure to contents inside the sealed battery will not occur unless the battery leaks, is exposed to high temperatures, or is mechanically abused.

### Section 3: COMPOSITION

|                                       |                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------|
| Applicable Battery Industry Standards | ANSI C18.1M Part 1, ANSI C18.1M Part 2, ANSI C18.4, IEC 60086-1, IEC 60086-2, IEC 60086-4 |
| Description                           | Branded Consumer Battery                                                                  |
| Battery Electro-Technical System      | Alkaline Manganese Dioxide                                                                |

| COMPONENTS                   | INGREDIENTS                                             | CAS NUMBER | Amount         |
|------------------------------|---------------------------------------------------------|------------|----------------|
| Electrode – Negative         | Zinc                                                    | 7440-66-6  | 10-25%         |
| Electrode – Positive         | Manganese Dioxide<br>Nickel Compounds,<br>Proprietary   | 1313-13-9  | 35-40%<br>0-6% |
| Electrolyte                  | Alkali Metal Hydroxide<br>(aqueous potassium hydroxide) | 1310-58-3  | 5-10%          |
| Can                          | Nickel-plated Steel                                     | 12597-69-2 | 8-15%          |
| Other Non-Reactive Materials |                                                         |            | 10-15%         |

### COMPLIANCE

|                                                                                                    |                                                                                                          |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Declarable substances (IEC 62474 Criteria 1)                                                       | None                                                                                                     |
| Mercury Free Battery (ANSI C18.4M <5ppm)                                                           | No Mercury                                                                                               |
| P.R.C. Provision on Mercury Content Limitation for Batteries (GB 8897.5-2013, MOD, Section 9.1(e)) | <br>No Mercury added. |



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| P.R.C. Mercury Free Battery<br>(GB 24427-2021) < 1ppm      | Yes, No Mercury Added                                                                                                                  | 无汞 |
| Small Cell or Battery<br>(ANSI C18.1M Part 2; IEC 60086-5) | Sizes: AAA and Specialty Cells fit inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide. |    |

### Section 4: FIRST AID MEASURES

(In case of electrolyte leakage from the battery.)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact                   | Flush thoroughly with copious amounts of running water for at least 15 minutes. Hold eyelids open to assure thorough flushing. Seek immediate medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Skin Contact                  | Immediately remove contaminated clothing and shoes while flushing with water. Continue to flush exposed skin with water for at least 15 minutes. Seek medical attention if irritation develops and persists. Launder contaminated clothing before reuse and discard shoes and other items that cannot be decontaminated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ingestion/Swallowed           | <b>Required for Small Cell or Battery (Sizes: AAA and Specialty Cells): Keep away from children.</b> If swallowed, consult a physician immediately. Call National Battery hotline (800-408-8666).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Note to Physician             | A damaged battery will release concentrated and caustic potassium hydroxide. For information on battery identification and treatment, call the 24- hour <b>National Battery Ingestion Hotline (800-408-8666)</b> . Additional treatment information is available from the <b>National Capital Poison Control Center Button Battery Ingestion Triage and Treatment Guideline: <a href="https://www.poison.org/battery/guideline">https://www.poison.org/battery/guideline</a></b> . An x-ray must be obtained right away to be sure that the battery has gone through the esophagus into the stomach. (if the battery remains in the esophagus, it must be removed immediately.)<br>Do Not induce vomiting. Don't eat or drink until the x-ray shows the battery is beyond the esophagus. Watch for fever, abdominal pain, vomiting or blood in the stool. Report these symptoms immediately. Check the stool until the battery has passed. |
| Poison Center/North America   | USA/Canada Calls Only: 1-800-498-8666 (Toll Free)<br>[24-Hour National Battery Ingestion Hotline]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poison Center World Directory | <a href="http://globalcrisis.info/poisonemergency.html#AAA">http://globalcrisis.info/poisonemergency.html#AAA</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Inhalation                    | Contents of leaking battery may be irritating to respiratory passages. Move to fresh air. Seek medical attention if irritation persists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Section 5: FIRE FIGHTING MEASURES

|                                          |                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance or Mixture<br>Specific Hazards | Batteries may rupture or leak if involved in a fire. Use any extinguishing media appropriate for the surrounding area.                                                                                                                                                                                                                                            |
| Fire Fighting Measures                   | Remove container from fire area if this can be done without risk. Avoid inhaling the material or combustion products. Keep downwind and away from low areas.                                                                                                                                                                                                      |
| Advice for Fire-Fighters                 | Large quantities of batteries involved in a fire will rupture and release caustic potassium hydroxide. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from a distance or protected area. Cool fire-exposed containers to prevent rupture. Do not breathe smoke, gases or vapors generated |

### Section 6: ACCIDENTAL RELEASE INFORMATION

(In case of electrolyte leakage from the battery.)

|                                                            |                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spills of Large Quantities of Loose Batteries (unpackaged) | Notify spill personnel of large spills. Irritating vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. |
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|                                                                            | Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.                                                                                                                                                                                                          |
| <b>Personal Precautions, Protective Equipment and Emergency Procedures</b> | Clean-up personnel should wear appropriate protective clothing to prevent eye and skin contact and inhalation of dust. Ventilate area of spill. Avoid creating airborne dust. Eliminate all sources of ignition. Keep spilled material away from combustible materials.                                                                                                                 |
| <b>Environmental Precautions</b>                                           | Avoid release to the environment without proper government permits. Prevent entry into storm sewers and waterways. Report spills as required by local and national regulations.                                                                                                                                                                                                         |
| <b>Methods and Material for Containment and Cleaning Up</b>                | Do not use combustible absorbents or dust control products. Carefully collect material with a scoop. Do not generate airborne dust. Place in appropriate container for disposal. Rinse the spill area with water after clean-up is complete. Collect rinse water for appropriate treatment and disposal. Remove any spilled liquid with absorbent material and contain it for disposal. |

### Section 7: HANDLING AND STORAGE

|                                                                     |                                                                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Precautions for Safe Handling</b>                                | Do not short circuit, charge, dispose into fire or install incorrectly.                                   |
|                                                                     | Do not solder directly onto batteries.                                                                    |
|                                                                     | Do not mix different type or brand of batteries.                                                          |
| <b>Conditions for Safe Storage, Including any Incompatibilities</b> | Store in cool, dry place in original packaging. Do not store with acids. Store away from reducing agents. |

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This product is considered an article that does not release or result in exposure to a hazardous chemical under normal conditions of use.

No engineering controls or personal protective equipment (PPE) is required.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                             |                |
|-----------------------------|----------------|
| <b>Physical Description</b> | Article        |
| <b>Chemical Properties</b>  | Not Applicable |

### Section 10: STABILITY AND REACTIVITY

|                           |                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>         | Stable and Non-Reactive under 60°C.                                                                                                                                                          |
| <b>Chemical Stability</b> | Cells/batteries may explode or leak and cause burn injuries when recharged, burnt/incinerated, mixed with different types of batteries, inserted backwards into appliances, or disassembled. |

### Section 11: TOXICOLOGICAL INFORMATION

The chemicals in this product are contained in a sealed can and exposure does not occur during normal handling and use.

Mercury, Lead and Cadmium are not used in the cell. (Note: If traces are found, they may be from impurity of the raw materials, not added as part of the recipe.)

### Section 12: ECOLOGICAL INFORMATION

The chemicals in this product are contained in a sealed can and exposure does not occur during normal handling and use.

Mercury, Lead and Cadmium are not used in the cell. (Note: If traces are found, they may be from impurity of the raw materials, not added as part of the recipe.)

### Section 13: DISPOSAL CONSIDERATIONS (GHS – Section 13)



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|                                    |                                                                                                                                                                                                                                                          |  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Collect and Proper Disposal</b> | Dispose of used (or excess) batteries in compliance with federal, state/provincial, and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. |  |
| <b>Requirements of EU</b>          | After use, the cells and/or batteries must be disposed separately from unsorted municipal waste and delivered to a commercial or authorized collection/recycling facility.                                                                               |  |
| <b>Requirements of Brazil</b>      | After use, the cells and/or batteries must be delivered to the commercial establishment or authorized technical assistance network.                                                                                                                      |  |

### Section 14: TRANSPORT INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Regulatory Status</b>                                | Alkaline cells and batteries (sometimes referred to as "Dry Cell" or "household" batteries) are not listed or regulated as dangerous goods under IATA Dangerous Goods Regulations, ICAO Technical Instructions, IMDG Code, UN Model Regulations, U.S. Hazardous Materials Regulations (49 CFR), and UNECE ADR.                                                                                                    |
| <b>UN Identification Number/Shipping Name</b>           | None - Not Required                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Special Provisions (SP) Conformance</b>              | Special regulatory provisions require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits. Shippers can prepare batteries by taping the terminals, individually packaging batteries, or otherwise segregating the batteries to prevent risk of creating a short circuit. Batteries shipped in original unopened Duracell packaging is compliant. |
| <b>US DOT SP</b>                                        | 49 CFR 172.102 Special Provision 130                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Air Transport IATA 65<sup>th</sup> edition, ICAO</b> | Special Provision A123. <b>NOTE:</b> The words "NOT RESTRICTED" and "SPECIAL PROVISION A123" must be included on the description of the substance on the Air Waybill when air waybill is issued.                                                                                                                                                                                                                  |
| <b>Marine/Water Transport (IMDG) SP</b>                 | Not regulated by IMDG/IMO.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Emergency Transportation Hotline</b>                 | <b>CHEMTREC 24-Hour Emergency Response Hotline</b>                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | Within the United States, call: +703-527-3887                                                                                                                                                                                                                                                                                                                                                                     |
|                                                         | Outside of the United States, call: +703-527-3887 (Collect)                                                                                                                                                                                                                                                                                                                                                       |

### Section 15: REGULATORY INFORMATION

|                              |                 |
|------------------------------|-----------------|
| <b>GHS Article Exception</b> | Section 1.3.2.1 |
|------------------------------|-----------------|

### Section 16: OTHER INFORMATION

An alkaline battery is a safe consumable product under recommended or normal usage conditions. It is not a dangerous substance or mixture. There are no PSDS supply requirements for Alkaline batteries by the Globally Harmonized System (GHS). Duracell is providing this PSDS as a service to its customers and other users who may make use of alkaline batteries in the workplace. According to standard NR-26 "Safety Signaling", manufacturers or, in the case of import, suppliers of chemical products in the domestic market must make available the PSDS' of chemical products classified as non-hazardous, but whose intended or recommended uses may give rise risks to the safety and health of workers.

**Disclaimer:** This PSDS is intended to provide a summary of our knowledge and guidance regarding the use of this product. The information contained here has been compiled from sources considered by Duracell US Operations, Inc. to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. Duracell US Operations, Inc. assumed no responsibility for injury to the recipient or third parties, or any damage to any property resulting from the misuse of the product.

\*\*\*\*\* End of PSDS \*\*\*\*\*