

Article Information Sheet (AIS)

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 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, IEC 62474, and ANSI C18.4M.

1. Document Information

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| Document Name | Procell Alkaline Batteries (Major and Specialty Cells) |
| Document ID | AIS-Procell ALK |
| Issue Date | 1-May-15 |
| Preparer | Duracell North America Product Safety & Regulatory |
| Last Revision | 1/1/2025 |
| Information Contact | SDS@duracell.com |

2. Company Information

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| Name & Address | Duracell US Operations , 14 Research Drive, Bethel, CT USA 06801. Duracell Batteries BV , Nijverheidslaan 7, 3200 Aarschot, Belgium. Duracell International Operations Sàrl , Rue du Pré- de-la-Bichette 1, CH-1202, Geneva, Switzerland. |
| Global Website | www.procell.com |
| Consumer Relations: North America | North America: 1-800-551-2355 (9:00 AM - 5:00 PM EST) |

3. Article Information

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| Description | Procell branded consumer alkaline battery |
| Product Category | Electro-technical device |
| Global sub-brands | Procell, Intense, Constant |
| Use | Portable power source for electronic devices |
| Physical Descriptions (IEC Designations) | <u>Major Cells</u> : AA (LR6), AAA (LR03), C (LR14), D (LR20), 4.5V (3LR12) & 9V (6LR61, 6LP3146) <u>Battery Packs</u> : Style- F, Style-B, ILCO |

4. Composition/Information on Ingredients

| Components | Ingredients | CAS Number | Amount |
|-------------------------------------|---|--------------------------|----------------|
| Electrode – Negative | Zinc | 7440-66-6 | 10-25% |
| Electrode – Positive | Manganese Dioxide Nickel Compounds | 1313-13-9 Proprietary | 35-40% 0-6% |
| Electrolyte | Alkali Metal Hydroxide (Potassium Hydroxide) | 1310-58-3 | 5-10% |
| Can | Nickel-plated Steel | 7440-02-0 | 8-15% |
| Other Non-Reactive Materials | | | 10-15% |

5. Health & Safety

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| First Aid - If swallowed | Do not induce vomiting. Seek medical attention immediately. For information on treatment, call the National Battery Ingestion Hotline (telephone numbers for the USA and Canada are provided below). |
| First Aid - Eye Contact | Flush with water for at least 15 minutes. Seek medical care if irritation persists. |
| First Aid - Skin Contact | Remove contaminated clothing. Wash skin with soap and water. Seek medical care if irritation persists. |
| First Aid - Inhalation | Remove to fresh air. |
| Poison Center/North America | USA/Canada Calls Only: 1-800-498-8666 (Toll Free) (24-Hour National Battery Ingestion Hotline) |
| Poison Centers/World Directory | http://globalcrisis.info/poisonemergency.html#AAA |

6. Fire Hazard & Firefighting

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| Fire Hazard | Batteries may rupture or leak if involved in a fire. Use any extinguishing media appropriate for the surrounding area. |
| Fires Involving Large Quantities of Batteries | Large quantities of batteries involved in a fire will rupture and release caustic potassium hydroxide. Firefighters should wear self-contained breathing apparatus and protective clothing. |

7. Handling & Storage

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| Handling Precautions | Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. |
| Storage Precautions | Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer. |

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| 8. Disposal Considerations (GHS Section 13) | |
| Collection & Proper Disposal | 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. In regions/states that require recycling, dispose within the collection network. |
| 9. Transport Information (GHS Section 14) | |
| Regulatory Status | Alkaline 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. |
| Special Provision (SP) Conformance | 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. |
| US DOT SP | 49 CFR 172.102 Special Provision 130 |
| Air Transport IATA 66th Edition, ICAO | Special Provision A123 NOTE: The words "NOT RESTRICTED" and "SPECIAL PROVISION A123" must be included on the description of the substance on the Air Waybill, when air way-bill is issued. |
| Emergency Transportation Hotline | CHEMTREC 24-Hour Emergency Response Hotline Within the United States call +703-527-3887 Outside the United States, call +1 703-527-3887 (Collect) |
| 10. Regulatory Information (GHS Section 15) | |
| 10a. Applicable Battery Industry Standards | |
| ANSI C18.1M Part 1, ANSI C18.1M Part 2, ANSI C18.4M, IEC 60086-1, IEC 60086-2, IEC 60086-5 | |
| 10b. Battery Requirements | |
| USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 | During the manufacturing process, no mercury is added. |
| P.R.C. Provision on Mercury Content Limitation for Batteries (GB 8897.5-2013, MOD, Section 9.1(e)) | 无汞 |
| P.R.C. Mercury Free Battery (GB 24427-2021) < 1ppm | Yes |
| CANADA Products Containing Mercury Regulations SOR/20140254 | Mercury free |
| 10c. Battery Requirements | |
| USA CPSIA 2008 (PL. 11900314) | Exempt |
| USA CPSC FHSA (16 CFR 1500) | Consumer batteries are not listed as a hazardous product. |
| USA EPA TSCA Section 13 (40 CFR 707.20) | For customs clearance purpose, batteries are defined as an "Article". |
| USA EPA RCRA (40 CFR 261) | Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal. |
| California Prop 65 | No warning required per 3rd party assessment. |
| EU REACH REGULATION (EC) NO. 1907/2006 and REACH SVHC | Regulated as an "article." No listed SVHC substances are present (>0.1% w/w) in accordance with ECJ article definition of 10 September 2015. This SVHC communication is based on the best available information to us. Duracell is managing compliance with EU REACH as part of our daily quality, safety, and regulatory activities. The Candidate List of SVHC's is updated approximately bi-annually and Duracell will update this declaration accordingly if the updated SHVC list affects the assessment herein. |
| EU POP regulation (Regulation (EU) 2019/1021) and their attendant amendments | Duracell cells and batteries do not contain Persistent Organic Pollutants |
| 10d. Regulatory Definitions - Articles | |
| USA OSHA | 29 CFR 1910.1200(b)(6)(v) |
| USA TSCA | 40 CFR 704.3; 710.2(3)(c); and [19 CFR 12.1209a] |
| EU & UK REACH | Title 1 - Chapter 2 - Article 3(3) |
| GHS | Section 1.3.2.1 |
| 11. Other Information | |
| 11a. Certification & 3rd Party Approvals | |
| Note: UL Listing applies to all 9V and only AA manufactured in USA and China. | |
| UL (UTGT2.S50939 Single Multiple | AA, 9V Certification Standard: ANSI/UL 217 Single & Multiple Station Smoke Alarms |

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| Station Smoke Alarms - Component) | |
| 11b. AIS Hazard Communication Approaches (consulted in developing this document): | |
| Globally Harmonized System (GHS) | GHS SDS requirements and classification criteria do not apply to articles or products (such as batteries) that have a fixed shape, which are not intended to release a chemical. The article exemption is found in Section 1.3.2.1.1 of the GHS and reads: <i>The GHS applies to pure substances and their dilute solutions and to mixtures. "Articles" as defined by the Hazard Communication Standard (29 CFR 1900.1200) of the OSHA of the USA, or by similar definition, are outside the scope of the system.</i> |
| Joint Article Management Promotion Consortium JAMP | JAMP is a Japanese Industry Association who developed the concept of an Article Information Sheet as a supply chain tool to share and communicate chemical information in articles. The AIS authoring process is based on "declarable" substances to meet global regulatory requirements as well as substances to be reported by GADSL, JIG, etc. |
| IEC 62474 Ed. 1.0 B:2012 Material Declaration for Products of and for the Electro-technical Industry | An international standard that came into effect in March 2012 concerning declaration for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide – Material Declaration for Electro-technical Products (July 2023) |
| IEC 62474 Database - Publicly available online (maintained by TC11: Environmental Standardization for electrical and electronic products and systems. | The general principle for a substance to be included in the database as a declarable substance is: 1) existing national laws or regulations in an IEC member country that are relevant to Electro-technical products and that prohibit or restrict substances, or that have a labeling, communication, reporting or notification requirement, and 2) applying IEC 62474 criteria results in identification of declarable substance. |
| ANSI C18.4M-2017 Portable Cells and Batteries - Environmental | This standard provides regulatory guidance and a template to author an article information sheet for a portable consumer battery. See Annex (informative) C.2 Safety Data Sheets and Annex E (Informative) E. 2 General. |
| ANSI Z 400.1/Z19.1 (2010) | 2.1 Scope: Applies to preparation of SDSs for hazardous chemicals used under occupational conditions. Does not address how the standard may be applied to articles. It presents basic information on how to develop and write a SDS. Additional information is provided to help comply with state and federal environmental and safety laws and regulations. Elements of the standard may be acceptable for international use. |
| DISCLAIMER: This AIS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Duracell 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 assumes no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product. | |