

#### Formerly known as MSDS/PSDS document for Shippers

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and others 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, and IEC 62474.

1. Document Information				
Document Name	Duracell Alkaline Batteries (Major and Specialty Cells)			
Document ID	AIS-ALK			
Issue Date	1-May-15			
Preparer	Product Safety & Regulatory			
Last Revision	1/18/2017			
Information Contact	moquet.l@duracell.com			
2. Company Information				
Name & Address	Duracell US Operations,	Inc., 14 Research Drive, B	ethel, CT USA 06801	
Telephone	(203) 796- 4430			
Website	www.duracell. com			
Consumer Relations	North America: 1-800-551-2355 (9:00 AM - 5:00 PM EST)			
3. Article Information				
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, Turbo, Ultra, Basic, TurboMax			
Global sub-brands (B2B)	Procell, Industrial, OEM/OEA			
Major Cells - Sizes/Part Numbers	(AA) MN/MX 1500; (AAA) MN/MX 2400; (AAAA) MN/MX 2500; ( C) MN/MX 1400; (D) MN/MX			
	1300; (9V) MN/MX1604			
Specialty Cells - Sizes/Part Numbers	MN11, MN21, MN27, MN175, PX76 (LR44), PX28, PX625, (LR09), LR43, LR54, N, J, 4.5V, 625A			
Lanterns - Part Numbers	MN903, MN908, MN915, MN918; MN1203			
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.			
Representative Product Images				
		Drawcert Dravert	DURACELL	
	Maior Cells	Maior Cells	Lantern	Specialty
4. Article Construction				
Applicable Battery Industry Standards	ANSI C18.1M Part 1, ANSI C18.1M Part 2, ANSI C18.4, IEC 60086-1, IEC 60086-2, IEC 60086-5			
Electro-technical System	Alkaline Manganese Dioxide			
Electrode - Negative	Zinc (CAS # 7440-66-6); 10-25%			
Electrode - Positive	Manganese Dioxide (CAS # 1313-13-9); 35-40%			
Electrolyte	Alkali Metal Hydroxide (aqueous potassium hydroxide - CAS # 1310-58-3); 5-10%			
Materials of Construction - Can	Nickel Plated Steel			
Declarable Substances (IEC 62474 Criteria 1)	None			
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes			
Small Cell or Battery (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.			



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5. Health & Safety	
Ingestion/Small Parts Warning	Required for Small Cell or Battery (Sizes: AAA and Specialty Cells): Keep away from children.
	If swallowed, consult a physician immediately.
Normal Conditions of Use	Exposure to contents inside the sealed battery will not occur unless the battery leaks, is
	exposed to high temperatures, or is mechanically abused.
Note to Physician	A damaged battery will release concentrated and caustic potassium hydroxide.
First Aid - If swallowed	Do not induce vomiting. Seek medical attention immediately. USA CALLS ONLY - CALL 24-
	HOUR NATIONAL BATTERY INGESTION HOTLINE: (202) 625-3333 - COLLECT.
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.
Battery Safety Standards & Testing	Duracell batteries meet the requirements of ANSI C18. 1M Part 2 and IEC 60086-5. These
	standards specify tests and requirements for alkaline batteries to ensure safe operation under
	normal use and reasonably foreseeable misuse. The test regimes assess three conditions of
	safety. These are:
	<u><b>1-Intended use simulation:</b></u> Partial use, vibration, thermal shock, and mechanical shock
	<u>2-Reasonably foreseeable misuse:</u> Incorrect installation, external shock, and mechanical shock
	drop), over-discharge, and crush
	<b>3-Design consideration:</b> Thermal abuse, mold stress
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	CALITION: Dettering many available or look, and source huma injury. if repharmed, dispersed of in
Precautionary Statements	<b>CAUTION:</b> Batteries may explode or leak, and cause burn injury, if recharged, disposed of in
	fire, mixed with a different battery type, inserted backwards or disassembled. Replace all
	used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not
	remove the battery label. Keep small batteries (i.e., AAA) away from children. If swallowed,
	consult a physician at once.
6. Fire Hazard & Firefighting	
Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Fires Involving Large Quantities of	Large quantities of batteries involved in a fire will rupture and release caustic potassium
Batteries	hydroxide. Firefighters should wear self-contained breathing apparatus and protective
	clothing.
7. Handling & Storage	
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Handling Precautions Storage Precautions Spills of Large Quantities of Loose	<ul> <li>rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.</li> <li>Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer.</li> <li>Notify spill personnel of large spills. Irritating and flammable vapors may be released from</li> </ul>
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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 Universal Waste Rule (Cal. Code Regs. Title 22, Div. 4.5, Ch. 23)	California prohibits disposal of batteries as trash (including household trash).		
9. Transport Information (GHS Section	n 14)		
Regulatory Status	Not regulated. 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.		
UN Identification Number/ Shipping Name	None - Not Required		
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/ICAO) SP	Special Provision A123 (58th Edition - 2017). 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.		
International Maritime Dangerous Goods (IMDG)	Not regulated/No requirements		
Passenger Air Travel	No restrictions		
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 Sect	ion 15)		
10a. Battery Requirements USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996	During the manufacturing process, no mercury is added.		
EU Battery Directive 2006/66/EC & amendment 2013/56/EU	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbo and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11, Paragraph 1 on batteries and accumulators and waste batteries and accumulators (Annex II).		
P.R.C. Provision on Mercury Content Limitation for Batteries (GB 8897.5- 2005, MOD, Section 9.1(e))	无汞		
P.R.C Mercury Free Battery (GB 24427-2009) < 1 ppm	Yes		
10b. General 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.		

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California Prop 65	No warning required per 3rd party assessment.		
CANADA Products Containing	Mercury free		
Mercury Regulations SOR/20140254			
EU REACH REGULATION (EC) NO.	Regulated as an "Article". No listed substances are present (>0.01% w/w) in accordance with		
1907/2006	ECJ article definition of 10 September 2015. If needed, a declaration (DoC) confirming the		
	current SVHC Candidate List can be downloaded from the Duracell web site		
	(https://www.duracell.com/en-us/for-business/) Folder: "Environmental & Regulatory."		
EU REACH Article 31	SDS is not required consumer alkaline batteries.		
10c. 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 REACH	Title 1 - Chapter 2 - Article 3(3)		
GHS	Section 1.3.2.1		
11. Other Information			
11a. Certification & 3rd Party Approv	als		
UL (UTGT2.S50939 Single Multiple	AA, 9V		
Station Smoke Alarms - Component)	Certification Standard: ANSI/UL 217 Single & Multiple Station Smoke Alarms		
11b. AIS Hazard Communication Appr	oaches (consulted in developing this document):		
Globally Harmonized System (GHS)			
	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: 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."		
Joint Article Management Promotion	JAMP is a Japanese Industry Association who developed the concept of an Article Information		
Consortium JAMP	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	An international standard that came into effect in March 2012 concerning declaration for		
Declaration for Products of and for	electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide –		
the Electro-technical Industry	Material Declaration for Electro-technical Products (JIG-101-Ed 4.1 (May 21, 2012)		
IEC 62474 Database - Publically	The general principle for a substance to be included in the database as a declarable substance		
available online (maintained by TC11	is: 1) existing national laws or regulations in an IEC member country that are relevant to		
Environmental Standardization for	Electro-technical products and that prohibit or restrict substances, or that have a labeling,		
electrical and electronic products and	communication, reporting or notification requirement, and 2) applying IEC 62474 criteria		
systems.	results in identification of declarable substance.		
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.		



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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.