### Article Information Sheet (AIS)

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 Batteri	es (Major and Specialty (	Cells)	
Document ID	AIS-ALK			
Issue Date	1-May-15			
Preparer	Product Safety & Regulat	ory		
Last Revision	7/22/2016			
Information Contact	moquet.l@duracell.com	<u>n</u>		
2. Company Information				
Name & Address	Duracell US Operations, I	nc., 14 Research Drive, B	ethel, CT USA 06801	
Telephone	(203) 796- 4430			
Website	www.duracell.com			
Consumer Relations	North America: 1-800-55	1-2355 (9:00 AM - 5:00 P	M EST)	
3. Article Information				
Description	Duracell branded consun	ner alkaline battery		
Product Category	Electro-technical device			
Use	Portable power source for	or electronic devices		
Global sub-brands (Retail)		m, Simply, Turbo, Ultra, B	asic, TurboMax	
Global sub-brands (B2B)	Procell, Industrial, OEM/			
Major Cells - Sizes/Part Numbers		) MN/MX 2400; (AAAA) M	1N/MX 2500; ( C) MN/N	/IX 1400; (D) MN/MX
	1300: (9V) MN/MX1604	, , , , , ,		
Specialty Cells - Sizes/Part Numbers		N175, PX76 (LR44), PX28,	PX625, (LR09), LR43, LF	R54, N, J, 4.5V, 625A
Lanterns - Part Numbers	MN903, MN908, MN915	, MN918; MN1203		
Principles of Operation	A battery powers a devic	e by converting stored ch	emical energy into elec	trical energy.
Representative Product Images			DÜRVETL	
4. Article Construction	Maior Cells	Maior Cells	Lantern	Specialty
Applicable Battery Industry Standards	ANSI C18.1M Part 1, ANS	I C18.1M Part 2, ANSI C18	3.4, IEC 60086-1, IEC 60	086-2, IEC 60086-5
Electro-technical System	Alkaline Manganese Diox	tide		
Electrode - Negative	Zinc (CAS # 7440-66-6); 1	.0-25%		
Electrode - Positive	Manganese Dioxide (CAS	# 1313-13-9); 35-40%		
Electrolyte	Alkali Metal Hydroxide (a	queous potassium hydro:	xide - CAS # 1310-58-3)	; 5-10%
Materials of Construction - Can	Nickel Plated Steel			
Declarable Substances	None			
(IEC 62474 Criteria 1)				
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes			
Small Cell or Battery	Sizes: AAA and Specialty	Cells fit inside a specially	designed test cylinder ?	25 inches (57 1mm)
(ANSI C18.1M Part 2; IEC 60086-5)	long by 1.25 inches (31.7		acsigned test cymrder 2	
(ANDI CTO. LIVI PAIL 2; IEC 00080-5)	IOUR DY 1.23 INCHES (31.7	o 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>1-Intended use simulation:</u> Partial use, vibration, thermal shock, and mechanical shock <u>2-Reasonably foreseeable misuse:</u> Incorrect installation, external short-circuit, free fall (user- drop), over-discharge, and crush <u>3-Design consideration:</u> Thermal abuse, mold stress
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 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	
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.
Spills of Large Quantities of Loose Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.
8. Disposal Considerations (GHS Secti	on 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 countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.



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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	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 (57th Edition - 2016). 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 symbol 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) USA EPA TSCA Section 13 (40 CFR	Consumer batteries are not listed as a hazardous product. For customs clearance purpose, batteries are defined as an "Article".
707.20) 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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•	No warning required per 3rd party assessment.	
CANADA Products Containing	Mercury free	
Mercury Regulations SOR/20140254		
EU REACH SVHC's (169 Substances)	No listed substances are present (>0.01% w/w)	
Candidate List June 2016)		
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)	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: <b>The GHS applies to pure</b>	
	substances and their dilute solutions and to mixtures. "Articles" as defined by the Hazard	
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Joint Article Management Promotion Consortium JAMP	Communication Standard (29 CFR 1900.1200) of the OSHA of the USA, or by similar definition, are outside the scope of the system." 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	
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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.