Article Information Sheet (AIS)

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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

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Document Name	Duracell Nickel Metal Hydride (NiMH) Rechargeable Batteries
Document ID	AIS-NIMH
Issue Date	1-Dec-15
Version	3a
Preparer	Product Safety & Regulatory
Last Revision	1/18/2017
Information Contact	benoit.sa@duracell.com
2. Company Information	
Name & Address	Duracell US Operations, Inc., 14 Research Drive, Bethel, CT USA 06801
Telephone	(203) 796- 4000
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 nickel metal hydride rechargeable battery
Product Category	Electro-technical device
Use	Portable power source for electronic devices
Global sub-brands (Retail)	RECHARGEABLE
Sizes	AA, AAA, C, D & 9V
IEC Designations	HR6, HR03, HR9V, HR14, HR20
(IEC 62133)	
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.

Representative Product Image



4. Article Construction

Applicable Battery Industry Standards ANSI C18.2M Part 1, ANSI C18.2M Part 2, ANSI C18.4, IEC 61951-2, IEC 62133

Nickel Metal Hydride
Metal hydride
Nickel oxides
Alkali Metal Hydroxide (aqueous potassium hydroxide - CAS # 1310-58-3)
Nickel Plated Steel
None - See Section 10b (EU REACH ANNEX XVII) of this document (page 4)
Yes

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Small Cell or Battery (ANSI C18.1M Part 2; IEC 60086-5)	Size AAA fits inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide.
5. Health & Safety	
Ingestion/Small Parts Warning	Required for Battery Size AAA: 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. 2M Part 2; IEC 61951-2, and IEC 62133. 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	(For AAA & Smaller) "CAUTION: Keep batteries away from children. If swallowed, consult a physician at once. For information on treatment, call (202) 625-3333 collect." (All sizes)" CAUTION: Never use different battery brands, types, capacities, or systems at the same time. For proper insertion, please observe pole indications (+/-). Duracell battery charger recommended. Keep batteries away from fire, or explosion may occur."
6. Fire Hazard & Firefighting	Dattaries may supture as leak if involved in a fire
Fire Hazard Extinguishing Media	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	
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	Notify spill personnel of large spills. Irritating and flammable vapors may be released from
Batteries (unpackaged)	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 Sect	ion 13)

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Collection & Proper Disposal	Dispose of used (or excess) betteries in compliance with federal state/provincial and
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.
USA EPA RCRA (40 CFR 261)	Nickel metal hydride rechargeable batteries are considered RCRA Universal Waste as long
	as they are recycled. In some states (California, New York, Minnesota, and Maine) Nickel
- 116	metal hydride batteries must be recycled by state law.
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	
Regulatory Status	Nickel metal hydride (NiMH) batteries are not defined as dangerous goods under IATA,
	ICAO, and DOT. For air and ground transportation these batteries are not subject to
	dangerous goods regulations. Shipping packages for all Duracell NiMH batteries are designed to prevent: short circuits, movement withn the package, damage to the
	cells/batteries, and release of the package contents. <u>NIMH batteries are defined as</u>
	dangerous goods under IMDG code for sea transportation.
UN Identification Number/	UN3496 - Batteries, Nickel Metal Hydride
Shipping Name	Encodel regulatory provisions require batteries to be packaged in a menner that provents
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.
Internation Maritme Dangerous	CODE: UN-3496, SP-117 & SP-963
Goods (IMDG)	CODE. UN-5450, 5F-117 & 5F-505
US DOT SP	49 CFR 172.102 Special Provisions 130 and 340
Air Transport (IATA/ICAO) SP	Special Provision A123 (IATA 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.
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 Sec	tion 15)
10a. Battery Requirements	
USA EPA Mercury Containing &	During the manufacturing process, no mercury is added.
Rechargeable Battery Management	
Act of 1996	
EU Battery Directive 2006/66/EC	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium
& amendment 2013/56/EU	(<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).
10b. General Requirements	(r).
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	For customs clearance purpose, batteries are defined as an "Article".
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USA EPA RCRA (40 CFR 261)	Nickel metal hydride rechargeable batteries are considered RCRA Universal Waste as long as they are recycled. In some states (California, New York, Minnesota, and Maine) Nickel metal hydride batteries must be recycled by state law.
California Prop 65	No warning required per 3rd party assessment.
CANADA Products Containing	Mercury free
Mercury Regulations SOR/20140254	
EU REACH REGULATION (EC) NO. 1907/2006	Regulated as an "article." No listed substances are present (>0.01% w/w) in accordance with 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 Annex XVII	The use of nickel in batteries does not meet the conditions of restriction described for Annex XVII Item #27 - Nickel. The use restriction applies for articles intended to come into direct and prolonged contact with the skin, specifically pierced earring posts and other types of jewelry.
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	
AIS Hazard Communication Approach	es (consulted in developing this document):
	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: The GHS applies to <i>pure substances and their dilute solutions and to mixtures.</i> "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
Consortium JAMP	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 (JIG-101-Ed 4.1 (May 21, 2012)
Environmental Standardization for	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 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.