

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, IEC 62474, and ANSI C18.4M.

	Duracell Nickel Metal Hydride (NiMH) Rechargeable Batteries	
Document Name	Duracell Nickel Metal Hydride (NiMH) Rechargeable Batteries	
	packaged with/in equipment (Duracell chargers/devices)	
Document ID	AIS-NIMH	
Issue Date	15-Jan-20	
Version	6.a	
Preparer	Product Safety & Regulatory	
Last Revision	4/27/2021	
Information Contact	SDS@duracell.com	
2. Company Information		
NA 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.	
Telephone	(203) 796- 4000	
Global Website	www.duracell. com	
Consumer Relations: NA	North America: 1-800-551-2355 (9:00 AM - 5:00 PM EST)	
	(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) 78734857,	
	(SE) 0852503857, (FI) 0942705057, (NO) 63791957,	
	(ZA) +27211403500, (RO) 021 3361915, (MD) 022472402,	
Consumer Relations: E&A	(BG) 02 40 24 500, (BIH) 033756000, (MNE) 020261920,	
	(PL) 22 692 42 77, (LT) (8) 37 401 111, (LV) 67798667,	
	(EE) +3726505555, (CZ) +420233332010, (SK) +42153419601,	
	(HU) 0620 770 7099, (HR) 0800 0009, (SI) 01/588 6800,	
	(AZ) 812 3100949, (UA) +380444909771 (ДП «CAB 92») &	
	+380442476704 (TOB «IHBECTKOM»),	
	(KZ) +7 727 250 05 50, (TM) 00865 530070,	
	(KG) 0312 41 77 04 (Apple City International),	
	(TR) 0 850 502 61 40.	
3. Article Information	(1.1) 0 000 002 02 10.	
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)		

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Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.		
Representative Product Images	DURACELL RECHARGEABLE #1TRUSTED BRAND DURACELL VARIABLE WARREN OMEGINA DURACELL FASTER VALUE CHARGER SON LONGER SYCARS OMEGINA FOR STREET FOR STREET		
4. Article Construction			
Applicable Battery Industry	ANSI C18.2M Part 1, ANSI C18.2M Part 2, ANSI C18.4, IEC 61951-2, IEC		
Standards	62133		
Electro-technical System	Nickel Metal Hydride		
Anode (Electrode - Negative)	Metal hydride contains iron, nickel & cobalt		
Cathode (Electrode - Positive)	Nickel hydroxide (CAS# 12054-48-7)		
Electrolyte	Alkali Metal Hydroxide (aqueous potassium hydroxide - CAS # 1310-58-3)		
Materials of Construction - Can	Nickel Plated Steel		
Declarable Substances (IEC 62474 Criteria 1)	None - See Section 10b (EU REACH ANNEX XVII) of this document (page 4)		
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes		
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. For information on treatment, call 24-Hour National Battery Ingestion Hotline (telephone number below).		
24-Hour National Battery Ingestion Hotline	USA/CANADA CALLS ONLY:: 800-498-8666		
Poison Centers - World Directory	http://globalcrisis.info/poisonemergency.html#AAA		
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.		

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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: 1-Intended use simulation: Partial use, vibration, thermal shock, and mechanical shock 2-Reasonably foreseeable misuse: Incorrect installation, external short-circuit, free fall (user-drop), over-discharge, and crush 3-Design consideration: 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	
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 Sect	ion 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)	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 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 Sectio	n 14)
Regulatory Status	Nickel metal hydride (NiMH) batteries are not defined as dangerous goods under IATA, ICAO, and DOT.
	NIMH batteries packed in/with battery chargers, devices, or equipment are not regulated.
	NIMH batteries, not shipped with/in devices or chargers, are defined as UN3496 dangerous goods under IMDG code for sea transportation with Special Provision (SP) SP177 and SP963 applicable.
	 SP963 States: Nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to the provisions of the IMDG Code. All other nickel-metal hydride cells or batteries shall be securely packed and protected from short circuit. They are not subject to other provisions of this Code provided that they are loaded in a cargo transport unit in a total quantity of less than 100 Kg gross mass. When loaded in a cargo transport unit in a total quantity of 100 Kg gross mass or more, they are not subject to other provisions of this Code except those of 5.4.1, 5.4.3 and column (16) of the dangerous good list in Chapter 3.2. The requirements of the 5.4.1 & 5.4.3 sections and column (16) are: dangerous goods transport documentation to accompany the shipment, the shipment must be described as "UN3496, BATTERIES, NICKEL-METAL HYDRIDE, CLASS 9" on the shipper's declaration for dangerous goods. The dangerous goods description must also be entered on the Dangerous Cargo Manifest and/or the detailed stowage plan in compliance with the IMDG Code requirements for shipboard documentation. Stowage away from sources of heat.
UN Identification Number/ Shipping Name	UN3496 - Batteries, Nickel Metal Hydride
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 Goods (IMDG)	CODE: UN-3496, SP-117 & SP-963 [2018 EDITION]
US DOT SP	49 CFR 172.102 Special Provisions 130 and 340

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Air Transport (IATA/ICAO) SP	Special Provision A199 (IATA 62nd Edition - 2021). NOTE: The words		
	"NOT RESTRICTED" and "SPECIAL PROVISION A199" must be included on the description of the substance on the Air Waybill, when air way-bill is issued.		
	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 Sect	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		
& amendment 2013/56/EU	(<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).		
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)	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 Regulations SOR/20140254	Mercury free		
EU REACH REGULATION (EC) NO. 1907/2006	Regulated as an "article." No listed substances are present (>0.1% 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: "Environmenta & 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)		
	Section 1.3.2.1		

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11. Other Information

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: 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 **Consortium JAMP** 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 An international standard that came into effect in March 2012 **Declaration for Products of and for** concerning declaration for electrical and electronic products. IEC 6274 the Electro-technical Industry replaces the defunct Joint Industry Guide - 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 available online (maintained by declarable substance is: 1) existing national laws or regulations in an IEC TC11: Environmental Standardization member country that are relevant to Electro-technical products and that for electrical and electronic products prohibit or restrict substances, or that have a labeling, communication, and systems. reporting or notification requirement, and 2) applying IEC 62474 criteria results in identification of declarable substance. ANSI C18.4M-2017 Portable Cells and This standard provides regulatory guidance and a template to author an **Batteries - Environmental** article information sheet for a portable consumer battery. See Annex (Informational) 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

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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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