Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and others users requesting a GHScompliant 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				
Document Name	Duracell Lithium Coin Batteries (primary lithium metal cells and batteries)			
Document ID	AIS-LiCoin			
Document Report No.	DURAAISLICOIN 072020			
Issue Date	1-Jul-15			
Version	10			
Preparer	Product Safety & Regulatory (PSR)			
Last Revision	11/14/2023			
Information Contact	SDS@duracell.com			
2. Company Information				
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. & EU website = www.duracell.info			
US 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)			
	Latin America			
	(Brazil) 0 800 727 1165, (Chile) 188 800 224 488, (México) 0 1800 283 2901 (Rest of Latin America) duracell.mx.help			
Consumer Relations: E & A	Europe (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-FI- NO-SE) +46 8 799 1926, (NO) 63791957, (ZA) 0800980782, (RO) 021 3361915, (IS) +354 5222700, (MD) +373 0800700 88, (BG) 02 40 24 500, (BIH) 033756000, (MNE) 020261920, (PL) 00800 77628282, (LT) +370 656 40111, (LV) +371 670 48400, (EE) +3726505555, (CZ) +420 233 325 614, (SK) +42153419601, (HU) 0620 770 7099, (HR) 0800 0009, (SI) 01/588 6800, (AZ) 99412 5990511, (UA) +380444909771 (ПрАТ "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, (BG)02/40 24 500, (BIH) 38733756000, (UZ) 998 900123313			
	Asia (CN) 4008850883, (HK) 800-969-950, (TW) 0800-251-122, (AU) 1-800-239901, (NZ) 0800-44- 6869, (KP) 080-393-3000, (SG) 800-120-5608, (TH) 001 800 852 6595, (VN) 120 11543, (MY) 1- 800-81-5379, (ID)001-803-0167294, (PH) 1-800-1110-1392, (IN) 1800-120-7897			
3. Article Information				
Description				
Description	Duracell branded consumer lithium battery			
•	Duracell branded consumer lithium battery Electro-technical device			
Product Category	-			
•	Electro-technical device			
Product Category Use	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk			
Global sub-brands (Retail)	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply			
Product Category Use Global sub-brands (Retail) Global sub-brands (B2B)	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk			
Product Category Use Global sub-brands (Retail) Global sub-brands (B2B) Sizes	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk 1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477			
Product Category Use Global sub-brands (Retail) Global sub-brands (B2B) Sizes IEC Designations	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk 1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477 CR (1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477)			
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Product Category Use Global sub-brands (Retail) Global sub-brands (B2B) Sizes IEC Designations Principles of Operation 4. Article Construction	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk 1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477 CR (1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477) A battery powers a device by converting stored chemical energy into electrical energy.			
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Product Category Use Global sub-brands (Retail) Global sub-brands (B2B) Sizes IEC Designations Principles of Operation 4. Article Construction Applicable Battery Industry Standards Electro-technical System Electrode - Negative	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk 1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477 CR (1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477) A battery powers a device by converting stored chemical energy into electrical energy. ANSI C18.3M Part 1, ANSI C18.3M Part 2, ANSI C18.4, IEC 60086,1, IEC 60086-2, IEC 60086-4 Lithium Manganese Dioxide Lithium Alloy (CAS # 7439-93-2; 0.5-6%) Manganese Dioxide (CAS # 1313-13-9; 12-50%)			
Product Category Use Global sub-brands (Retail) Global sub-brands (B2B) Sizes IEC Designations Principles of Operation 4. Article Construction Applicable Battery Industry Standards Electro-technical System Electrode - Negative Electrode - Positive	Electro-technical device Portable power source for electronic devices. Duracell, Ultra, Simply Bulk 1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477 CR (1216, 1220, 1616, 1620, 1632, 2016, 2025, 2032, 2430, 2450, 2477) A battery powers a device by converting stored chemical energy into electrical energy. ANSI C18.3M Part 1, ANSI C18.3M Part 2, ANSI C18.4, IEC 60086,1, IEC 60086-2, IEC 60086-4 Lithium Manganese Dioxide Lithium Alloy (CAS # 7439-93-2; 0.5-6%)			

Plastic Parts	Polypropylene (CAS# 9003-07-0; 0.5-10%)					
Materials of Construction - Can	Steel (CAS #7431-89-6; 7440-47-3; 30-85%)					
Declarable Substances (IEC 62474 Criteria 1)	1-2-Dimethoxyethane (CAS # 110-71-4)					
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes					
Small Cell or Battery (ANSI C18.1M Part 2; IEC 60086-4	Lithium coin batteries fit inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide.					
Bitterant (Denatonium benzoate; CAS# 3734-33-4) Bitterant Application Scope: Lithium Coin sizes 2032, 2025, and 2016 ONLY.	Lithium coin battery sizes 2016, 2025 & 2032 have a transparent layer of bitterant (denatonium benzoate) applied to the negative side of the coin cell. Denatonium benzoate has a long history of being added to many different types of consumer products to help prevent childhood ingestion of potentially harmful substances.					
5. Health & Safety						
Ingestion/Small Parts Warning	Required for all sizes of lithium coin batteries: Keepout of reach of children. If swallowed, consult a physician immediately. ANSI or IEC requirements					
	WARNING OR BENEFACTOR					
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.					
	attention immediately and call 24 hour NATIONAL BATTERY INGESTION HOTLINE (800-498- 8666) for assistance with battery identification and treatment. Attempt to determine battery imprint code (or diameter) of companion or replacement battery. If no imprint code is available, measure or estimate the battery diameter based on the size of the slot the battery fits or the size of the comparable battery. Provide this information to the treating health care provider. If the child is greater than 12 months of age and able to swallow, and the battery was swallowed within the prior 12 hours, if readily available administer honey immediately and while on route to the emergency room. Give 10 mL (2 teaspoons) of honey by mouth every 10 minutes for up to 6 doses. Do not delay going to the ER to obtain or give honey. Other than the honey do not give anything by mouth.					
Note to Physician	Note to Physician – For information on battery identification and treatment, call the 24-hour NATIONAL BATTERY INGESTION HOTLINE (800-498-8666). Additional treatment information is available from the NATIONAL CAPITAL POISON CONTROL CENTER BUTTON BATTERY INGESTION TRIAGE AND TREATMENT GUIDELINE: https://www.poison.org/battery/guideline. If the patient is less than or equal to 12 years, immediately obtain an x-ray t o locate the battery. If the patient is > 12 years and the battery diameter is > than 12 mm or unknown also obtain an x-ray. X-rays should include the entire neck, esophagus and abdomen. Once the position of the battery in the esophagus is determined by x- ray and if less than 12 hours post ingestion consider giving sucralfate suspension 10ml by mouth every 10 minutes, up to 3 doses while waiting for sedation for endoscopy.					
	Do not delay battery removal because a patient has eaten recently or was given honey or sucralfate by mouth. Batteries lodged in the esophagus should be removed immediately since battery leakage, caustic burns and perforation can occur as soon as two hours after ingestion. Endoscopic removal is preferred as it allows direct visualization of tissue injury. After the battery is removed from the esophagus if no perforation is evident irrigate the injured area with 50 mL to 150 mL of 0.25% sterile acetic acid and then observe for delayed complications. If a large battery (equal to or greater than 20 mm) is in the stomach or beyond of a child < 5 years, and based on history, might have lodged in the esophagus for > 2 hours, consider diagnostic endoscopy to exclude the remote possibility of esophageal injury. Retrieve batteries, endoscopically if possible, from the stomach or beyond if: 1) A magnet was also ingested, 2) The patient develops signs or symptoms that are likely related to a battery ingestion, or, 3) A large battery equal to or greater than 15 mm is ingested by a child younger than 6 years, remains in the stomach for 4 days or longer. Allow batteries to pass spontaneously if they have passed beyond the esophagus (stomach and beyond) and no clinical indication of any significant gastrointestinal injury is evident. Confirm battery passage by inspecting stools. Consider repeat radiographs to confirm passage if battery passage not observed in 10-14 days.					
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
First Aid - Eye Contact	Flush with running water for at least 30 minutes. Seek medical attention immediately.
First Aid - Skin Contact	Remove contaminated clothing and flush skin with running water for at least 15 minutes. Seek medical attention if irritation persists.
First Aid - Inhalation	Contents of leaking battery may be irritating to respiratory passages. Move to fresh air. Seek medical attention if irritation persists.
Battery Safety Standards & Testing	Duracell lithium coin cell batteries meet the requirements of ANSI C18. 3M Part 2 and IEC 60086- 4. These standards specify tests and requirements for lithum primary cells and 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	CAUTION: Keep batteries away from children. If swallowed, consult a physician at once. For information on treatment, within North America call 1-800-498-8666 (Toll Free) . Ingestion may lead to serious injury or death. Cell can explode or leak if heated, disassembled, shorted, recharged, exposed to fire or high temperature or inserted incorrectly. Keep in original package until ready to use. Do not carry batteries loose in your pocket or purse.
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. For incipient (beginning) fires, carbon dioxide extinguishers or copious amounts of water are effective in cooling burning lithium metal batteries. If fire progresses to where lithium metal is exposed (deep red flames), use a Class D extinguisher suitable for lithium metal.
Fires Involving Large Quantities of Batteries	Large quantities of batteries involved in a fire will rupture and release irritating fumes from thermal degradation
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 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 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)	"Charged" lithium coin batteries meet the criteria (D003 - Reactivity) of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.23. If recycled, lithium coin batteries are classified as Universal Waste.
USA DOT (49 CFR 173.184 (d))	d) Lithium cells or batteries shipped for disposal or recycling. A lithium cell or battery, including a lithium cell or battery contained in equipment, that is transported by motor vehicle to a permitted storage facility or disposal site, or for purposes of recycling, is excepted from the testing and record keeping requirements of paragraph (a) and the specification packaging requirements of paragraph (b)(3) of this section, when packed in a strong outer packaging conforming to the requirements of §§173.24 and 173.24a. A lithium cell or battery that meets the size, packaging, and hazard communication conditions in paragraph (c)(1)-(3) of this section is excepted from subparts C through H of part 172 of this subchapter.

Article Information Sheet (AIS)

DURACELL

California Universal Waste Rule (Cal. Code Regs. Title 22, Div. 4.5, Ch. 23)	California prohil	bits disposal of ba	tteries as t	trash (including hou	isehold trash).	
Vermont Primary Battery Stewardship Law (ACT 139)	In Vermont, consumers must recycle lithium coin batteries. For information, contact http://www.call2recycle.org.					
Requirements of EU	After use, the cells and/or batteries must be disposed separately from unsorted municipal waste and delivered to a commercial or authorized collection/recycling facility.					
Requirements of Brazil	After use, the cells and/or batteries must be delivered to the commercial or authorized technical assistance network.					
9. Transport Information (GHS Section 14	4)					
Regulatory Status	Duracell Lithium Coin Batteries are manufactured and distributed according to current global transportation regulations. The shipping cartons for all Duracell Lithium cells/batteries are designed to prevent short circuit, displacement within the package, damage to the batteries and release of the contents of the package. Persons preparing or distributing lithium batteries for transportation are required by regulations to be trained in their level of responsibility. The information in this section has been provided for clarification. The transportation of lithium metal batteries is regulated by ICAO, IATA, IMDG,IMO, US DOT,ADR.					
DEFECTIVE Lithium Batteries					and Cargo Aircraft. For al gulated as <u>Dangerous G</u>	
Total Lithium Content (grams)	Catalog	Total Lithium Content (grams)	Туре	Total Cell/Battery Weight (grams)		
	1216	<0.3	Cell	<1		
	1220	<0.3	Cell	<1		
	1616	<0.3	Cell	1.2		
	1620	<0.4	Cell	1.3		
	1632	<0.3	Cell	1.8		
	2016	<0.4	Cell	2		
	2025	<0.3	Cell	2.4		
	2032	<0.3	Cell	2.9		
	2430	<0.3	Cell	4.5		
	2450	<0.3	Cell	6.6		
	2477	<0.3	Cell	9.0		
UN Identification Number/ Shipping Name		y lithium metal ba		ked with or contain	ed in equipment	
UN 38.3 Transportation Tests	UN38.3 Test Summary Documents that are required by the UN Model Regulations, can be requested by sending an email request to UN38.3_duracell@duracell.com.					
Special Provisions 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					
Air Transport IATA 64th Edition, ICAO US DOT - SP IMDG - SP ADR - SP	Packaging Instructions (PI) 968 – PI 970 29, A54, A100, A101 188, 230, 310, 957 188, 230, 310, 636, 656					
ANTT (National Land Transportation Agency)	Regulation 5232, 14 Dec 2016; SP 188, 230, 310, 376, 377, 384; Packaging Instructions P903				s P903	
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. 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 & amendment 2013/56/EU	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). EU retail and bulk packaging containing lithium coin batteries are marked with the special collection sysmbol in accordance with Article 21.			
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)	"Charged" lithium coin batteries meet the criteria (D003 - Reactivity) of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.23. If recycled, lithium coin batteries are classified as Universal Waste.			
USA California Prop 65	No warning required per 3rd party assessment.			
USA California Perchlorate Contamination Prevention Act of 2003	Contains perchlorate. <u>Required labeling</u> : Perchlorate material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate			
CANADA Products Containing Mercury Regulations SOR/20140254	Mercury free			
EU REACH REGULATION (EC) NO. 1907/2006	Regulated as an "article." Contains 1,2-dimethoxyethane (CAS# 110-71-4).			
EU REACH SVHC Communication	SVHC Substance Name: 1,2-dimethoxyethane (EGDME) Use: Incorporated in a lithium battery as electrolyte solvent EINEC Number: 203-794-9 CAS Number: 110-71-4 Concentration: The battery contains EGDME –SVHC in a concentration ranging from 1.5 - 3.5% by weight. Because the battery is sealed, 100% of the EGDME-SVHC is contained in the battery. Safe Handling: Do not open the battery or disassemble it. Do not expose to fire or high temperatures (>60°C). At end of life, the battery should be taken back to the nearest collection point established by a National Collection Scheme used for batteries.			
Japan: JIS C 8513:2020	Safety of primary lithium batteries, 2020 which specifies the necessary requirements and test methods to ensure safety during intended use and reasonably foreseeable misuse.			
EU REACH Article 31	An SDS is not required for articles.			
10c. Regulatory Definitions - Articles	An SDS is not required for articles.			
USA OSHA	29 CFR 1910.1200(b)(6)(v)			
USATSCA	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			
GHS 11. Other Information	Section 1.3.2.1			
11a. Certification & 3rd Party Approvals				
UL Listing	Lithium Batteries - Component BBCV2.MH12538			
11b. AIS Hazard Communication Approact	ches (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.</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 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 (JIG-101-Ed 4.1 (May 21, 2012)
IEC 62474 Database - Publically available online (http://std.iec.ch/iec62474). 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 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.
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 C.2 (Informative) Safety Data Sheets and Annex E (Informative) Article Information Sheet.
DISCLAIMER: This AIS is intended to provide a brief set	ummary of our knowledge and guidance regarding the use of this article. 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.