

Technical Note

Summary

This Technical Note provides the safety data sheet for the following batteries:

Defibtech Product / Description	Defibtech P/N	Manufacturer P/N_
DBP-2003 Non-Rechargeable Battery Pack	B-000003	Duracell DL123A
DBP-2013 Non-Rechargeable Battery Pack (FAA)	B-000003	Duracell DL123A

These batteries are used in Defibtech DDU-2000 Series AEDs.

MKT-TN024-040 rev A DURACELL[®]

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 Lithium HPL Cells and Batteries (primary lithium metal cells and batteries)		
Document ID	AIS-Li HPL		
Issue Date	8-Dec-15		
Version	2a		
Preparer	Global Product Stewardship		
Last Revision	1/22/2016		
Information Contact	benoit.sa@duracell.com		
2. Company Information			
Name & Address	Duracell Global Business Unit, 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 lithium battery		
Product Category	Electro-technical device		
Use	Portable power source for electronic devices		
Global sub-brands (Retail)	Duracell, Ultra		
Global sub-brands (B2B)	Bulk		
Sizes	DLCR-2, DLCR-V3, DL1/3N, DL123(DL123A; DL2/3A), DL223 (DL223A), DL245, DL1604, PL123, PX28L		
IEC Designation (IEC-60086-2; Annex D)	CR-P2, 2CR5, CR15H270, CR11108, 2CR13252, CR17345		
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.		
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Representative Product Images	DURACELL DURACELL DURACELL DURACELL DURACELL DURACELL DURACELL DURACELL DURACELL		
4. Article Construction			
Applicable Battery Industry	ANSI C18.3M Part 1, ANSI C18.3M Part 2, ANSI C18.4, IEC 60086,1, IEC 60086-2, IEC		
Standards	60086-4		
Electro-technical System	Lithium Manganese Dioxide		
Electrode - Negative	Lithium Alloy (CAS # 7439-93-2)		
Electrode - Positive	Manganese Dioxide (CAS # 1313-13-9)		
Electrolyte	Propylene Carbonate Solvent (CAS # 108-32-7)		
Electrolyte	1,2-Dimethoxyethane Solvent (CAS # 110-71-4)		
Materials of Construction - Can	Steel (CAS # 110-71-4)		
Declarable Substances	1-2-Dimethoxyethane (CAS # 110-71-4)		
(IEC 62474 Criteria 1)			
Mercury Free Battery	Yes		
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes		
(ANSI C18.4M <5ppm)			
(ANSI C18.4M <5ppm) Small Cell or Battery	Sizes 1/3N, 123, 28L, CR2 fit inside a specially designed test cylinder 2.25 inches (57.1		
(ANSI C18.4M <5ppm)			

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Ingestion	Required for sizes 1/3N, 123, 28L, CR2: Keep away from children. If swallowed,
Normal Conditions of Use	consult a physician immediately. Exposure to contents inside the sealed battery will not occur unless the battery leaks,
Note to Physician	is exposed to high temperatures, or is mechanically abused. <u>Cell Ingestion</u> : Batteries lodged in the esophagus should be removed immediately since leakage, caustic burns and perforation can occur as soon as two hours after ingestion. Irritation to the internal/external mouth areas may occur following exposure to a leaking battery. Published reports recommend removal from the esophagus should be done endoscopically (under direct visualization). Batteries beyond the esophagus need not be retrieved unless there are signs of injury to the GI tract or a large diameter battery fails to pass the pylorus. If asymptomatic, follow-up x- rays are necessary only to confirm the passage of larger batteries. Confirmation by stool inspection is preferable under most circumstances. For information on treatment, call the NATIONAL BATTERY INGESTION HOTLINE @ (202) 625-3333 collect, day or night (USA calls only).
First Aid - If swallowed	<u>DO NOT GIVE IPECAC</u> . Do not induce vomiting. Seek medical attention immediately. USA: CALL NATIONAL BATTERY INGESTION HOTLINE @ (202) 625-3333 COLLECT, DAY OR NIGHT. If mouth area irritation or burning has occurred, rinse mouth and surrounding area with tepdi water for at least 15 minutes
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 metal batteries meet the requirements of ANSI C18. 3M Part 2 and IEC 60086-4. These standards specify tests and requirements for lithium 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 (202) 625-3333 collect. 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 Extinguishing Media	Batteries may rupture or leak if involved in a fire.Use any extinguishing media appropriate for the surrounding area. For incipient(beginning) fires, carbon dioxide extinguishers or copious amounts of water areeffective in cooling burning lithium metal batteries. If fire progresses to where lithiummetal is exposed (deep red flames), use a Class D extinguisher suitable for lithiummetal.

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Batteries from thermal degradation Use a Class "D" fire extinguisher or other smothering agent such as Lith-X, copper powder or dry sand. If using water, use enough to smother the fire. Using an insufficient amount of water will make the fire worse. Cooling exterior of batteries will help prevent rupturing. Burning batteries generate toxic and corroxise lithium hydroxide fumes. Firefighters should wear self-contained breathing apparatus. Detailed information on fighting a lithium metal battery fire can be found in US DOT Emergency Response Guide 138 (Substances-Water-Reactive). 7. Handling & Storage Handling Precautions Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer. Spills of Large Quantities of Lose Notify spill personnel of large spills. Iritating and flammable vapors may be released Batteries (unpackaged) Batteries (unpackaged) Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. On or accumulate large quantities of used batteries and place in appropriate consumers should dispose of their used batteries in the collection at comulate large quantities of rot disposal as accumulations could cause batteries in the collection and trecy ling of batteries. Consumers should dispose of their used batteries in the collection network at municipal depts and retailers. They should not dispose of batteries are defined under the Resource Conservation and Recovery Act (RCAA) 40 CTT 261.2.3. If recycled, lithium metal batteries are classified as Universal Waste.		
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9. Transport Information (GHS Section 14)	California Universal Waste Rule (Cal. Code Regs. Title 22, Div. 4.5, Ch. 23)	California prohibits disposal of batteries as trash (including household trash).
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Special Provisions ConformanceSpecial regulatory provisions require batteries to be packaged in a manner prevents the generation of a dangerous quantity of heat and short circuitsUSA DOT Special Provision49 CFR 173.185(c) SP A101 (packed within equipment by air)USA DOT Exceptions for Lithium Cells or Batteries Shipped for Disposal or Recvcling40 CFR 173.185(d)Air Transport (IATA/ICAO) Packing Instructions (57th edition/2016)PI 968 – Lithium metal batteries (shipped alone) PI 969 – Lithium metal batteries contained in equipment PI 970 – Lithium metal batteries contained in equipment PI 970 – Lithium metal batteries contained in equipmentMarine/Water Transport (IMDG) Special Provision188Passenger Air TravelAir travelers should consult the US Department of Transportation (DOT) Sa	air shipped tteries for sponsibility. . The	delivered in accordance we detal batteries can be by ai epare or offer lithium batter to the extent of their response rmational purposes only. T ted by ICAO, IATA, IMO, AD	acell lithium n ersons who pr to be trained ovided for info	A/ICAO regulations. Dur ce with ICAO or IATA. Pe re required by regulation ation in this section is pro-	current IATA in accordand transport ar The informa	Regulatory Status
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10b. General Requirements					Article 21.	

MKT-TN024-040 rev A **DURACELL**

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".	
707.20)		
USA EPA RCRA (40 CFR 261)	"Charged" lithium metal 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 metal batteries are classified as Universal Waste.	
USA California Prop 65	No warning required per 3rd party assessment.	
CANADA Products Containing	Mercury free	
Mercury Regulations SOR/20140254		
EU REACH SVHC's (168	Contains 1,2-dimethoxyethane (CAS# 110-71-4)	
Substances/Candidate List Updated		
EU REACH SVHC Communication	SVHC Substance Name: 1,2-dimethoxyethane (EGDME)	
	<u>Use</u> : Incorporated in a lithium battery as electrolyte solvent	
	EINEC Number: 203-794-9	
	CAS Number: 110-71-4	
	<u>Concentration</u> : The battery contains EGDME –SVHC in a concentration ranging from	
	1.0 to 5.0% 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.	
EU REACH Article 31	An SDS is not required for articles.	
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		
UL Listing	Lithium Batteries - Component BBCV2.MH12538	
11b. AIS Hazard Communication App	roaches (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 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	An international standard that came into effect in March 2012 concerning declaration	
Declaration for Products of and for	for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry	
the Electro-technical 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.

DISCLAIMER: This AIS is intended to provide a brief summary 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.