PROCELL®
PROFESSIONAL BATTERIES

PSDS – Product Safety Data Sheet

Lithium HPL Batteries

Section 1 Identification:

1.1 Identification:	
Product Form	Article
Trade Name	Duracell Lithium Metal Battery
Description	Procell Branded Consumer Lithium Battery
Physical Description (IEC Designation)	PR (CR2, PC123)
Document ID	PSDS – Procell_LiHPL_Australia
Date Prepared	1/1/2025

1.2 Recommended Use and Restrictions on use:	
Use	Portable power source for electronic devices.
Restrictions on use:	No information available

Section 1.3 SUPPLIER/ MANUFACTURER'S INFORMATION	
Manufacturer's Name and Address	**Duracell Australia Pty. Ltd.** 49 Industrial Road, Unaderra, NSW 2525 Australia **Duracell (China) Ltd.** Hongtu High & New Technology Development Zone, Nan Cheng District, Dongguan, 523080 Guangdong, China **Duracell (Jiangxi) Technologies Co., Ltd**. No. 819 Factory, Huangtang East Street, Linkong Economic Zone Nanchang City, Jiangxi Province, China
Australia Telephone	+61 2 4271 6111

Section 1.4 Emergency Telephone number	
Emergency Telephone	1-703-527-3887 (Collect) (Chemtrec)
Global Website	www.procell.com

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture or article

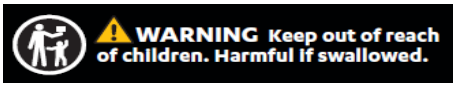
The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, which could cause casualty loss.

2.2 GHS Label elements, including precautionary statements

GHA Pictograms: NONE
GHS Signal Word: NONE

HAZARDS: Battery may explode or leak when heated, disassembled, short-circuited, recharged or exposed to fire or high temperature, or inserted incorrectly. Keep coin batteries out of reach of children.
GHS classification: None required according to ranking criteria. PSDS requirements and GHS classification criteria do not apply to articles or products (such as batteries) that have a fixed shape and are not intended to release a chemical. Article exemption is found in 274 of the NSW Work Health and Safety Act 2011 Section 1.3 and states: The GHS applies to pure substances, their diluted solutions and mixtures.

Labeling: Required for Small Cell or Battery: Keep away from children. If swallowed, consult a physician immediately. ANSI or IEC requirements



Section 3: COMPOSITION/INFOMRATION ON INGREDIENTS

COMPONENTS	INGREDIENTS	CAS NUMBER	Amount
Electrode – Negative	Lithium Alloy	7439-93-2	1-6%
Electrode – Positive	Manganese Dioxide	1313-13-9	12-50%
Electrolyte	Organic Electrolyte 1,2-Dimethoxyethane solvent Propylene Carbonate Solvent	---- 110-71-4 108-84-0	3-9% 1-4% 2-5%
Polytetrafluoroethylene (PTFE)		9002-84-0	0.1-1%
Can	Stainless Steel		8-15%
Other Non-Reactive Materials			10%

Section 4: FIRST AID MEASURES

(In case of electrolyte leakage from the battery.)

Eye Contact	Flush thoroughly with copious amounts of running water for at least 15 minutes. Hold eyelids open to assure thorough flushing. Seek immediate medical attention.
Skin Contact	Immediately remove contaminated clothing and shoes while flushing with water. Continue to flush exposed skin with water for at least 15 minutes. Seek medical attention if irritation develops and persists. Launder contaminated clothing before reuse and discard shoes and other items that cannot be decontaminated.
Ingestion	**Required for Small Cell or Battery: Keep away from children.** If swallowed, consult a physician immediately.
Note to Physician	A damaged battery will release concentrated and caustic potassium hydroxide. For information on battery identification and treatment, call the 24- hour **National Battery Ingestion Hotline (800-408-8666)**. 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. Consider radiographs to confirm passage if battery passage not observed in 10-14 days.
Poison Center World Directory	http://globalcrisis.info/poisonemergency.html#AAA
If swallowed	**DO NOT GIVE IPECAC**. Do not induce vomiting. Seek medical attention immediately and call 24-hour **NATIONAL BATTERY INGESTION HOTLINE** (800-498-8666) for assistance with battery identification and treatment. 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. Attempt to determine battery imprint code (or diameter) of companion or replacement battery. Other than honey, do not give anything by mouth.
Inhalation	Contents of leaking battery may be irritating to respiratory passages. Move to fresh air. Seek medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Substance or Mixture Specific Hazards	Batteries may rupture or leak if involved in a fire. Use any extinguishing media appropriate for the surrounding area.
Fire Fighting Measures	Remove container from fire area if this can be done without risk. Avoid inhaling the material or combustion products. Keep downwind and away from low areas.
Advice for Fire-Fighters	Large quantities of batteries involved in a fire will rupture and release corrosive potassium hydroxide. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from a distance or protected area. Cool fire-exposed containers to prevent rupture. Do not breathe smoke, gases or vapors generated

Section 6: CONTROL MEASURES FOR SPILLAGE OR LEAKAGE

(In case of electrolyte leakage from the battery.)

Spills of Large Quantities of Loose Batteries (unpackaged)	Notify spill personnel of large spills. Irritating vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. 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.
Personal Precautions, Protective Equipment and Emergency Procedures	Clean-up personnel should wear appropriate protective clothing to prevent eye and skin contact and inhalation of dust. Ventilate area of spill. Avoid creating airborne dust. Eliminate all sources of ignition. Keep spilled material away from combustible materials.
Environmental Precautions	Avoid release to the environment without proper government permits. Prevent entry into storm sewers and waterways. Report spills as required by local and national regulations.
Methods and Material for Containment and Cleaning Up	Do not use combustible absorbents or dust control products. Carefully collect material with a scoop. Do not generate airborne dust. Place in appropriate container for disposal. Rinse the spill area with water after clean-up is complete. Collect rinse water for appropriate treatment and disposal. Remove any spilled liquid with absorbent material and contain it for disposal.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling	Do not short circuit, charge, dispose into fire or install incorrectly.
	Do not solder directly onto batteries.
	Do not mix different type or brand of batteries.
Conditions for Safe Storage, Including any Incompatibilities	Store in cool, dry place in original packaging. Do not store with acids. Store away from reducing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This product is considered an article that does not release or result in exposure to a hazardous chemical under normal conditions of use. No engineering controls or personal protective equipment (PPE) is required.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Description	Article; Solid, metallic color
Chemical Properties	Not Applicable

Section 10: STABILITY AND REACTIVITY

Reactivity	Stable and Non-Reactive under 60ºC.
Chemical Stability	Cells/batteries may explode or leak and cause burn injuries when recharged, burnt/incinerated, mixed with different types of batteries, inserted backwards into appliances, or disassembled.

Section 11: TOXICOLOGICAL INFORMATION

The chemicals in this product are contained in a sealed can and exposure does not occur during normal handling and use.
Mercury, Lead and Cadmium are not used in the cell. (Note: If traces are found, they may be from impurity of the raw materials, not added as part of the recipe.)

Section 12: ECOLOGICAL INFORMATION

The chemicals in this product are contained in a sealed can and exposure does not occur during normal handling and use.
Mercury, Lead and Cadmium are not used in the cell. (Note: If traces are found, they may be from impurity of the raw materials, not added as part of the recipe.)

Section 13: DISPOSAL CONSIDERATIONS (GHS – Section 13)

Collect and 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.

Section 14: TRANSPORT INFORMATION

UN Identification Number/Shipping Name	UN3090 – Lithium Metal Batteries only UN3091 – Lithium Batteries in Equipment, or Lithium Batteries with Equipment			
UN38.3 TEST Summary Documents	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.			
Regulatory Status	Duracell Lithium Coin Batteries are manufactured and distributed according to current IATA/ICAO regulations. Duracell Lithium Coin Batteries pass the tests defined in UN model regulation section 38.3. 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 regulation 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, IMO, US DOT, ADR			
Air Transport IATA 66th edition, Packaging Instructions	PI 968 – Lithium Metal Batteries (Shipped Alone) PI 969 – Lithium Metal Batteries (Packed with Equipment) PI 970 – Lithium Metal Batteries (Contained in Equipment)			
Marine/Water Transport (IMDG) Special provisions	188, 230, 310,957			
Special Provisions (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 Procell packaging is compliant.			
Total Lithium weight per cell/batteries	**Total Lithium Content (grams); See below for each catalog number.**			
	Catalog No.	**Total Lithium Content(g)**	**Type**	**Total Cell/Battery Weight(g)**
	PC123	0.55	Cell	17
	PC CR2	0.26	Cell	11
	CR17450	0.62	Cell	24
Emergency Transportation Hotline	**CHEMTREC 24-Hour Emergency Response Hotline**			
	Within the United States, call: 1-800-424-9300			
	Outside of the United States, call: 1-703-527-3887 (Collect)			

Section 15: REGULATORY INFORMATION

GHS Article Exception	Section 1.3.2.1

COMPLIANCE	
Declarable Substances (IEC 62474 Criteria 1) EU REACH SVHC	1,2-Dimethoxyethane (CAS#110-71-4)
Applicable Battery Industry Standards	ANSI C18.3M Part 1, ANSI C18.3M Part 2, ANSI C18.4, IEC 60086-1, IEC 60086-2, IEC 60086-4
Mercury Free Battery (ANSI C18.4M <5ppm) **P.R.C. Provision on Mercury Content Limitation for Batteries (GB 8897.5-2005, MOD, Section 9.1(e)**	No Mercury No Mercury added. 无汞
P.R.C. Mercury Free Battery (GB 24427-2009) < 1ppm	Yes, No Mercury Added 无汞
Small Cell or Battery (ANSI C18.1M Part 2; IEC 60086-4)	Sizes: 1/3N, 123, 28L, CR2 fit inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide

Section 16: OTHER INFORMATION

A Lithium coin battery is a safe consumable product under recommended or normal usage conditions. It is not a dangerous substance or mixture. There are no PSDS supply requirements for Lithium Coin batteries by the Globally Harmonized System (GHS). Duracell is providing this PSDS as a service to its customers and other users who may make use of Lithium Coin batteries in the workplace. This Product Safety Data Sheet (PSDS) provides relevant battery information to retailers, consumers, OEMs, and other users requesting a GHS-compliant PSDS. Articles, such as batteries, are exempt from GHS PSDS 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.

Disclaimer: *This PSDS is intended to provide a summary of our knowledge and guidance regarding the use of this product. The information contained here has been compiled from sources considered by Duracell US Operations, Inc. 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 US Operations, Inc. assumed no responsibility for injury to the recipient or third parties, or any damage to any property resulting from the misuse of the product.*

********** End of PSDS **********